

KIT FOR RAPID HE STAINING OF FROZEN AND PARAFFIN-EMBEDDED SECTIONS

The kit contains:

BioClear New BioFix Histanol 100 Histanol 95 Deionized water Hematoxylin G2 Bluing reagent Eosin Y 2% alcoholic BioMount New Low



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| Trade name: | BIOCLEAR NEW | | | | | |
|---------------|--------------|----------------------|------------------|----------|---|--|
| Product code: | BCN-X** | Date of compilation: | 14 November 2022 | Version: | 7 | |

| 1.1. | Product identifier | | | | | |
|------|--|-----------------------------|---|-------------------------------|--|--|
| | Trade name: | BIOC | CLEAR NEW | | | |
| | Chemical name: | - | | | | |
| | Catalogue number: | BCN | -X** | | | |
| 1.2. | Relevant identified use | es of th | e substance or mix | ture and uses advised against | | |
| | Uses: Xy | | Xylene substitute u | ised as clearing agent. | | |
| | Uses advised against: On | | Only the identified | uses are advised. | | |
| | Reason why uses advised re | | The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and here is no reason to use it for other purposes. | | | |
| 1.3. | Details of the supplier of the safety data sheet | | | | | |
| | Supplier: | | BioGnost Ltd. | | | |
| | Address: | | Medjugorska 59, Zagreb | | | |
| | Telephone number: | | +385 1 2409997 | | | |
| | Telefax: | | +385 1 2404039 | | | |
| | e-mail of competent p | erson: | msds@biognc | msds@biognost.hr | | |
| | National contact: | | - | - | | |
| 1.4. | Emergency telephone | Emergency telephone numbers | | | | |
| | National Protection ar | nd Resc | ue Directorate: | 112 | | |
| | Medical information: | | | +385 1 2348 342 | | |
| | Other information: | | | - | | |

| SECTIO | SECTION 2. Hazards identification | | | | | |
|----------|------------------------------------|----------------------|----------------------|--|--|--|
| 2.1. | Classification of the substance or | [.] mixture | | | | |
| 2.1.1. | Classification according to Regul | ation (EC) No 127 | 72/2008 (CLP) | | | |
| | Hazard class and catego | ry code: | Warning statements*: | | | |
| | Aspir. Tox. 1 | | H304 | | | |
| 2.1.2. | Additional information | | | | | |
| | EUH066 | | | | | |
| * For fu | ll text of Hazard- and EU Hazard-s | tatements: see SI | ECTION 16 | | | |
| 2.2. | Label elements | | | | | |
| | Product identification: | BIOCLEAR NEW | 1 | | | |
| | Identification number: | - | | | | |
| | Authorisation number: | - | | | | |



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| | Hazard pictograms: | GHS08 |
|------|---|--|
| | Signal word: | Danger |
| | Hazard statement: | H304 May be fatal if swallowed and enters airways.EUH066 Repeated exposure may cause skin dryness or cracking. |
| | Precautionary statements: | P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor. P331 Do NOT induce vomiting. P405 Store locked up. P501 Dispose of contents and container in accordance with local regulations. |
| | Supplemetal hazard information (EU): | - |
| 2.3. | Other hazards | |
| | flammable mixtures. Vapour accu Health Hazards: Repeated exposure may cause ski Environmental Hazards: | |

| SECTION 3. Co | SECTION 3. Composition/information on ingredients | | | | | | | |
|-----------------------------|---|-----------------------------------|---|---|--|--|--|--|
| CAS/ EC/ Index number | REACH Registration No | Weight % content (or range) | Identification name | Classification according to Regulation (EC) No 1272/2008 (CLP) | | | | |
| - 920-901-0 - | 01-2119456810-40 | 100% | Hydrocarbons, C11- C13, isoalkanes, <2% aromatics | Aspir. tox. 1; H304 EUH066 | | | | |

| SECTIO | SECTION 4. First aid measures | | | | |
|--------|-----------------------------------|--|--|--|--|
| 4.1. | Description of first aid measures | | | | |
| | General notes: | If the suggested first aid measures do not prove sufficient, seek medical attention. | | | |



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| | Following inhalation: | | Immediately remove from further exposure. Get immediate medical assistance. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. Give supplemental oxygen, if available. If breathing has stopped, assist ventilation with a mechanical device. |
|------|-----------------------------------|-----------------------------------|---|
| | Following skin contact: | | Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse. |
| | Following eye contact: | | Flush thoroughly with water. If irritation occurs, get medical assistance. |
| | Following ingestion: | | DO NOT induce vomiting. Seek immediate medical attention. |
| | Self-protection of the f aider | irst | - |
| 4.2. | Most important sympto | oms ai | nd effects, both acute and delayed |
| | Following inhalation: | No iı | mportant symptoms or effects. |
| | Following skin contact: | No ii | mportant symptoms or effects. |
| | Following eye contact: | No important symptoms or effects. | |
| | Following ingestion: | No important symptoms or effects. | |
| 4.3. | Indication of any imme | diate | medical attention and special treatment needed |
| | If ingested, material ma | ay be a | aspirated into the lungs and cause chemical pneumonitis. Treat appropriately. |

| SECTIO | SECTION 5. Firefighting measures | | | | | |
|--------|--|---|--|--|--|--|
| 5.1. | Extinguishing media | | | | | |
| | Suitable extinguishing media: | Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames. | | | | |
| | Unsuitable extinguishing media: | Straight streams of water | | | | |
| 5.2. | Special hazards arising from the subs | tance or mixture | | | | |
| | Hazardous by products of fire: Sr | moke, fume, incomplete combustion products, carbon oxides. | | | | |
| 5.3. | Advice for firefighters | | | | | |
| | Evacuate the area. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel. | | | | | |
| 5.4. | Additional information | | | | | |
| | - | | | | | |

| SECTIC | DN 6. Accidental release measures |
|--------|---|
| 6.1. | Personal precautions, protective equipment and emergency procedures |



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| 6.1.1. | For non-emergency person | nel |
|--------|--|---|
| | Protective equipment: | See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders. |
| | Accident prevention metho | ds: Avoid contact with spilled material. Warn or evacuate occupants in surrounding and downwind areas if required, due to toxicity or flammability of the material. See Section 5 for fire fighting information. |
| | Emergency procedures: | See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. |
| 6.1.2. | For emergency responders: | |
| | H2S, or self contained breat level of exposure. If the exp possible or anticipated, SCI are recommended. Note: gle for emergency use. Chemic | face or full-face respirator with filter(s) for organic vapor and, when applicable, hing apparatus (SCBA) can be used depending on the size of spill and potential osure cannot be completely characterized or an oxygen deficient atmosphere is BA is recommended. Work gloves that are resistant to aromatic hydrocarbons oves made of polyvinyl acetate (PVA) are not water-resistant and are not suitable al goggles are recommended if splashes or contact with eyes is possible. Small < clothes are usually adequate. Large spills: full body suit of chemical resistant, nended. |
| 6.2. | Environmental precautions: | |
| | Large Spills: Dyke far ahead sewers, basements or confin | d of liquid spill for later recovery and disposal. Prevent entry into waterways, ned areas. |
| 6.3. | Methods and materials for | containment and cleaning up |
| 6.3.1. | Bunding, covering of drains; capping procedures: | Land Spill: Stop leak if you can do so without risk. Water Spill: Stop leak if you can do so without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants. |
| 6.3.2. | Cleaning up: | Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Recover by pumping or with suitable absorbent. |
| 6.3.3. | Other information: | Secure proper ventilation. Contact the responsible person; in case of larger spills and possible environmental pollution contact National Protection and Rescue (112). |
| 6.4. | Reference to other sections | |
| | See Section 7 for informatic See Section 8 for informatic See Section 13 for informat | n about personal protective equipment. |

| SECTIO | N 7. Handling and storage |
|--------|-------------------------------|
| 7.1. | Precautions for safe handling |



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| 7.1.1. | Protection measures | |
|--------|--|--|
| | Measures to prevent fire: | Avoid contact with skin. Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source). |
| | Measures to prevent aerosol and dust generation: | Secure proper ventilation. |
| | Measures to protect the environment: | When the material is handled in bulk, an electrical spark could ignite any flammable vapors from liquids or residues that may be present (e.g., during switch-loading operations). Use proper bonding and/or earthing procedures. |
| | Other measures: | This material is a static accumulator. A liquid is typically considered a nonconductive, static accumulator if its conductivity is below 100 pS/m (100x10E-12 Siemens per meter) and is considered a semiconductive, static accumulator if its conductivity is below 10,000 pS/m. Whether a liquid is nonconductive or semiconductive, the precautions are the same. A number of factors, for example liquid temperature, presence of contaminants, anti-static additives and filtration can greatly influence the conductivity of a liquid. |
| 7.1.2. | Advice on general occupational hygiene: | |
| | eating, drinking, and/or smoking. Routinely was | such as washing after handling the material and before h work clothing and protective equipment to remove nd footwear that cannot be cleaned. Practice good |
| 7.2. | Conditions for safe storage, including any incompa | atibilities |
| | Technical measures and storage conditions: | Keep in a cool and well-ventilated area. |
| | Packaging materials: | Teflon, polypropylene, stainless steel, carbon steel. |
| | Requirements for storage rooms and vessels: | The type of container used to store the material may affect static accumulation and dissipation. Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. |
| | Advices for storage equipment: | Storage containers should be earthed and bonded. Fixed storage containers, transfer containers and associated equipment should be earthed and bonded to prevent accumulation of static charge. |
| | Further information on storage conditions: | Suitable materials and coating are carbon steel, stainless steel, teflon, polyethylene, polypropylene. Unsuitable materials and coatings: butyl rubber, natural rubber, ethylene-proplyene-diene monomer (EPDM), polystyrene |



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| 7.3. | Specific end use(s) | |
|------|--|--|
| | Recommendations: | Section 1 informs about identified end-uses. |
| | Industrial sector specific solutions: | - |

| SECTION 8. Exposure controls/personal protection | | | | | | | |
|--|-----------------|------------------|--------------------------|-------------------------------------|-------------------|---------|-----------------------|
| 8.1. Control para | meters | | | | | | |
| Substance | | CAS | No | Occupation limit values, valu | /short term | Bio | ological limit values |
| | | | | ppm | mg/m ³ | | |
| Hydrocarbons, C11-C isoalkanes, <2% aron | | - | | 171* | 1200* | No i | nformation available |
| * Source - material sa | afety dat | a sheet provi | ded by the r | aw materials | supplier | | |
| Substance: - | | 1 | | | 1 | | |
| EC No: - | | CAS No: | - | | | | |
| DNEL | | | | | | | |
| | 1 | | Ir | ndustrial | | | |
| Route of exposure: | Route exposi | | Route of ex | (posure: | Route of ex | posure: | Route of exposure: |
| Oral | - | | - | | - | | - |
| Inhalation | - | | - | | - | | - |
| Dermal | - | | - | | - | | - |
| Critical physical para | meters: s | solubility, flan | nmability, co | orrosivity: | - | | |
| | | | C | onsumer | | | |
| Route of exposure: | Route exposi | | Route of ex | (posure: | Route of ex | posure: | Route of exposure: |
| Oral | - | | - | | - | | - |
| Inhalation | - | | - | | - | | - |
| Dermal | - | | - | | - | | - |
| PNEC | | | | | | | |
| Environmental protect | ction tar | get | | PNEC | | | |
| Fresh water No information a | | | tion available | 9 | | | |
| Freshwater sediments | | | No information available | | | | |
| Marine water | | | | No informa | tion available | 9 | |
| Marine sediments | | | | No information available | | | |
| Food chain | | | | No information available | | | |



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| Microorg | anisms in sewage treatment | | No information available | | |
|-------------|--|--|---|--|--|
| Soil (agrio | cultural) | | No information available | | |
| Air | | | No information available | | |
| | | | | | |
| 8.2. | Exposure controls | | | | |
| 8.2.1. | Appropriate engineering control | s | | | |
| | Substance/mixture related measures to prevent exposure during identified uses: | equipn | eat, drink or smoke in the workspace. Use personal protective nent. Wash hands after handling the product and before and/or drinking. | | |
| | Structural measures to prevent exposure: | • | ate ventilation should be provided so that exposure limits are ceeded. Use explosion-proff ventilation equipment. | | |
| | Organisational measures to prevent exposure: | - | ization of work in order to reduce other worker's influence work process. | | |
| | Technical measures to prevent exposure: | See Se | ction 7.2 | | |
| 8.2.2. | Personal protection equipment: | | | | |
| 8.2.2.1. | Eye and face protection: | e protection: If contact is likely, safety glasses with side shields are recomme | | | |
| 8.2.2.2. | Skin protection | | | | |
| | Hand protection: | are re style prote conti minir | blonged or repeated contact is likely, chemical-resistant gloves ecommended. If contact with forearms is likely, wear gauntlet- gloves. Nitrile, minimum 0.38 mm thickness or comparable ective barrier material with a high performance level for inuous contact use conditions, permeation breakthrough mum 480 minutes in accordance with CEN standards EN 420 EN 374. | | |
| | Other skin protection: | | olonged or repeated contact is likely, chemical, and oil tant clothing is recommended. | | |
| 8.2.2.3. | Respiratory protection: | conce healt selec regul consi Half- Com 405 p recor For h respi respi levels | gineering controls do not maintain airborne contaminant entrations at a level which is adequate to protect worker th, an approved respirator may be appropriate. Respirator tion, use, and maintenance must be in accordance with latory requirements, if applicable. Types of respirators to be idered for this material include: face filter respirator Type A filter material, European mittee for Standardization (CEN) standards EN 136, 140 and provide respirator masks and EN 149 and 143 provide filter mmendations. high airborne concentrations, use an approved supplied-air rator, operated in positive pressure mode. Supplied air rators with an escape bottle may be appropriate when oxygen s are inadequate, gas/vapour warning properties are poor, or purifying filter capacity/rating may be exceeded. | | |



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| 8.2.2.4. | Thermal hazards: | No information available. |
|----------|---|---|
| 8.2.3. | Environmental exposure controls | |
| | Substance/mixture related measures to prevent exposure: | Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions. |
| | Structural measures to prevent exposure: | Use modern equipment. |
| | Organisational measures to prevent exposure: | Adapt the work process to the required working conditions of the workplace. |
| | Technical measures to prevent exposure: | See Section 6 |

| • | Information on basic physical ar | nd chemical properties | |
|---|---|--|--------------------------|
| | | Value | Method |
| | Physical state: | liquid | No information available |
| | Colour: | colourless | No information available |
| | Odour/odour threshold: | faint/no information available | No information available |
| | Melting point / freezing point: | No information available | No information available |
| | Boiling point or initial boiling point and boiling range: | 188°C - 210 °C | ASTM D86 |
| | Flammability: | Not technically feasible | No information available |
| | Lower and upper explosion limit: | lower: 0.6 upper: 6.0 | Extrapolated |
| | Flash point: | 68 °C | ASTM D-93 |
| | Auto-ignition temperature: | 222 ℃ | ASTM E659 |
| | Decomposition temperature: | No information available | No information available |
| | pH: | Not technically feasible | No information available |
| | Kinematic viscosity: | 1.3 cSt (1.3 mm ² /sec) at 40 °C 1.74 cSt (1.74 mm ² /sec) at 20 °C | Calculated |
| | Solubility: | Negligible | No information available |
| | Partition coefficient n- octanol/water (log value): | > 4 | Estimated |
| | Vapour pressure: | 0.04 kPa (0.3 mm Hg) at 20 °C | No information available |
| | Density and/or relative density | 0.76 (at 15 °C) with respect to water | Calculated |
| | Relative vapour density: | 5.7 at 101 kPa (Air=1) | Calculated |
| | Particle characteristics: | Median particle size | Not applicable |



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| 9.2. | Other information | | | | |
|--------|--------------------------------------|----------|--|--------------------------|--|
| | Evaporation rate: | 0,04 (r | -butyl acetate = 1) | Calculated | |
| | Explosive properties: | None | | No information available | |
| | Oxidising properties: | None | | No information available | |
| | Density (at 15 °C): | 760 kg | /m ³ | ISO 12185 | |
| | Pour Point: | < -114 | °C | ASTM D5950 | |
| | Molecular Weight: | 165 g/ | mol | Calculated | |
| | Hygroscopic: | No | | No information available | |
| | Coefficient of Thermal Expansion: | 0.0009 | 8 per Deg C | Calculated | |
| SECTIO | ON 10.: Stability and reactivit | ÿ | | | |
| 10.1. | Reactivity: | | See sub-section below. | | |
| 10.2. | Chemical stability: | | The product is stable under normal conditions. | | |
| 10.3. | Possibility of hazardous reactions: | | Hazardous polymerization will not occur. | | |
| 10.4. | Conditions to avoid: | | Open flames and high energy ignition sources. | | |
| 10.5. | Incompatible materials: | | Strong oxidisers. | | |
| 10.6. | Hazardous decomposition p | roducts: | Material does not decompose at ambient temperatures. | | |

| | oxicological informatio | | | | |
|-----------------------|-----------------------------|-----------------|--|---------------------|------------------|
| 11.1. Inform | hation on hazard classes | as defined in I | Regulation (EC) No 1272/2 | 2008 | |
| Acute | toxicity: | | | : | |
| Route of exposure: | Method | Species | Effective Dose LD ₅₀ /LC or ATE _{mixture} | 50 Exposure time | Results |
| Oral: | No information available | rat | LD ₅₀ > 5000 mg/kg | - | Minimally toxic. |
| Dermal: | No information available | rabbit | LD ₅₀ > 5000 mg/kg | - | Minimally toxic. |
| Inhalation: | No information available | rat | LC ₅₀ > 5000 mg/ m ³ | 8 h | Minimally toxic. |
| | | | | | |
| Specifi | ic target organ toxicity - | single exposu | re (STOT-SE): | | |
| · · · | Specifi | c effects | Target or | gan | Note |
| Oral: | No information av | ailable | No information a | vailable - | |
| Dermal: | No information av | ailable | No information a | vailable - | |
| Inhalation: | No information av | ailable | No information a | vailable - | |



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| | Den X | Date of | compliation. | TTTTOVCINDC | | |
| Aspirati | ion hazard: | | aspiration, a no chemical proper and also if it is derived. Risks fro be controlled b substances class mplemented to | on-quantifiable ties (i.e. viscosity vomited followi om the physicoch y implementing ified as H304, th o control the asp | hazard deter) that can oco ng ingestion. nemical hazaro risk managen to following n piration hazar | lates to potential for mined by physico- cur during ingestion A DNEL cannot be ds of substances can ment measures. For neasures need to be d. Do not ingest. If tion. Do NOT induce |
| Irritatio | n and corrosion | | | | | |
| | Exp | osure time | Species | Evaluation | Method | Note |
| Skin corrosion/irritati | on No inform | ation available | - | Not irritating. | - | - |
| Serious eye damage/irritatio | n No inform | ation available | - | Not irritating. | - | - |
| Sensitiz Skin sensitization Respiratory | n: Not expect | ed to be a skin | sensitizer. iratory sensitize | r | | |
| sensitization: | | | | | | |
| | oms related to the | | | - | tics | |
| Oral exposure: | | | d enters airways | | | |
| Dermal exposure Inhalation exposure: | | <u> </u> | discomfort and d t/normal handlin | ng temperatures | • | |
| Eye exposure: | May cause m | ld, short-lasting | g discomfort to | eyes. | | |
| | | | | | | |
| Kepeate | ed dose toxicity (su | | onic, chronic) | | | |
| | Dose | Exposure time | Species | Method | Evaluation | Note |
| Subacute oral | No information available | No information available | No information available | No information available | No information available | - |
| Subacute dermal | No information available | No information available | No information available | No information available | No information available | - |



Chronic dermal

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| Subacute inhalation | No informatio available | n information available | No information available | No information available | No information available | - |
|-----------------------|-----------------------------------|----------------------------------|--------------------------------|--------------------------------|--------------------------------|------|
| Subchronic oral | No informatio available | n No information available | No information available | No information available | No information available | _ |
| Subchronic dermal | No informatio available | n No information available | No information available | No information available | No information available | - |
| Subchronic inhalation | No informatio available | n No information available | No information available | No information available | No information available | - |
| Chronic oral | No informatio available | n No information available | No information available | No information available | No information available | _ |
| Chronic dermal | No informatio available | n No information available | No information available | No information available | No information available | _ |
| Chronic inhalation | No informatio available | n No information available | No information available | No information available | No information available | _ |
| | | | | | | |
| Specific | target organ to | xicity - repeated | exposure (STOT- c effects | -RE): Target | organ | Note |
| Subacute oral | | No information | | | No information | |
| Subacute derma | | No information | available | No available | _ | |
| Subacute inhalat | ion | No information | available | No available | | |
| Subchronic oral | nic oral No information available | | No available | information | - | |
| Subchronic derm | nal | No information available | | No available | information | - |
| Subchronic inhal | ation | No information | available | No available | information | - |
| Chronic oral | | No information | available | No available | information | - |
| Chronic dermal | | No information | available | No | information | - |

No information available



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| Chronic | inhalation | No information ava | ilable | No available | information | - | |
|---------|--|---|---|--|---------------------------------------|--|--|
| | CMR effects (carcinoge | enicity; mutagenicity; | reproductive to | oxicity) | | | |
| | Carcinogenicity: | | | imilar mate | | d on test data for uivalent or similar to | |
| | Mutagenicity in-vitro: | | No information | on available | | | |
| | Genotoxicity: | | No information | on available | | | |
| | Mutagenicity in-vivo: | | No information | on available | | | |
| | Germ cell mutagenicity | <i>/</i> : | Not expected to be a germ cell mutagen. Based on test for structurally similar materials. Test(s) equivalent or si to OECD Guideline 471 473 474 476 478 479. | | | | |
| | Reproductive toxicity: | | Not expected to be a reproductive toxicant. Based on te data for structurally similar materials. Test(s) equivalent o similar to OECD Guideline 413 414 415. | | | | |
| | Summary of evaluat properties: | tion of the CMR | No information | on available | | | |
| 11.2. | Information on other h | nazards: | | | | | |
| 11.2.1. | Endocrine disrupting p | properties: | | | | | |
| | No known endocrine c that affect human heal | lisrupting properties | | | | | |
| 11.2.2. | Other information: | | | | | | |
| | Vapour concentration tract, may cause heada Prolonged and/or repe irritation and dermatiti vomiting may cause ch | aches and dizziness, a eated skin contact wit is. Small amounts of li | re anasthetic m h low viscosity quid aspirated | ay have oth materials m into the lur | ner central nervo ay defat skin re | ous system effects. sulting in possible | |

| SECTION 12. Ecological information | | | | | | | |
|------------------------------------|------------------|------------------|------------------------|--------------------------------|------------|-----------|--|
| 12.1. Toxicity | | | | | | | |
| Acute (short-term) toxicity | Dose | Exposure time | Species | Method | Evaluation | Note | |
| Fish: | LC ₅₀ | 96 hours | Oncorhynchus mykiss | No information available | - | 1000 mg/l | |
| Crustacea: | EC ₅₀ | 48 hours | Daphnia magna | No information available | - | 1000 mg/l | |



BIOGNOST[®] SAFEIT DATA STEEL According to Regulation (EC) No. 1907/2006 amended by Regulation (EU) No. 2020/878

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| Trade name: | | BIOCLEAR NEW | |
|---------------|---------|---------------------------------------|------------|
| Product code: | BCN-X** | Date of compilation: 14 November 2022 | Version: 7 |
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| Algae/aquatic plants: | IC ₅₀ | 72 hours | Pseudokirchne riella subcapitata | No information available | - | 1000 mg/l |
|----------------------------------|------------------|------------------|--|--------------------------------|------------|--------------|
| Other organisms: | - | - | - | - | - | - |
| Chronic (long- term) toxicity | Dose | Exposure time | Species | Method | Evaluation | Note |
| Fish: | LC ₅₀ | 96 hours | No information available | No information available | - | - |
| Crustacea: | EC ₅₀ | 48 hours | No information available | No information available | - | - |
| Algae/aquatic plants: | IC ₅₀ | 72 hours | No information available | No information available | - | - |
| Other organisms: | - | 21 day(s) | Daphnia magna | - | - | NOELR 1 mg/l |

12.2. Persistence and degradability Abiotic degradation

| | Degradation half-lives | Method | Evaluation | Note |
|--------------|--------------------------|--------------------------|--------------------------|------|
| Marine water | No information available | No information available | No information available | - |
| Fresh water | No information available | No information available | No information available | - |
| Air | No information available | No information available | No information available | - |
| Soil | No information available | No information available | No information available | - |

| % Degradation | Time (days) | Method | Evaluation | Note |
|--|-------------|--------------------------------------|-----------------------------|---|
| Percent Degraded 31.3 : similar material | 28 day (s) | Ready Biodegradability (water) | No information available | Expected to be inherently biodegradable |
| | | | | |
| | | | | |



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| Trade name: | | BIOCLEAR NEW | | | | |
|--------------|-----------------------|--------------|---------------------|------------------|------------|------|
| Product code | e: BCN-X** | Da | ate of compilation: | 14 November 2022 | Version: | 7 |
| | | | | | | |
| 12.3. Bioad | cumulative potentia | al | | | | |
| Octa | nol-water partition o | coefficient | (log Kow) | | | |
| Value | Concentration | pН | °C Method | Evaluation | No | te |
| | No information | | | No information | No informa | tion |

| > 4 | No inf availab | formation le | - | - Est | timated | No inform available | nation | No info availabl | ermation le |
|--|-------------------|-------------------------|------------------------|---------------------|--------------------------------|--------------------------------|--------------------------|------------------------|------------------|
| | | | | | | | | | |
| Bi | oconcentrat | ion Factor (| (BCF) | | | | | | |
| Value | e | Speci | es | Ν | 1ethod | Evaluati | on | | Note |
| No informa available | | o informatio ailable | on | No info availabl | rmation e | No informatio available | on | No inforr available | |
| ····· | | | | | | | | | |
| Cł | hronic ecoto | xicity | | | | 1 | 1 | | |
| ١ | Value | Dos | - · · | oosure time | Species | Method | Eva | luation | Note |
| Chronic toxicity on fish | | LC ₅₀ | No infori availa | mation able | No information available | No information available | | | Not expected. |
| Chronic toxicity on crustacea (Daphnia) | | EC ₅₀ | No infori availa | mation able | No information available | No information available | No information available | | Not expected. |
| | | 1 | 1 | 1 | | | 1 | | 1 |
| 12.4. M | lobility in soi | il | | | | | | | |
| Kr | nown or pree | dicted distr | ibution in | environm | ental compart | ments: | | | |
| Sı | urface tensio | on: | | | | | | | |
| | Value | °C | | Concentra | ation | Method | | N | ote |
| N | _ | | | | | | | ghly volati | le, will |

| Value | e | concentration | Wiethod | Note |
|--------------------------------|-----------------------------|-----------------------------|-----------------------------|--|
| No information available | No information available | No information available | No information available | Highly volatile, will partition rapidly to air. Not expected to partition to sediment and wastewater solids. |
| | | | | |
| | | | | |



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| Trade name: | | BIOCLEAR NEW | | | | |
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| | Adsorption / desorption | | | | |
|----------|---|------------------------------|--------------------------------|-----------------------------|---------------|
| Transpo | A/D coefficient Henry's constant | log Kow | Evaporation rate | Method | Note |
| Soil-Wa | ter No information available | No information available | No information available | No information available | - |
| Water-A | Air No information available | No information available | No information available | No information available | - |
| Soil-Air | No information available | No information available | No information available | No information available | - |
| 12.5. | Results of PBT and vPvB assessm | ent | | | |
| | Material does not meet the Read | | T or vPvB. | | |
| | | | | | |
| 12.6. | Endocrine disrupting properties | | | | |
| | No known endocrine disrupting | properties that affect the e | environment. | | |
| | | | | | |
| 12.7. | Other adverse effects | | | | |
| | No adverse effects are expected | | | | |
| | | | | | |
| | N 13. Disposal considerations | | | | |
| 13.1. | Waste treatment methods | | | | |
| | | | | | |
| 13.1.1. | Product/Packaging disposal: | | | <u> </u> | |
| | Submit for disposal to the I Protection. Do not dispose of collectors authorized by the m | the product's remains into | the sewage s | ystem. Submit the re | emains to the |
| | | | | | |
| 13.1.2. | Waste codes/waste designatio | ns according to Law: | | | |
| | The European Waste Catalog constituents. Determine the EV the hazardous waste list establ | /C according to the criteria | provided in th | e European Waste C | |
| 40.40 | | | | | |
| 13.1.3. | Waste treatment – relevant inf | | | | |
| | Disposal recommendations ba applicable laws and regulation | | • | | with current |



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| Trade name: | | BIOCL | EAR NEW | |
|---------------|---------|----------------------|------------------|------------|
| Product code: | BCN-X** | Date of compilation: | 14 November 2022 | Version: 7 |

| 13.1.4. | Sewage disposal – relevant ir | nformation: | | | |
|-----------|---|---|--|--|--|
| | | ng in an enclosed controlled burner for fuel value or disposal by supervised peratures to prevent formation of undesirable combustion products. | | | |
| | | | | | |
| 13.1.5. | Other disposal recommenda | tions: | | | |
| | dangerous. Do not attempt to be completely drained and so should be taken for recycling in accordance with governmo GRIND, OR EXPOSE SUCH (| (where applicable): Empty containers may contain residue and can be to refill or clean containers without proper instructions. Empty drums should afely stored until appropriately reconditioned or disposed. Empty containers g, recovery, or disposal through suitably qualified or licensed contractor and ental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER Y MAY EXPLODE AND CAUSE INJURY OR DEATH. | | | |
| 13.1.6. | Relevant Community provision | ons: | | | |
| | - | | | | |
| | | | | | |
| SECTION | 14. Transport information | | | | |
| - | Transporting/shipment by road | d (ADR) | | | |
| UN numb | per: | Not subject to transport regulations. | | | |
| UN prope | er shipping name: | - | | | |
| Transport | t hazard class(es): | - | | | |
| Packing g | jroup: | - | | | |
| Environm | ental hazards: | - | | | |
| Special p | recautions for user: | - | | | |
| - | Transporting/shipment by rail | (RID) | | | |
| UN numb | oer: | Not subject to transport regulations. | | | |
| UN prope | er shipping name: | - | | | |
| Transport | t hazard class(es): | - | | | |
| Packing g | jroup: | - | | | |
| Environm | ental hazards: | - | | | |
| Special p | recautions for user: | - | | | |
| - | Transporting/shipment by inla | nd waterways (ADN) | | | |
| UN numb | per: | Not subject to transport regulations. | | | |
| UN prope | er shipping name: | - | | | |
| Transport | t hazard class(es): | - | | | |
| Packing g | jroup: | - | | | |
| Environm | ental hazards: | - | | | |



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| Trade name: | | BIOCL | EAR NEW | |
|---------------|---------|----------------------|------------------|------------|
| Product code: | BCN-X** | Date of compilation: | 14 November 2022 | Version: 7 |

| Special precautions for user: | - |
|--|---------------------------------------|
| Transporting/shipment by sea (IN | MDG) |
| UN number: | Not subject to transport regulations. |
| UN proper shipping name: | - |
| Transport hazard class(es): | - |
| Packing group: | - |
| Environmental hazards: | - |
| Special precautions for user: | - |
| Transport in bulk according to Annex II of MARPOL73/78 and the IBC code: | - |
| Transporting/shipment by air (IC | AO-TI/IATA-DGR) |
| UN number: | Not subject to transport regulations. |
| UN proper shipping name: | - |
| Transport hazard class(es): | - |
| Packing group: | - |
| Environmental hazards: | - |
| Special precautions for user: | - |
| | |
| Further information: - | |

| SECTIO | ON 15. Regulatory info | rmation | | | |
|--------|--|---------------------|--|--|--|
| 15.1. | Safety, health and environmental regulations/legislation specific for the substance or mixture | | | | |
| | EU regulations | | | | |
| | Authorisations and/or | restrictions on use | | | |
| | Authorisations: | - | | | |
| | Restrictions: | - | | | |



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| Trade name: | | | | Page 18 | 51 19 | | | | |
|-----------------------|------------------------|-----------------|---|---|--|--|--|--|--|
| | | | BIOCLEAR NEW | | | | | | |
| Product code: BCN-X** | | BCN-X** | Date of compilation: 14 November 2022 | Version: | 7 | | | | |
| | | regulations: | Regulation (EC) No 1907/2006 of the European Parliament a 18 December 2006 concerning the Registration, Evaluatio Restriction of Chemicals (REACH), establishing a European amending Directive 1999/45/EC and repealing Council Regula and Commission Regulation (EC) No 1488/94 as well as Council and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC Directive 2004/42/CE of the European Parliament and of the Co on the limitation of emissions of volatile organic compounds du solvents in certain paints and varnishes and vehicle refinishing p Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament an December 2008 on classification, labelling and packaging of sul amending and repealing Directives 67/548/EEC and 1999/2 Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the mar dangerous substances, mixtures and articles (Annex XVII); | on, Authori an Chemica ation (EEC) il Directive and 2000/2 ouncil of 2 ⁻ ue to the us products and f the health d of the Co bstances ar 45/EC, and rket and us | sation an No 793/9 76/769/EE 21/EC; April 200 e of organi d amendin a and safet buncil of 1 ad mixture: amendin e of certai | | | | |
| | Informati guideline | - | 9/13/EC about limitation of emissions of volatile organic con | mpounds | (VOC- | | | | |
| | National | legislation: | Chemicals Act, Regulation on classification, packaging an dangerous substances, Ordinance on occupational expose on biological limit values, Regulation on categories, type of waste with a waste catalog and list of hazardous waste writing Material safety data sheet, Transport of Hazardou | sure limit s and clas e, Ordinan | values and sification ce on | | | | |
| 15.2. | Chemical | safety assessme | nt | | | | | | |
| | _ | , | | | | | | | |

| SECTIO | SECTION 16. Other information | | | | | |
|--------|-------------------------------|--|--|--|--|--|
| 16.1. | Indication of changes: | Composition: Component Table for REACH information was modified. Section 09 median particle size information was added. Section 09: Freezing Point °C(°F) information was deleted. Section 09: Melting Point °C (F) information was deleted. Section 11 EU Annex II Endocrine Disruptor Data information was added. Section 12 EU Annex II Endocrine Disruptor Data information was added. Section 2 EU Annex II Endocrine Disruptor Data information was added. Section 9 melting and freezing points information was added. | | | | |



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SAFETY DATA SHEET According to Regulation (EC) No. 1907/2006 amended by Regulation (EU) No. 2020/878

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| Trade | Trade name: | | BIOCL | EAR NEW | | |
|-----------------------|----------------------|----------------------------------|---|--|--|--|
| Product code: BCN-X** | | | Date of compilation: | 14 November 2022 | Version: 7 | |
| 16.2. | Abbrevi acronyn | | ADR: Accord relatif au trans route (European Agreement Goods by Road) IMDG: International Maritime IATA: International Air Transp GHS: Globally Harmonised S EINECS: European Inventory o CAS: Chemical Abstracts Se DNEL: Derived No-Effect Lev LC50: Lethal concentration, LD50: Lethal dose, 50 percen PBT: Persistent, Bioaccumu vPvB: very Persistent and ve | Concerning the Internation Code for Dangerous Goods oort Association System of Classification and L If Existing Commercial Chem rvice (division of the America el (UK REACH) 50 percent nt lative and Toxic | al Carriage of Dangerous abelling of Chemicals ical Substances | |
| 16.3. | | ature references rce of data: | - | | | |
| 16.4. | | ation and procedure 108 (CLP) | e used to derive the classificat | tion for mixture according | to Regulation (EC) | |
| Classifi | cation | | Classification procedure | | | |
| _ | | | - | | | |
| 16.5. | Relevan | t H statements (nun | nber and full text) | | | |
| | H: 30 | 4 | May be fatal if swallowed a | • | | |
| | (EUH066) | | Repeated exposure may cause skin dryness or cracking. | | | |
| 16.6. | Training | advice: | - | | | |
| 16.7. | Further information: | | ** "X" in the product code the product) We are not responsible for instructions for use or impr material safety data sheet. | consequences in case of | failure to comply with | |

ANNEX: Exposure scenario resulting to Chemical safety assessment



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| Trade name: | | I | BIOFIX | | |
|---------------|--------|----------------------|-------------|----------|---|
| Product code: | BF-X** | Date of compilation: | 22 Dec 2022 | Version: | 5 |

| 1.1. | Product identifier | | | | |
|------|---|--|-----------------|--|--|
| | Trade name: | BIOFIX | | | |
| | Chemical name: | - | | | |
| | Catalogue number: | BF-X** | | | |
| 1.2. | Relevant identified uses of the substance or mixture and uses advised against | | | | |
| | Uses: | Methyl alcohol-based fixative for cryostat sections. | | | |
| | Uses advised against: | Only the identified uses are advised. | | | |
| | Reason why uses advised against: | The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes. | | | |
| 1.3. | Details of the supplier of the safety data sheet | | | | |
| | Supplier: | BioGnost Ltd. | | | |
| | Address: | Medjugorska | 59, Zagreb | | |
| | Telephone number: | +385 1 24099 | 97 | | |
| | Telefax: | +385 1 24040 | 39 | | |
| | e-mail of competent person: | msds@biognost.hr | | | |
| | National contact: | | | | |
| 1.4. | Emergency telephone numbers | | | | |
| | National Protection and Rescue | e Directorate: | 112 | | |
| | Medical information: | | +385 1 2348 342 | | |
| | Other information: | | _ | | |

| SECTIO | ON 2. Hazards identification | | | | |
|--------|--|------|--|--|--|
| 2.1. | Classification of the substance or mixture | | | | |
| 2.1.1. | Classification according to Regulation (EC) No 1272/2008 (CLP) | | | | |
| | Hazard class and category code: Hazard statement*: | | | | |
| | Flam. liq. 2 | H225 | | | |
| | Acute Tox. 3 | H301 | | | |
| | Acute Tox. 3 | H311 | | | |
| | Skin Corr. 1B | H314 | | | |
| | Skin Sens. 1B | H317 | | | |
| | Acute Tox. 3 | H331 | | | |
| | Muta 2 | H341 | | | |
| | STOT SE 1 | H370 | | | |
| 2.1.2. | Additional information | | | | |



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| Trade name:Product code:BF-X**Date: | | | | BIOFIX | | |
|-------------------------------------|-----------------|-------------------------|--|---|--|---|
| | | Date of compilation: | 22 Dec 2022 | Version: | 5 | |
| | No knowi | f PBT and vP | Properties: srupting properties vB assessment: According to | o the results of its assess | ment, this substa | ance is not a |
| * For f | full text of Ha | azard- and EU | Hazard-statements: see SECT | ION 16 | | |
| 2.2. | Label eler | | | | | |
| | Product id | dentification: | BIOFIX | | | |
| | Identificat | tion number: | - | | | |
| | Authorisa | tion number: | - | | | |
| | Hazard pi | ctograms: | GHS02 GHS05 | GHS06 GHS08 | | |
| | Signal wo | rd: | Danger | | | |
| | Hazard st | atements: | H301+H311+H331 T H314 Causes sever H317 May cause a H341 Suspected o H350 May cause c | nable liquid and vapor. Toxic if swallowed, in cor Te skin burns and eye da n allergic skin reaction. If causing genetic defects ancer. age to organs (eyes). | mage. | if inhaled. |
| | Precautio | nary statemer | smoke. P301+P310 IF SWAL P302+P352 IF ON SI P304+P340 IF INHAI position comfortable P305+P351+P338 IF minutes. Remove co rinsing. | rom heat/sparks/open fl LOWED: Immediately ca (IN: Wash with plenty of ED: Remove victim to fr e for breathing. IN EYES: Rinse cautious ntact lenses, if present a ed or concerned: Call a l | II a POISON CEN soap and water. esh air and keep ly with water for nd easy to do. Co | TER/doctor. at rest in a several ontinue |
| | Suppleme | etal hazard on (EU): | - | | | |



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| Trade name: | BIOFIX | | | | |
|---------------|--------|----------------------|-------------|------------|--|
| Product code: | BF-X** | Date of compilation: | 22 Dec 2022 | Version: 5 | |
| | • | | * | | |

| 2.3. | Other hazards |
|------|---------------|
| | - |

| SECTION 3. Co | SECTION 3. Composition/information on ingredients | | | | | |
|--|---|-----------------------------------|---------------------|--|--|--|
| CAS/ EC/ Index number | REACH Registration No | Weight % content (or range) | Identification name | Classification according to Regulation (EC) No 1272/2008 (CLP) | | |
| 67-56-1/ 200-659-6/ 603-001-00-X | - | 80 – 85 % | methanol | Flam. liq. 2, H225 Acute tox. 3, H331 Acute tox. 3, H311 Acute tox. 3, H301 STOT-SE 1, H370 | | |
| 50-00-0/ 200-001-8/ 605-001-00-5 | - | 9 – 10 % | formaldehyde, 37% | Acute tox. 3; H301 Acute tox. 3; H311 Skin corr. 1B; H314 Skin sens. 1; H317 Acute tox. 3; H331 Muta. 2; H341 Carc. 1B; H350 | | |
| 64-19-7/ 200-580-7/ 607-002-00-6 | - | 4 – 5 % | acetic acid, 99% | Flam. Liq. 3; H226 Skin corr. 1A; H314 | | |

| 4.1. | Description of first aid n | neasures |
|------|------------------------------------|--|
| | General notes: | - |
| | Following inhalation: | Carry the afflicted person out for fresh air, place them in half lying position and calm them down. If breathing stops, immediately apply artificial respiration. Rush the afflicted person to the hospital while keeping them in lateral recumbent position in order to keep the airways clear. |
| | Following skin contact: | Remove contaminated clothing. Wash with plenty of water and soap for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain. |
| | Following eye contact: | Rinse out with plenty of water with the eyelid held wide open for at least 20 minutes. If the symptoms remain, immediately call in ophthalmologist. |
| | Following ingestion: | Rinse with water and expectorate. Make the afflicted person drink 1 - 2 glasses of water (200 - 400 ml). The afflicted person should drink one glass (100 ml) of 40% ethanol (adult dose). Place the afflicted person in the half lying position and rush them to hospital while constantly calming them down. If the afflicted person is vomiting, there may be risk of pulmonary aspiration. |
| | Self-protection of the first aider | Avoid direct contact with the chemical; use appropriate protective equipment described in Section 8. |
| 4.2. | Most important sympto | ms and effects, both acute and delayed |



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| Trade name: | BIOFIX | | | | |
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| Product code: | BF-X** | Date of compilation: | 22 Dec 2022 | Version: | 5 |

| | Following inhalation: | Airways irritation and possible lung damage due to high levels of vapor concentration. Absorption may cause toxic effects. |
|------|-------------------------|--|
| | Following skin contact: | Minimum level of irritation, defatting; prolonged exposure may cause absorption and greater possibility of delayed systemic effects. |
| | Following eye contact: | Mild to moderate irritation due to vapor, conjunctivitis, later chemosis, lesser possibility of cornea damage. Visual impairments may occur later, after the absorbtion. |
| | Following ingestion: | Stomach and bowel irritation, feeling unwell, vomiting, strong abdominal pain. Absorption may cause toxic effects. |
| 4.3. | Indication of any immed | liate medical attention and special treatment needed |
| | - | |

| SECTIO | ECTION 5. Firefighting measures | | | | | |
|--------|---|--|--|--|--|--|
| 5.1. | Extinguishing media | | | | | |
| | Suitable extinguishing media: | water spray, foam, dry powder, CO ₂ | | | | |
| | Unsuitable extinguishing media: | No information available | | | | |
| 5.2. | Special hazards arising from the substance or mixture | | | | | |
| | Hazardous byproducts of fire: | No information available | | | | |
| 5.3. | Advice for firefighters | | | | | |
| | Use a self-contained open-circuit cor | npressed air breathing apparatus and fireproof clothing. | | | | |
| | Cool closed containers exposed to fin | e with water spray, in order to prevent explosion. | | | | |
| 5.4. | Additional information | | | | | |
| | Remove sources of heat and ignition. | | | | | |
| | Do not contaminate the environment | t with extinguishing media. | | | | |

| SECTIO | SECTION 6. Accidental release measures | | | | | |
|--------|--|-----------------------------------|--|--|--|--|
| 6.1. | Personal precautions, protective ec | quipment and emergency procedures | | | | |
| 6.1.1. | For non-emergency personnel | | | | | |
| | Protective equipment: Use personal protective equipment (see Section 8). | | | | | |
| | Accident prevention methods: Accident prevention methods: Evacuate members of all non-essential personne members without protective equipment. Do not brea ensure adequate ventilation and avoid contact with s Remove all sources of sparks and ignition. Do not small | | | | | |
| | Emergency procedures: | Mark the area using proper signs. | | | | |
| 6.1.2. | For emergency responders: | | | | | |
| | Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8). | | | | | |
| 6.2. | Environmental precautions: | | | | | |



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| Trade name: | BIOFIX | | | | |
|---------------|--------|----------------------|-------------|------------|--|
| Product code: | BF-X** | Date of compilation: | 22 Dec 2022 | Version: 5 | |

| | Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112. | | | | |
|--------|---|---|--|--|--|
| 6.3. | Methods and material | s for containment and cleaning up | | | |
| 6.3.1. | Bunding, covering of drains; cappingSand or clay barriers.procedures:Sand or clay barriers. | | | | |
| 6.3.2. | For cleaning: Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water. | | | | |
| 6.3.3. | Other information: | Do not use tools that may cause sparks. | | | |
| 6.4. | Reference to other sections | | | | |
| | See Section 7 for information about secure handling. | | | | |
| | See Section 8 for information about personal protective equipment. | | | | |
| | See Section 13 for info | rmation about containment. | | | |

| SECTIO | ON 7. Handling and storage | | | | | |
|--------|---|---|---|--|--|--|
| 7.1. | Precautions for safe handling | | | | | |
| 7.1.1. | Protection measures | | | | | |
| | Measures for fire prevention: | | Use in well ventilated storage rooms. Keep away from sources of heat and ignition. Carry out measures for preventing static electricity. | | | |
| | Measures for preventing spray and dust formation | es for preventing spray and dust formation: | | | | |
| | Environmental precautions: | | Prevent spilling into the sewage system and waterways. | | | |
| | Other measures: | | - | | | |
| 7.1.2. | Advice on general occupational hygiene: | | | | | |
| | Do not eat, drink or smoke in the workspace. Thor | oughly wash | hands after work and before eating. | | | |
| 7.2. | Conditions for safe storage, including any incomp | atibilities | | | | |
| | Technical measures and storage conditions: | Keep in tightly closed and upright set containers in a well-ventilated storage rooms, and away from source of heat, sunlight, and other incompatible substances | | | | |
| | Packaging materials: | Manufactur | er's original packaging. | | | |
| | Requirements for storage rooms and vessels: | Keep away tightly close | from food and drink. Keep the containers ed. | | | |



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| Trade name: | | BIOFIX | | | | | | |
|---------------|--------|----------------------|------------------------|-----------------------------|--|--|--|--|
| Product code: | BF-X** | Date of compilation: | 22 Dec 2022 | Version: 5 | | | | |
| | | | The storage must be ma | de of hard material; floors | | | | |

| | Advices for storage equipment: | must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation. |
|------|--|---|
| | Further information on storage conditions: | Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 10). |
| 7.3. | Specific end use(s) | |
| | Recommendations: | - |
| | Industrial sector specific solutions: | - |

| SECTION 8. Exposure controls/personal protection | | | | | | | |
|---|-----------------------|-------------------------------------|--|------------|---|--|--|
| 8.1. Control para | imeters | | | | | | |
| Substance | CAS No | | Occupational exposure limit values/short term values | | ological limit values | | |
| | | ppm | mg/m ³ | | | | |
| Methanol | 67-56-1 | 200/- | 260/- | - | | | |
| Formaldehyde | 50-00-0 | 0.3/0.6 | 0.37/0.74 | - | | | |
| Acetic acid | 64-19-7 | 10/20 | 25/50 | - | | | |
| * For all results pertai consideration | ning creatinine lev | els, creatinine concentrati | ion < 0.5 g/l an | d > 3.0 g/ | 'l may not be taken into | | |
| Substance: - | | | | | | | |
| EC No: - | No: - CAS No: - | | | | | | |
| DNEL | | | | | | | |
| | | Industrial | | | | | |
| Route of | Acute | Acute | Chron | ic | Chronic | | |
| exposure: | effect local | effect systemic | effect local | | effect systemic | | |
| Oral | - | - | - | | - | | |
| Inhalation (formaldehyde) 260 mg/m ³ (methanol) | | 260 mg/m ³ (methanol) | 0.375 mg/m ³ (formaldehyde) 260 mg/m ³ (methanol) | | 9 mg/m ³ (formaldehyde) 260 mg/m ³ (methanol) | | |
| Dermal - | | 40 mg/kg (methanol) | 0.037 mg/cm ² (formaldehyde) | | 240 mg/kg (formaldehyde) 40 mg/kg (methanol) | | |
| Critical physical parar | meters: solubility, f | lammability, corrosivity: | | - | | | |
| | | Consumer | | | | | |



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| Trade name: | | | | |
|---------------|--------|----------------------|-------------|------------|
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| Route of exposure: | Acute effect local | Acute effect systemic | | Chronic effect local | Chronic effect systemic | |
|-----------------------|------------------------|------------------------------------|--|---|---|--|
| Oral | - | - 8 mg/kg (meth | | - | 4.1 mg/kg (formaldehyde) 8 mg/kg (methanol) | |
| Inhalation | 50 mg/m³ (methanol) | 50 mg/m ³ (methanol) | | 0.1 mg/m ³ (formaldehyde) 50 mg/m ³ (methanol) | 3.2 mg/m ³ (formaldehyde) 50 mg/m ³ (methanol) | |
| Dermal | - | 8 mg/kg (methanol) | | 0.012 mg/cm ² (formaldehyde) | 102 mg/kg (formaldehyde) 8 mg/kg (methanol) | |
| PNEC | | | | | | |
| Environmental prote | ction target | | PNEC | | | |
| Fresh water | | | 0.44 mg/l (formaldehyde) 154 mg/l (methanol) | | | |
| Freshwater sediment | S | | 2.3 mg/kg (formaldehyde) 570.4 mg/kg (methanol) | | | |
| Marine water | | | 0.44 mg/l (formaldehyde) 15.4 mg/l (methanol) | | | |
| Marine sediments | | | 2.3 mg/kg (formaldehyde) | | | |
| Food chain | | | No information available | | | |
| Microorganisms in se | ewage treatment | | 0.19 mg/l (formaldehyde) 100 mg/l (methanol) | | | |
| Soil (agricultural) | | | 0.2 mg/kg (formaldehyde) 23.5 mg/kg (methanol) | | | |
| Air | | | No information available | | | |
| | | | | | | |
| 8.2. Exposur | e controls | | | | | |

| 0.2. | | | | | |
|--------|---|---|--|--|--|
| 8.2.1. | Appropriate engineering measures | | | | |
| | Substance/mixture related measures to prevent exposure during identified uses: | Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace. | | | |
| | Structural measures to prevent exposure: | No information available | | | |
| | Organisational measures to prevent exposure: | Organization of work in order to reduce other worker's influence during work process. | | | |



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|------------------|---------------------------------|---|---|---|---|----------|---|--|--|
| Trade na | me: | BIOFIX | | | | | | | |
| Product | code: | BF-X** | Date o | f compilation: | 22 Dec 2022 | Version: | 5 | | |
| | | iical measures nt exposure: | to | Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. | | | | | |
| 8.2.2. | Perso | nal protection | equipmer | | | | | | |
| 8.2.2.1. | Eye aı | nd face protec | tion: | | afety glasses. Use equipr der appropriate governn | • • | | | |
| 8.2.2.2. | Skin p | protection: | | | | | | | |
| Hand protection: | | | (EU) 2016/425 and Full contact: Glove ma Glove thic Time unti Splash contact: Gloves ma Glove thic | oves have to satisfy the s d the related standard El terial: nitrile rubber ckness: 0.40 mm l perforation: > 480 min aterial: polychloroprene ckness: 0.65 mm l perforation: >240 min | • | gulation | | | |
| | Other | skin protectic | on: | Complete suit protecting against chemicals (EN 340) The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace and shoes that cover the entire foot. | | | | | |
| 8.2.2.3. | Respi | ratory protecti | on: | type: ABEK (EN 14 | vers the entire face (EN 1 I3). Use respirators and c by the standard (EU). | | | | |
| 8.2.2.4. | Thern | nal hazards: | | No information av | vailable | | | | |
| 8.2.3. | Environmental exposure controls | | | | | | | | |
| | | ance/mixture i ures to preven sure: | | See Section 6 | | | | | |
| | | ural measures nt exposure: | to | Use modern equipment. | | | | | |
| | | nisational mea nt exposure: | sures to | Adapt the work process to the required working conditions of the workplace. | | | | | |
| | | iical measures nt exposure: | to | See Section 6 | | | | | |

| SECTIC | SECTION 9. Physical and chemical properties | | | | | | | | |
|--------|---|--------|--------------------------|--|--|--|--|--|--|
| 9.1. | Information on basic physical and chemical properties | | | | | | | | |
| | | Value | Method | | | | | | |
| | Physical state: | liquid | No information available | | | | | | |



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| Trade name: | | | BIOFIX | | | | |
|---------------|--------|----------------------|-------------|------------|--|--|--|
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| Other information | 3 | |
|---|---|--------------------------|
| Particle characteristics: | No information available | No information available |
| Relative vapour density: | No information available | No information available |
| Density and/or relative density | No information available | No information available |
| Vapour pressure: | No information available | No information available |
| Partition coefficient n- octanol/water (log value): | No information available | No information available |
| Solubility: | No information available | No information available |
| Kinematic viscosity: | No information available | No information available |
| pH: | No information available | No information available |
| Decomposition temperature: | No information available | No information available |
| Auto-ignition temperature: | No information available | No information available |
| Flash point: | 12 °C | No information available |
| Lower and upper explosion limit: | lower: 6 % (V) methanol upper: 36.5 % (V) methanol | No information available |
| Flammability: | No information available | No information available |
| Boiling point or initial boiling point and boiling range: | No information available | No information available |
| Melting point / freezing point: | No information available | No information available |
| Odour/odour threshold: | methanol/no information available | No information available |
| Colour: | colorless | No information available |

| SECTIO | SECTION 10.: Stability and reactivity | | | | | | | | |
|--------|---------------------------------------|---|--|--|--|--|--|--|--|
| 10.1. | Reactivity: | See subsections 10.3 through 10.5. | | | | | | | |
| 10.2. | Chemical stability: | The product is chemically stable under standard ambient conditions of storing and using (room temperature). | | | | | | | |
| 10.3. | Possibility of hazardous reactions: | With halogen elements, oxidizing substances, reducing agents, acids. | | | | | | | |
| 10.4. | Conditions to avoid: | Sources of heat, sparks, and ignition. | | | | | | | |
| 10.5. | Incompatible materials: | Halogen elements, oxidizing substances, reducing agents, acids. | | | | | | | |
| 10.6. | Hazardous decomposition products: | Irritating vapors and gases. | | | | | | | |

| SECTIO | SECTION 11. Toxicological information | | | | | | | | | |
|--------|---------------------------------------|--|--|--|--|--|--|--|--|--|
| 11.1. | Information on toxicological effects | | | | | | | | | |
| | Acute toxicity: | | | | | | | | | |



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|----------------------|--|----------------------|-------------|----------|---|--|--|
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| Route of exposure: | Method | Species | Effective Dose LD ₅₀ /LC ₅₀ or ATE _{mixture} | Exposure time | Results |
|---------------------------------|---|-----------------|---|-------------------|----------------------------|
| Oral: | No information available | rat | LD ₅₀ | - | 125.13 mg/kg (methanol) |
| Dermal: | No information available | rabbit | LD ₅₀ | - | 375.13 mg/kg (methanol) |
| Inhalation: | No information available | rat | LC ₅₀ | 4 h | 3.88 mg/l (methanol) |
| Specific | target organ toxicity - single | e exposure (S1 | fot-se): | | |
| | Specific effect | S | Targ | et organ | Note |
| Oral: | No information available | | No informat | ion available | - |
| Dermal: | No information available | | No informat | _ | |
| Inhalation: | No information available | | No informat | - | |
| Irritatio | n and corrosion | | | | |
| | Exposure time | Species | Evaluatio n | Method | Note |
| Skin corrosion/irritatio | on - | - | - | | |
| Serious eye damage/irritatio | n - | - | - | | |
| Sensitiz | ation | | | | |
| Skin sensitizatior | n: Does not cause sensit | tization. | | | |
| Respiratory sensitization: | No information availa | ıble | | | |
| Sympto | ms related to the physical, cl | nemical and to | oxicological ch | aracteristics: | |
| Oral exposure: | Stomach and bowel irritati cause toxic effects. | ion, feeling ur | well, vomiting, | , strong abdomina | l pain. Absorption may |
| Dermal exposure: | Minimum level of irritation possibility of delayed systemetry | | rolonged expo | sure may cause ab | sorption and greater |



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| Trade name: | | | B | IOFIX | | | |
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| Inhalation exposure: | - | on and possible lung y cause toxic effects. | - | ue to hi | igh levels of vap | oor concentrat | ion. |
| Eye exposure: | | ate irritation due to v e. Visual impairments | • • | | | • | oility of |
| | | | | | | | |
| Repeate | ed dose toxicity (s | ubacute, subchronic, | , chronic) | | 1 | 1 | |
| | Dose | Exposure time | Species | | Method | Evaluation | Note |
| Subacute oral | No informatio available | n No information available | No inforr available | nation | No information available | No information available | - |
| Subacute dermal | No informatio available | n No information available | n No information available | | No information available | No information available | - |
| Subacute inhalation | No informatio available | n No information available | on No information available | | No information available | No information available | - |
| Subchronic oral | No informatio available | No information No informati available available | | nation | No information available | No information available | - |
| Subchronic dermal | No informatio available | No information No inform available available | | nation | No information available | No information available | - |
| Subchronic inhalation | No informatio available | n No information available | No inforr available | nation | No information available | No information available | - |
| Chronic oral | No informatio available | n No information available | No inforr available | nation | No information available | No information available | - |
| Chronic dermal | No informatio available | n No information available | No inforr available | nation | No information available | No information available | - |
| Chronic No information inhalation available | | n No information available | No inforr available | nation | No information available | No information available | - |
| - | · | | | | | | |
| Specific | target organ tox | city - repeated expo | sure (STOT | -RE): | | i | |
| | | Specific effe | ects | | Target orga | n | Note |
| Subacute oral | | No information ava | ilable | No information available | | lable - | |
| Subacute dermal | | No information ava | ilable | No information available | | lable - | |
| Subacute inhalat | ion | No information ava | ilable | No ii | nformation avai | lable - | |



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| Trade name: | | | | | BIOFIX | | | |
|--------------------------------------|--|---------------------------|------------------------------|--|---|---|------------------------------------|---|
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| Subchronic or | | | No information ava | ilahla | No information a | vailahla | _ | |
| Subchronic oral Subchronic dermal | | | No information ava | | No information a | | _ | |
| Subchronic inł | | on | No information ava | | No information a | | _ | |
| Chronic oral | alati | UII | No information ava | | No information a | | _ | |
| Chronic derma | | | No information ava | | No information a | | _ | |
| Chronic inhala | | | No information ava | | No information a | | - | |
| | | | | | | | | |
| CMR | effec | ts (carcinoge | nicity, mutagenicity, re | eproductiv | ve toxicity) | | | |
| Carci | noge | nicity: | | Possible carcinogen. | | | | |
| Muta | Mutagenicity <i>in-vitro</i> : Genotoxicity: Mutagenicity <i>in-vivo</i> : | | | Current in vitro tests did not indicate mutagenic effects. | | | | |
| Geno | | | | No information available | | | | |
| Muta | | | | Evidence of genetic defects. | | | | |
| Germ | cell | mutagenicity | · : | No information available | | | | |
| Repro | duct | ive toxicity: | | No toxicity on reproductive organs was determined in low concentrations. | | | | |
| Sumr prope | - | | tion of the CMR | do not carcino evidenc cytotox | studies indicate that cause CMR effects genic activity in exp e for a threshold icity and regenerative n. Further detailed tes | but forma perimental effect for cell prolife | aldehyo anima tumo ration | de has local als; there is rs involving |
| 11.2. Inform | natic | on on other h | azards: | | | | | |
| | | disrupting p | | | | | | |
| | | n endocrine human heal | disrupting properties th. | | | | | |
| 11.2.2. Other | info | rmation: | | | | | | |
| - | | | | | | | | |

| SECTION 12. Ecological information | | | | | | | | | |
|------------------------------------|---|----------|---|--------------------------------|--------------------------------|---------------------------|--|--|--|
| 12.1. Toxicity | | | | | | | | | |
| Acute (short-term) toxicity | LIOSA · · · · · · · · · · · · · · · · · · · | | Note | | | | | | |
| Fish | LC ₅₀ | 96 hours | Lepomis macrochirus (Bluegill sunfish) | No information available | No information available | 15.400 mg/l (methanol) | | | |



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|---------------------------|--|------------------|--------------------|---|------------------------------------|-------------------------|--------------------------------|---|--------------------|
| Product code: | | BF-X** | BF-X** Date of com | | ompilation: 22 Dec 2022 | | 2 Version | | 5 |
| Crustacea: | | EC ₅₀ | 48 hours | Daphnia magna | Nc informa availa | ation | No information available | | 260 mg/l nanol) |
| Algae/aquatic plants: | | IC ₅₀ | 8 days | Pseudokirchn eriella subcapitata (green algae) | NO information available | | No information available | | 0 mg/l nanol) |
| Other organis | sms | - | - | - | - | | - | - | |
| Chronic (long toxicity | -term) | Dose | Exposure time | e Species | Meth | od | Evaluation | | Note |
| Fish | | LC ₅₀ | 96 hours | No information available | No informat available | | No information available | - | |
| Crustacea: | | EC ₅₀ | 48 hours | No information available | No informat available | | No information available | - | |
| Algae/aquatic plants: | | | 72 hours | No information available | No informat available | | No information available | - | |
| Other organis | ms | - | - | - | | | - | - | |
| 100 0 | | | 1 | | | | | | |
| | | and degrada | adility | | | | | | |
| ADIO | - | egradation h | alf-lives | Method | | | Evaluation | | Note |
| Marine water | | nformation a | | No information a | vailable | | ormation | _ | Note |
| Fresh water | No i | nformation a | vailable | No information a | vailable | No info availat | ormation lle | - | |
| Air | No i | nformation a | vailable | No information a | available No information available | | | - | |
| Soil | oil No information available No inform | | No information a | mation available No information available | | | - | | |
| Riod | egrada | ition | | | | | | | |
| 1 | - | Time (da | avs) | Method | | Evalı | uation | N | ote |
| % Degradation | | - | - | o information avail | able | No inform availab | ation - | | |



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| 12.3. | | ulative potent | | | | | | | | | |
|--|--|-------------------------|-----------------|------------------|-------------------------|--------------------|------------|---|------------|--------------------------|------|
| | - | vater partition | coefficier | | | | | | | | |
| Valu | ie Co | oncentration | рН | °C | Me | Method | | Evaluation No information available | | | Note |
| - | No avail | information able | - | - | - | | | | | - | |
| | | | | | | | | | | | |
| | Bioconcer | ntration Factor | · (BCF) | | | | | | | | |
| Value | | Spee | pecies | | Method | | | Evaluation | | Note | |
| | No information No info available availab | | mation No infor | | formatior | ormation available | | No information available | | No information available | |
| | | | | | | | | | | | |
| | Chronic e | cotoxicity | ì | | 1 | | | | | | ÷ |
| Value | | Do | se | Exposure time | | ecies | ies Method | | Evaluation | | Note |
| Chronic toxicity on fish | | n fish LC ₅₀ | _ | rmation lable | No inform availat | | | ormation | on | rmati lable | - |
| Chronic toxicity on crustacea (Daphnia) | | | | rmation lable | No inform availat | | | ormation | on | rmati lable | _ |
| | | | | | | | | | avai | lable | |
| 12.4. | Mobility i | n soil | | | | | | | | | |
| | Known or predicted distribution in environmental compartments: | | | | | | | | | | |
| | No information available | | | | | | | | | | |
| Surface tension: | | | | | | | | | | | |
| | Valu | le | °C | °C Concer | | tration | | Method | | | Note |
| | available | | rmation | nation ble | | n No inform | | mation available | | | - |



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| T | Adsorption / desorption | | 1 | 1 | | | | | | |
|-----------------------------------|---|---|--------------------------------|-----------------------------|---------------------|--|--|--|--|--|
| Transpo | ort A/D coefficient Henry's constant | log Kow | Evaporation rate | Method | Note | | | | | |
| Soil-Wa | ater No informatio available | n No information available | No information available | No information available | - | | | | | |
| Water- | Air No informatio available | No information available | No information available | No information available | - | | | | | |
| Soil-Air | r No informatio available | n No information available | No information available | No information available | - | | | | | |
| | | | | | | | | | | |
| 12.5. | | Results of PBT and vPvB assessment | | | | | | | | |
| | Substance(s) in the mixture 1907/2006, Annex III or a P | | | 5 | Regulation (EC) No | | | | | |
| | 1307/2000, Annex III OF a P | | | iteu. | | | | | | |
| 12.6. | Endocrino dicrupting prop | rtion | | | | | | | | |
| 12.0. | Endocrine disrupting properties | | | | | | | | | |
| | The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission | | | | | | | | | |
| | Regulation (EU) 2018/605 at levels of 0.1% or higher. | | | | | | | | | |
| | | | | | | | | | | |
| 12.7. | Other adverse effects | | | | | | | | | |
| | | | | | | | | | | |
| | 1 | | | | | | | | | |
| | | | | | | | | | | |
| SECTIC | ON 13. Disposal considerati | ons | | | | | | | | |
| | ON 13. Disposal consideration Waste treatment method | | | | | | | | | |
| | • | | | | | | | | | |
| SECTIC 13.1. 13.1.1. | Waste treatment method | S | | | | | | | | |
| 13.1. | Waste treatment method | s sal: | g to the nationa | l and local rules and | regulations. Do not | | | | | |
| 13.1. | Waste treatment method Product/Packaging dispo Waste material must be o mix with other sorts of w | s sal: lisposed of accordin aste. Submit for disp | - | | - | | | | | |
| 13.1. | Waste treatment method Product/Packaging dispo Waste material must be d | s sal: lisposed of accordin aste. Submit for disp | - | | - | | | | | |
| 13.1. | Waste treatment method Product/Packaging dispo Waste material must be o mix with other sorts of w Environmental and Natur | s sal: lisposed of accordin aste. Submit for disp e Protection. | osal to the legal | | - | | | | | |
| 13.1. | Waste treatment method Product/Packaging disponsion Waste material must be of mix with other sorts of we Environmental and Nature Waste codes/waste design | s sal: lisposed of accordin aste. Submit for disp e Protection. | osal to the legal | | - | | | | | |
| 13.1. | Waste treatment method Product/Packaging dispo Waste material must be o mix with other sorts of w Environmental and Natur | s sal: lisposed of accordin aste. Submit for disp e Protection. | osal to the legal | | - | | | | | |
| 13.1. | Waste treatment method Product/Packaging disponsion Waste material must be of mix with other sorts of we Environmental and Nature Waste codes/waste design | s sal: lisposed of accordin aste. Submit for disp e Protection. nations according to | osal to the legal | | - | | | | | |



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| Trade n | ame: | | | BIOFIX | | | | | | |
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| | 45.04.4 | <u></u> | | | | | | | | |
| | substan | | that contains residual hazard | ous substances or is con | itaminated with h | azardous | | | | |
| 13.1.4. | Sewage | Sewage disposal – relevant information: | | | | | | | | |
| | Waste r | nust not be d | isposed of into the sewage sy | stem. | | | | | | |
| 13.1.5. | Other d | lisposal recon | nmendations: | | | | | | | |
| | Do not dispose of the product's remains into the sewage system. Submit the remains to the collect authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Su the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places w ignition may occur. | | | | | | | | | |
| 13.1.6. | Relevan | nt Community | provisions: | | | | | | | |
| | - | | | | | | | | | |
| | | | | | | | | | | |
| SECTION | N 14. Trar | nsport inform | nation | | | | | | | |
| | Transport | ing/shipment | by road (ADR) | | | | | | | |
| UN number: | | | 1992 | 1992 | | | | | | |
| UN proper shipping name: | | Flammable liquid, | Flammable liquid, toxic, n.o.s. (methanol solution) | | | | | | | |
| Transpoi | rt hazard o | class(es): | 3 (6.1) | 3 (6.1) | | | | | | |
| Packing | group: | | II | | | | | | | |
| Environn | nental haz | ards: | - | - | | | | | | |
| Special p | precaution | s for user: | - | | | | | | | |
| | Transport | ing/shipment | by rail (RID) | | | | | | | |
| UN number: | | | 1992 | 1992 | | | | | | |
| UN proper shipping name: | | Flammable liquid, | Flammable liquid, toxic, n.o.s. (methanol solution) | | | | | | | |
| Transport hazard class(es): | | 3 (6.1) | 3 (6.1) | | | | | | | |
| Packing group: | | | <u>II</u> | | | | | | | |
| Environn | nental haz | ards: | - | - | | | | | | |
| Special p | precaution | s for user: | - | | | | | | | |
| | Transport | ing/shipment | by inland waterways (ADN) | | | | | | | |
| UN num | ber: | | 1992 | | | | | | | |
| UN prop | er shippir | ng name: | Flammable liquid, | Flammable liquid, toxic, n.o.s. (methanol solution) | | | | | | |
| Transport hazard class(es): | | | 3 (6.1) | 3 (6.1) | | | | | | |
| Packing | group: | | II | II | | | | | | |
| Environn | nental haz | ards: | - | | | | | | | |
| Special precautions for user: | | | - | | | | | | | |



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| Product code: | Product code: BF-X** Date of compilation: | | 22 Dec 2022 | Version: | 5 |

| Transporting/shipment by sea (IN | MDG) |
|---|---|
| UN number: | 1992 |
| UN proper shipping name: | Flammable liquid, toxic, n.o.s. (methanol solution) |
| Transport hazard class(es): | 3 (6.1) |
| Packing group: | П |
| Environmental hazards: | - |
| Special precautions for user: | - |
| Transport in bulk according to Annex II of MARPOL73/78 and the IBC code: | - |
| Transporting/shipment by air (IC | AO-TI/IATA-DGR) |
| | 1000 |
| UN number: | 1992 |
| UN number: UN proper shipping name: | 1992 Flammable liquid, toxic, n.o.s. (methanol solution) |
| | |
| UN proper shipping name: | Flammable liquid, toxic, n.o.s. (methanol solution) |
| UN proper shipping name: Transport hazard class(es): | Flammable liquid, toxic, n.o.s. (methanol solution) 3 (6.1) |
| UN proper shipping name: Transport hazard class(es): Packing group: | Flammable liquid, toxic, n.o.s. (methanol solution) 3 (6.1) II |
| UN proper shipping name: Transport hazard class(es): Packing group: Environmental hazards: | Flammable liquid, toxic, n.o.s. (methanol solution) 3 (6.1) II - |

| SECTIO | ON 15. Regulatory info | rmation | | | | |
|--------|------------------------|--|--|--|--|--|
| 15.1. | Safety, health and env | Safety, health and environmental regulations/legislation specific for the substance or mixture | | | | |
| | EU regulations | | | | | |
| | Authorisations and/or | restrictions on use | | | | |
| | Authorisations: | - | | | | |
| | Restrictions: | - | | | | |



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| Trade name: | BIOFIX | | | | | |
|---------------|--------|----------------------|-------------|----------|---|--|
| Product code: | BF-X** | Date of compilation: | 22 Dec 2022 | Version: | 5 | |

| | Other EU regulations: | Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII); |
|-------|--|---|
| | Information according 1999 guideline) | 1/13/EC about limitation of emissions of volatile organic compounds (VOC- |
| | National legislation: | Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act |
| 15.2. | Chemical safety assessment | |
| | None | |

| SECTIC | ON 16. Other information | |
|--------|---|--|
| 16.1. | Indication of changes: | - |
| 16.2. | Abbreviations and acronyms: | ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative |
| 16.3. | Key literature references and source of data: | - |



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| Trade name: | BIOFIX | | | | |
|---------------|--------|----------------------|-------------|----------|---|
| Product code: | BF-X** | Date of compilation: | 22 Dec 2022 | Version: | 5 |

| 16.4. | Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP) | | | | | |
|---------|---|-------------------------|---|--|--|--|
| Classif | Classification Classif | | Classification procedure | | | |
| - | - | | - | | | |
| 16.5. | Rele | evant H statements (num | ber and full text) | | | |
| | 225 226 301+311+331 314 H: 317 341 | | Highly flammable liquid and vapor. | | | |
| | | | Flammable liquid and vapor. | | | |
| | | | Toxic if swallowed, in contact with skin or if inhaled. | | | |
| | | | Causes severe skin burns and eye damage. | | | |
| | | | May cause an allergic skin reaction. | | | |
| | | | Suspected of causing genetic defects. | | | |
| | | 350 | May cause cancer. | | | |
| | | 370 | Causes damage to organs if inhaled, if it comes into contact with skin, and if swallowed. | | | |
| 16.6. | Trai | ning advice: | - | | | |
| | 7. Further information: | | ** "X" in the product code marks different volumes (different packaging of the product) | | | |
| 16.7. | | | We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet. | | | |

ANNEX: Exposure scenario resulting to Chemical safety assessment



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| Trading name: | HISTANOL 100 | | | | | |
|---------------|--------------|----------------|-------------|----------|---|--|
| Product code: | H100-X** | Revision date: | 05 Dec 2022 | Version: | 6 | |

| 1.1 | Product identifier | | | | | |
|-----|----------------------------------|--|--|---|--|--|
| | Trading name: | HISTANOL 1 | HISTANOL 100 | | | |
| | Chemical name: | Ethyl alcoho | Ethyl alcohol | | | |
| | Catalogue number: | H100-X** | | | | |
| 1.2 | Relevant identified use | es of the substa | ance or n | nixture and uses advised against | | |
| | Uses: | | For use | in histocytology and cytology sample processing. | | |
| | Uses advised against: | | Only the comsum | e identified uses are advised. Unsuitable for human aption. | | |
| | Reason why uses advised against: | | The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes. | | | |
| 1.3 | Details of the supplier | Details of the supplier of the safety data sheet | | | | |
| | Supplier: | | BioGnost Ltd. | | | |
| | Address: | | Medjugorska 59, Zagreb | | | |
| | Telephone number: | | +385 1 2409997 | | | |
| | Telefax.: | | +385 1 2404039 | | | |
| | e-mail of competent p | erson: | msds@biognost.hr | | | |
| | National contact: | | - | | | |
| 1.4 | Emergency telephone | number | | | | |
| | National Protection an | d Rescue Dire | ctorate: | 112 | | |
| | Medical information: | | | +385 1 2348 342 | | |
| | Other information: | | | _ | | |

| SECTIO | SECTION 2. Hazards identification | | | | | |
|----------|--|-------------------|-----------|--|--|--|
| 2.1 | Classification of the substance or mixture | | | | | |
| 2.1.1 | Classification according to Regulation (EC) No 1272/2008 (CLP) | | | | | |
| | Hazard class and category code: Hazard statements*: | | | | | |
| | Flam. Liq. 2 H225 | | | | | |
| 2.1.2. | Additional information | | | | | |
| | - | | | | | |
| *For ful | text of Hazard- and EU Hazard- | statements: see S | ECTION 16 | | | |
| 2.2 | Label elements | | | | | |
| | Product identification: | HISTANOL 100 | | | | |
| | Identification number: | - | | | | |
| | Authorization number: | - | | | | |



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| Trading name: | | HISTANOL 100 | | | | | | |
|---------------|----------|----------------|-------------|----------|---|--|--|--|
| Product code: | H100-X** | Revision date: | 05 Dec 2022 | Version: | 6 | | | |

| | Hazard pictograms: | GHS02 | | |
|-----|---|---|--|--|
| | Signal word: | Danger | | |
| | Hazard statements: | H225 Highly flammable liquid and vapor. | | |
| | Precautionary statements: | P210 Keep away from heat, hot sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P280 Wear protective gloves/protective clothing/eye/protection/face protection. P403+P235 Store in a well-ventilated place. Keep cool. | | |
| | Supplemetal hazard information (EU): | - | | |
| 2.3 | Other hazards | | | |
| | The product has no other know | n specific hazards for human or environment. | | |
| | Results of PBT and vPvB assessment: Based on available data, the product does not contain any PBT or vPvB substances. | | | |
| | Endocrine disrupting property: | Based on available data, does not contain endocrine disruptors. | | |

| SECTION 3. Composition/information on ingredients | | | | | | |
|---|---------------------------|--------------------------------|---------------------|--|--|--|
| CAS/ EC/ Index number | REACH Registration No | Weight % content (or range) | Identification name | Classification according to Regulation (EC) No 1272/2008 (CLP) | | |
| 64-17-5/ 200-578-6/ 603-002-00-5 | 01-2119457610-43- 0147 | min. 99 % | ethanol | Flam. Liq. 2; H225 | | |

| SECTI | SECTION 4. First aid measures | | | | |
|-------|--------------------------------|--|--|--|--|
| 4.1 | Description of first aid measu | res | | | |
| | General notes: | If the suggested first aid measures do not prove sufficient, seek medical attention. | | | |
| | Following inhalation: | Take the victim into fresh air, loosen his clothes and place him in a comfortable position. If breathing difficulty occurs, administer artificial respiration. In case of complaints call a physician. | | | |
| | Following skin contact: | Remove the contaminated clothes. Wash the skin surface under plenty of running water. Seek medical assistance if the symptoms of irritation remain. | | | |



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| Trading name: | | HISTA | NOL 100 | | |
|---------------|----------|----------------|-------------|----------|---|
| Product code: | H100-X** | Revision date: | 05 Dec 2022 | Version: | 6 |

| | Following eye contact: | In case of contact with eyes flush with water holding eyelids apart and moving the eyeballs (for at least 10 minutes). If the symptoms remain, immediately call in ophthalmologist. | |
|-----|--|---|--|
| | Following ingestion: | Place the victim in a comfortable position. Rinse the mouth with clean water. If the victim is conscious induce vomiting. Do not give the victim anything orally, and do not induce vomiting if the victim is unconscious or suffers from convulsions. | |
| | Self-protection of the first aider: | - | |
| 4.2 | Most important symptoms and effects, both acute and delayed | | |
| | Following inhalation: | Inhalation of larger quantities may affect the central nervous system. | |
| | Following skin contact: | Prolonged or repeated dermal contact may cause the defatting and dryness of the skin. | |
| | Following eye contact: | May irritate the eyes. | |
| | Following ingestion: | Ingestion of larger quantities may affect the central nervous system. | |
| 4.3 | Indication of any immediate medical attention and special treatment needed If larger quantities have entered the body, obtain medical treatment (gastric lavage, activated carbon). | | |

| SECTI | SECTION 5. Firefighting measures | | | | |
|-------|---|--|--|--|--|
| 5.1 | Extinguishing media | | | | |
| | Suitable extinguishing media: | Extinguishing powder, alcohol-resistant foam, water, carbon-dioxide. | | | |
| | Unsuitable extinguishing media: | Water with full jet. | | | |
| 5.2 | Special hazards arising from the su | ibstance or mixture | | | |
| | Hazardous combustion products: | Highly flammable liquid and vapour. In case of fire, smoke, and other combustion products (carbon monoxide, carbon dioxide) may be formed, the inhalation of such combustion products can have serious adverse effects on health. Vapours may form an explosive mix with air. Vapours may be ignited by open flames, sparks, electrical equipment, or static charge. Vapours may travel to great distances, ignite in contact with ignition sources and flash back to the primer source (container). Vapours of ethyl alcohol mix greatly with air and may form an explosive mixture. Air containing 3.3 – 19 % ethyl alcohol vapours may explode in contact with ignition sources. Diluting the mixture with large amounts of water results in the loss of its flammability (around 10 % concentration of ethyl alcohol). | | | |
| 5.3 | Advice for firefighters | | | | |
| | Wear full protective clothing and self-contained breathing apparatus. Cool the fire affected containers with water spray. Use water spray to dissipate alcohol vapours. | | | | |
| 5.4 | Additional information | | | | |
| | - | | | | |



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| Trading name: | | HISTA | NOL 100 | | |
|---------------|----------|----------------|-------------|----------|---|
| Product code: | H100-X** | Revision date: | 05 Dec 2022 | Version: | 6 |

| 6.1 | Personal precautions, protective equipment and emergency procedures | | | | |
|--------|--|---|--|--|--|
| 6.1.1. | For non-emergency personnel | | | | |
| ••••• | Protective equipment: Use personal protective equipment (see Section 8). | | | | |
| | Accident prevention methods: | Evacuate members of all non-essential personnel and those members | | | |
| | Emergency procedures: | Mark the area using proper signs. | | | |
| 6.1.2. | For emergency responders: | | | | |
| | ventilation. Vapours may accur | nd clothing and inhaling gases, vapours and aerosols. Ensure adequate mulate at floor level in low and confined spaces. Remove all heat, ignition chines. Ignition spark arrestor must not be operated in the danger area. Use the risk of slipping. | | | |
| 6.2 | Environmental precautions: | | | | |
| | Dispose of the spillage and the resulting waste according to the applicable environmental regulations. Do not allow the product and the resulting waste to enter sewers/soil/surface or ground water. Notify the respective authorities in accordance with local law in the case of environmental pollution immediately. | | | | |
| 6.3 | Methods and material for cont | ainment and cleaning up | | | |
| 6.3.1. | Bunding, covering of drains; capping procedures: | Sand protective barrier or barriers made of similar materials. | | | |
| 6.3.2. | Cleaning up: | Collect the spilled product with inert, non-combustible absorbent (e.g. sand, vermiculite, earth) then place into a suitable, closed, properly labelled chemical waste container for removal/disposal. During the collection, placement, disposal of the waste, wear appropriate individual protective equipment. Flush the remains with plenty of water. The product loses its flammability, if diluted with significant amount of water (approx. 10% solution). | | | |
| 6.3.3. | Other information: | Secure proper ventilation. Do not use incompatible materials (see Section 10). | | | |
| 6.4 | Reference to other sections | | | | |
| | See Section 7 for information on safe handling. | | | | |
| | See Section 8 for information on personal protection equipment. | | | | |
| | | See Section 13 for disposal information. | | | |

| SECTIC | SECTION 7. Handling and storage | | | |
|--------|---------------------------------|--|--|--|
| 7.1 | Precautions for safe handling | | | |
| 7.1.1. | Protection measures | | | |



_ _ C 4 7

| | | | | | Page 5 of 1 | 7 |
|--|--|---|---|---|--|---|
| ig name: | HISTANOL 100 | | | | | |
| ct code: | H100-X** | Revisior | n date: | 05 Dec 2022 | Version: | 6 |
| Measures | Measures to prevent fire: Measures to prevent aerosol and dust generation: | | | Use in well ventilated storage rooms. Keep away from heat, hot surfaces, sparks, oper flames and other ignition sources. No smoking. Use non-sparkling tools and equipment. | | |
| Measures | | | | Ensure adequate v | entilation. | |
| Measures to protect the environment: | | | Prevent spilling int and waterways. | o the sewage syste | m | |
| Other measures: | | | Protect against ele | Protect against electrostatic charges. | | |
| Advice on general occupational hygiene: | | | | | | |
| Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating. | | | | | | |
| Conditions for safe storage, including any incompatibilities | | | | | | |
| Technical | measures and storag | om sources of heat an ned and hermetically oxidizing agents, food | d ignition, in its or sealed packaging, | riginal, away | | |
| Packaging | | | | cturer's original packag | jing. | |
| Requirem | Ke | | | Keep away from food and drink. Keep the containers tightly closed. | | |
| Advices fo | or storage equipment | : | be resistant to chemicals. There must be no d | | | in that |
| Further information on storage conditions: Do not chemic | | | o not use empty cont als. Do not store with in | ainers for storing | other | |
| | ct code: Measures Measures Measures Measures Other me Advice or Do not ea Condition Technical Packaging Requirem Advices for | ct code: H100-X** Measures to prevent fire: Measures to prevent aerosol and Measures to protect the enviror Measures to protect the enviror Other measures: Advice on general occupational Do not eat, drink or smoke in the Conditions for safe storage, incompared and storage Technical measures and storage Packaging materials: Requirements for storage equipment | ct code: H100-X** Revision Measures to prevent fire: Measures to prevent aerosol and dust generation Measures to protect the environment: Measures to protect the environment: Other measures: Advice on general occupational hygiene: Do not eat, drink or smoke in the workspace. The Conditions for safe storage, including any incom Technical measures and storage conditions: Packaging materials: Requirements for storage rooms and vessels: Advices for storage equipment: | ct code: H100-X** Revision date: Measures to prevent fire: Measures to prevent aerosol and dust generation: Measures to protect the environment: Measures to protect the environment: Other measures: Advice on general occupational hygiene: Do not eat, drink or smoke in the workspace. Thoroughly to conditions for safe storage, including any incompatibilitie Technical measures and storage conditions: Store in away from consumple storage rooms and vessels: Packaging materials: Manufa Requirements for storage rooms and vessels: Keep and tightly of the storage rooms and vessels: Advices for storage equipment: Do not and do the resist directly ventilate Further information on storage conditions: Do not and do the chemic | ct code: H100-X** Revision date: 05 Dec 2022 Measures to prevent fire: Use in well ventila away from heat, h flames and othe smoking. Use n equipment. Use in well ventila away form heat, h flames and othe smoking. Use n equipment. Measures to prevent aerosol and dust generation: Ensure adequate v Measures to protect the environment: Prevent spilling int and waterways. Other measures: Protect against ele Advice on general occupational hygiene: Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work a conditions for safe storage, including any incompatibilities Technical measures and storage conditions: Store in a well-ventilated place away from sources of heat an unopened and hermetically from oxidizing agents, food consumption. Packaging materials: Manufacturer's original packag. Requirements for storage rooms and vessels: Keep away from food and drin tightly closed. Advices for storage equipment: Do not place the unused of be resistant to chemicals. The directly leads into sewage ventilation. Do not place the unused mat and do not use empty cont | g name: HISTANUL 100 ct code: H100-X** Revision date: 05 Dec 2022 Version: ct code: H100-X** Revision date: 05 Dec 2022 Version: Measures to prevent fire: Use in well ventilated storage rooms away from heat, hot surfaces, sparks flames and other ignition source smoking. Use non-sparking tools equipment. Measures to prevent aerosol and dust generation: Ensure adequate ventilation. Measures to protect the environment: Prevent spilling into the sewage syste and waterways. Prevent spilling into the sewage syste and waterways. Other measures: Other measures: Protect against electrostatic charges. Advice on general occupational hygiene: Store in a well-ventilated place, protected from su away from sources of heat and ignition, in its or unopened and hermetically sealed packaging, from oxidizing agents, food, feed and artic consumption. Packaging materials: Manufacturer's original packaging. Requirements for storage rooms and vessels: Keep away from food and drink. Keep the contain tightly closed. Advices for storage equipment: The storage must be made of hard material; floor be resistant to chemicals. There must be no drai directly leads into sewage system. Secure preventilation. Packaging materials: Do not place the unused material in the storage and do not use empty containers for storing and do not use empty containers for storing and do no |

| 7.3 | Specific end use(s) | | | | |
|-----|---------------------------------------|---|--|--|--|
| | Recommendations: | - | | | |
| | Industrial sector specific solutions: | - | | | |

| SECTION 8. Exposure controls/personal protection | | | | | | | |
|--|---------|--------|---------------------------------|-------------------------|--|--|--|
| 8.1 Control parameters | | | | | | | |
| Substance | CAS No | • | exposure limit t term values | Biological limit values | | | |
| | | ppm | mg/m ³ | | | | |
| Ethanol | 64-17-5 | 1000/- | 1900/- | - | | | |
| | | | | | | | |
| Substance name: - | | | | | | | |



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| Trading na | ame: | | | | | HIS | STANO | L 100 | | | |
|--------------|-------------------|----------------------|---------------------------|---------|--------------|------------------------------|---------------------------------|----------------------------------|------------------------------------|---|--------------|
| Product co | ode: | H100-X | ** | | Revisio | on date | : | 05 Dec 2022 | | Version: | 6 |
| | i | | - | | 1 | | | | | | |
| EC No: | | - | CAS No | : | - | | | | | | |
| DNEL | | | | | | | | | | | |
| | | | | | In | dustrial | | | | | |
| Route of | | Αсι | ıte | | Acute | | Cł | nronic | | Chronic | |
| exposure: | | effect | local | effe | ct systemi | с | effe | ct local | e | effect systemic | |
| Oral | | - | | - | | - | | | - | | |
| Inhalation | | 1900 mg (ethanol) | | - | | - | | | 380 mg | /m ³ (ethanol) | |
| Dermal | | - | | - | | - | | | 343 mg | /kg (ethanol) | |
| Critical phy | sical para | meters: s | olubility, | flamm | ability, coı | rrosivity | | - | | | |
| | | | | | Co | nsume | | | | | |
| Route of | | A | cute | | Acute | | Cł | nronic | | Chronic | |
| exposure: | | effeo | t local | effe | ct systemi | с | effe | ct local | e | effect systemic | |
| Oral | | - | | - | | - | | | 87 mg/l | kg bw/day (etha | anol) |
| Inhalation | | 950 m (ethar | 0 | - | | - | | | 114 mg | /m ³ (ethanol) | |
| Dermal | | - | | - | | - | | | 206 mg | /kg (ethanol) | |
| PNEC | | | | | | | | | | | |
| Environmer | ntal prote | ection tar | get | | | PNEC | | | | | |
| Fresh water | • | | | | | 0.96 m | g/l (eth | anol) | | | |
| Freshwater | sedimen | ts | | | | 3.6 mg | /kg (etł | nanol) | | | |
| Marine wat | er | | | | | 0.79 m | g/l (eth | anol) | | | |
| Marine sed | iments | | | | | 2.9 mg | /kg (etł | nanol) | | | |
| Food chain | | | | | | 380-72 | 20 mg/k | g (ethanol) | | | |
| Microorgar | nisms in s | ewage tr | eatment | | | 580 m | g/l (etha | anol) | | | |
| Soil (agricu | ltural) | | | | | 0.63 m | g/kg (e | thanol) | | | |
| Air | | | | | | no info | ormatio | n available | | | |
| | | | | | | | | | | | |
| 8.2 | Exposu | re contro | ls | | | | | | | | |
| 8.2.1. | Approp | riate eng | ineering (| control | s | | | | | | |
| | | | ire related e during i | | | concer concer existing | ntration ntration g scien | limit it is the levels down t | e employ o a minir iological | vith no contro ver's duty to k num achievable means, where p workers. | keep e by |
| | Structu exposu | | ires to pre | event | | In acco | ordance | with Section 7. | | | |



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| | | | | | | Page 7 of 17 | |
|-----------|-----------------|--|----------------------------|--|--|--|-----------------|
| Trading I | name: | | | HISTA | NOL 100 | | |
| Product | code: | H100-X** | Revisi | on date: | 05 Dec 2022 | Version: | 6 |
| | Orgar expos | nisational measures to pr sure: | event | • | on of work in order to r luring work process. | educe other worker' | S |
| | Techr | nical measures to prevent | exposure: | avoid spilli contact wit | ce of work is proper for ng onto clothes and flo th eyes and skin. Use ac n methods and with ade | oors and to avoid cording to general | |
| | | | | Use non-s | parkling ventilation syst | em. | |
| | | | | | propriate personal prot d eye-wash station. | ective equipment, sa | afety |
| 8.2.2. | Perso | nal protection equipmen | t | 1 | | | |
| 8.2.2.1. | Eye a | nd face protection: | • | appropriate, chemical-proof protective glasses/face shield (EN 16321-1:2022, EN 166). | | | |
| 8.2.2.2. | Skin p | protection | | | | | |
| | Hand | protection: | Use ap | propriate, cl | nemical-resistant protec | ctive gloves (EN 374) | • |
| | Other | skin protection: | Use ap | propriate pr | otective clothing. | | |
| 8.2.2.3. | Respi | ratory protection: | concer in the contac | ntration of et air, use a t and if the c | I usage and ventilatio hyl alcohol exceeds occ self-contained breathi oxygen content of the ai ask with filter A (EN 148 | cupational exposure ing apparatus. For ir is greater than 18 % | limits short |
| 8.2.2.4. | Thern | nal hazards: | No the | rmal hazard | s known. | | |
| 8.2.3. | Enviro | onmental exposure contro | ols | | | | |
| | | ance/mixture related ures to prevent exposure | : See Se | ction 6 | | | |
| | Struct expos | tural measures to prevent sure: | t Use m | odern equip | ment. | | |
| | - | nisational measures to nt exposure: | Adapt workpl | • | ocess to the required w | orking conditions of | the |
| | Techr expos | nical measures to prevent sure: | See Se | ction 6 | | | |

| SECTI | ON 9. Physical and chemical prope | rties | | | | |
|-------|-----------------------------------|---|--------------------------|--|--|--|
| 9.1 | Information on basic physical and | Information on basic physical and chemical properties | | | | |
| | | Value | Method | | | |
| | Physical state: | liquid | No information available | | | |
| | Colour: | colourless | No information available | | | |
| | Odour/odour threshold: | ethanol like/no information available | No information available | | | |
| | Melting point / freezing point: | No information available | No information available | | | |



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| Trading name: | | HISTANOL 100 | | | | | | |
|---------------|----------|----------------|-------------|----------|---|--|--|--|
| Product code: | H100-X** | Revision date: | 05 Dec 2022 | Version: | 6 | | | |

| | Boiling point or initial boiling point and boiling range: | No information available | No information available |
|-----|---|-------------------------------------|--------------------------|
| | Flammability: | No information available | No information available |
| | Lower and upper explosion limit: | lower: 3.3 Vol % upper: 19 Vol % | No information available |
| | Flash point: | 13 °C | No information available |
| | Auto-ignition temperature: | 363 ℃ | No information available |
| | Decomposition temperature: | No information available | No information available |
| | pH: | No information available | No information available |
| | Kinematic viscosity: | No information available | No information available |
| | Solubility: | in water completely miscible | No information available |
| | Partition coefficient n- octanol/water (log value): | No information available | No information available |
| | Vapour pressure: | No information available | No information available |
| | Density and/or relative density: | 0.79 – 0.7921 (20°C) | No information available |
| | Relative vapour density: | No information available | No information available |
| | Particle characteristics: | No information available | No information available |
| 9.2 | Other information | | |
| | Explosive properties: the vapours f | rom ethyl alcohol form an expl | osive mixture with air |

| SECTI | ON 10. Stability and reactivity | |
|-------|-------------------------------------|--|
| 10.1 | Reactivity: | See Section 10.5. |
| 10.2 | Chemical stability: | Stable within normal temperature and general work conditions. |
| 10.3 | Possibility of hazardous reactions: | See Section 10.5. |
| 10.4 | Conditions to avoid: | Keep away from heat, sparks, open flames, strong heating and ignition sources. No smoking. |
| 10.5 | Incompatible materials: | Strong oxidizing agents (inorganic strong acid, nitric acid, perchlorates, peroxy compounds, perchloric acid, permanganates etc.), alkali metals, alkali earth metals. |
| 10.6 | Hazardous decomposition products: | Carbon monoxide and carbon dioxide. |

| SECTIO | SECTION 11. Toxicological information | | | | | | | |
|--------------------|---|--------|---------|--|---------------|---------|--|--|
| 11.1 | 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 | | | | | | | |
| | Acute toxicity: | | | | | | | |
| Route o exposur | | Method | Species | Dose LD ₅₀ /LC ₅₀ or ATE _{mix} | Exposure time | Results | | |



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| | | | | | | | Page 9 | 0117 |
|--|------------------------|--|-------------------|---------------------------|-----------------|-----------------------------|---------------|------------|
| Trading name: | | | | HISTA | NOL 100 | | | |
| roduct code: pral: permal: halation: Specific ta pral: permal: halation: Aspiration Irritation a kin orrosion/irritation: erious eye amage/irritation erious eye amage/irritation Sensitization kin sensitization: espiratory sensitiz Symptoms pral exposure: permal exposure: halation exposure: permal exposure: | H100-X** | | Revisio | on date: | 05 Dec 2 | .022 | Versior | n: 6 |
| | | | | | | | | |
| Oral: | - | rat (ethano | | LD ₅₀ | 0 | - | | 60 mg/kg |
| Dermal: | - | rabbit (etha | - | LD ₅₀ | - | - | | 0.000 mg/l |
| Inhalation: | - | rat (ethano | ol) | LC ₅₀ |) | 4 h | >8 | .000 mg/l |
| Specific t | arget organ to | oxicity – single e | vnosure | | | | | |
| opeenie a | | Specific effects | .xposure | . (310132) | Target orgai | n | No | te |
| Oral: | | ation available | | No info | ormation avail | | - | |
| Dermal: | | ation available | | | ormation avail | | _ | |
| Inhalation: | | ation available | | | ormation avail | | _ | |
| | | | | | | | | |
| Aspiration | n hazard: | | No inf | ormation a | available. | | | |
| : | | | | | | | | |
| Irritation | and corrosion | | | | | | | |
| | Exp | osure time | Sp | oecies | Evaluation | Method | N | ote |
| Skin corrosion/irritatior | - | | - | | - | - | - | |
| Serious eye damage/irritation | - | | - | | - | - | - | |
| Consitiont | ion | | | | | | | |
| | - | o information a | vailablo | | | | | |
| | | o information a | | | | | | |
| Respiratory sensiti | | | valiable. | | | | | |
| Symptom | s related to th | ne physical, che | mical an | d toxicoloo | nical character | istics | | |
| Oral exposure: | Absorpt unconsc | ion of great iousness and al g may occur. Re | quant cohol pc | ities may pisoning. In | cause dizz | ziness, dru wing great c | | ausea and |
| Dermal exposure: | After pr cracking | olonged or re of skin. | peated | exposure s | symptoms ma | y include: | defatting, d | ryness and |
| Inhalation exposur | e: Inhalatic membra | on of great quan ines. | itities ma | ay cause diz | zziness, eupho | ria and mild | irritation of | the mucou |
| Eye exposure: | May cau | ise irritation and | d rednes | S. | | | | |
| Reneated | dose toxicity | (subacute, subo | -hronic - | chronic) | | | | |
| Nepealeu | | Exposure | | a. | | | • | |
| | Dose | time | Spe | ecies | Method | Evaluat | ion N | lote |



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| Trading name: | | HISTA | NOL 100 | 5 | |
|---------------|----------|----------------|-------------|----------|---|
| Product code: | H100-X** | Revision date: | 05 Dec 2022 | Version: | 6 |
| | | | | | |

| Subacute oral | No information available | No information available | No information available | No information available | No information available | - |
|-----------------------|--------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------|---|
| Subacute dermal | No information available | No information available | No information available | No information available | No information available | - |
| Subacute inhalation | No information available | No information available | No information available | No information available | No information available | - |
| Subchronic oral | No information available | No information available | No information available | No information available | No information available | - |
| Subchronic dermal | No information available | No information available | No information available | No information available | No information available | - |
| Subchronic inhalation | No information available | No information available | No information available | No information available | No information available | - |
| Chronic oral | No information available | No information available | No information available | No information available | No information available | - |
| Chronic dermal | No information available | No information available | No information available | No information available | No information available | - |
| Chronic inhalation | No information available | No information available | No information available | No information available | No information available | - |

| | Specific effects | Target organ | Note |
|-----------------------|--------------------------|--------------------------|------|
| Subacute oral | No information available | No information available | - |
| Subacute dermal | No information available | No information available | - |
| Subacute inhalation | No information available | No information available | - |
| Subchronic oral | No information available | No information available | - |
| Subchronic dermal | No information available | No information available | - |
| Subchronic inhalation | No information available | No information available | - |
| Chronic oral | No information available | No information available | - |
| Chronic dermal | No information available | No information available | - |
| Chronic inhalation | No information available | No information available | - |



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| Trading name: | | DL 100 | | | |
|---------------|----------|----------------|-------------|----------|---|
| Product code: | H100-X** | Revision date: | 05 Dec 2022 | Version: | 6 |

| | Carcinogenicity: Ba | ased on available data, the classification criteria are not met. | | | | |
|---------|---|---|--|--|--|--|
| | Mutagenicity <i>in vitro</i> : Ba | Based on available data, the classification criteria are not met. | | | | |
| | Genotoxicity: Ba | ased on available data, the classification criteria are not met. | | | | |
| | Mutagenicity <i>in vivo</i> : Ba | ased on available data, the classification criteria are not met. | | | | |
| | Germ cell mutagenicity: Ba | ased on available data, the classification criteria are not met. | | | | |
| | Reproductive toxicity: Ba | ased on available data, the classification criteria are not met. | | | | |
| | Summary of evaluation of the CMR properties: | Based on available data, the classification criteria are not met. | | | | |
| 11.2 | Information on other hazards: | | | | | |
| 11.2.1. | Endocrine disrupting properties: | | | | | |
| | Based on available data, does not contain endocrine disruptors. | | | | | |
| 11.2.2. | Other information: | | | | | |
| | | | | | | |

| SECTION 12. Ecologie | SECTION 12. Ecological information | | | | | | | | | |
|---------------------------------|------------------------------------|------------------|--------------------------|--------------------------------|-------------------------------|------|--|--|--|--|
| 12.1 Toxicity | | | | | | | | | | |
| Acute (short-term) toxicity | Dose | Exposure time | Species | Method | Evaluation | Note | | | | |
| Fish | LC ₅₀ | 96 hours | golden orf | No information available | 8.140 mg/l /48 h (ethanol) | - | | | | |
| Crustacea: | EC ₅₀ | 48 hours | daphnia magna | No information available | 7.800 mg/l (ethanol) | - | | | | |
| Algae/aquatic plants | IC ₅₀ | 4 days | algae | No information available | 5.000 mg/l / 7d (ethanol) | - | | | | |
| Other organisms | - | - | - | - | - | - | | | | |
| Chronic (long-term) toxicity | Dose | Exposure time | Species | Method | Evaluation | Note | | | | |
| Fish | LC ₅₀ | 96 hours | No information available | No information available | No information available | - | | | | |



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| | 1 | | | | | | Page 12 01 1 | 1 |
|---------------------|------------------------------|---------------------------|--------------------------|-----------------------------|--------------------------------|-------------------------|-----------------------------|-------|
| Trading name | : | | | HIST | ANOL 100 | | | |
| Product code | : F | H100-X** | | Revision date: | 05 Dec 20 |)22 | Version: | 6 |
| | | | | | | | | |
| Crustacea: | | EC ₅₀ | 48 hours | No information available | No information available | No informa available | ation - | |
| Algae/aquatic | plants | IC ₅₀ | 72 hours | No information available | No information available | No informa available | ation _ | |
| Other organisn | ns | - | - | - | - | - | - | |
| 12.2 | | | | | | | | |
| | | and degradat | oility | | | | | |
| Abioti | | adation | | | | | | |
| | De | egradation h | alt-lives | Method | Evaluatio | | Note | |
| Marine water | No i | nformation a | wailable | No information available | No informatio available | n - | | |
| Fresh water | No i | nformation a | ivailable | No information available | No informatio available | n - | | |
| Air | No information available | | No information available | No information available | | - | | |
| Soil | oil No information available | | No information available | No informatio available | - | | | |
| Biode | gradati | ion | | | | | | |
| % Degradati | - | Time (d | days) | Method | Evaluatio | n | Note | |
| No information | | | formation | No information available | No informatio available | n No | No information available | |
| | | | | | | | | |
| | 1 | | | | | : | | |
| | | tive potentia | | | | | | |
| | | er partition c | | | | | | |
| Value Log Pow: ~ | Cor - | ncentration | рН | °C Method | Evalu | | Note | es no |
| 0.32 | | | | | | | pioaccumulate | |
| | | | | | | | | |
| Biocor Value | ncentra | ation factor (I Specie | | Method | Evaluat | ion | Note | |
| value | | Specie | د. | Methou | ∟vaiudt | | NOLE | |



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| Tradir | ng name: | | | | | | HISTAN | NOL 10 | 0 | | | | |
|---------|------------------------------------|-------------------|----------------------------|-----------------------|-----------------------|------------------------|----------------------|-------------------------|-----------------|------------------------|---------------|----------|----------|
| Produ | ct code: | H100 | I-X** | | Revis | ion da | ate: | 05 D | ec 202 | 22 | | Version: | 6 |
| BCF: 0. | 66 | No availa | inform ble | ation | No infor available | | on | No info availab | | on | - | | |
| | Chronic | ecotoxici | tv | | | | | | | | | | |
| | Value | | Dose | - | osure ime | Spe | ecies | Meth | nod | Eval | uation | Note | <u>.</u> |
| Chroni | c toxicity c | on fish | LC ₅₀ | No infor availa | mation able | No inforr availa | mation able | No inform availab | | No inforn availa | nation ble | - | |
| | c toxicity c cea (<i>Daphr</i> | | EC ₅₀ | No infor availa | mation able | No inforr availa | mation able | No inform availab | | No inforn availa | nation ble | - | |
| 12.4 | Mobility | vin coil | | | | | | | | | | | |
| 12.4 | - | | ed distributi | on in e | nvironme | ental c | ompart | ments: | | | | | |
| | | rmation a | | | | | | | | | | | |
| | Surface | | | | | | | | | | | | |
| | Valu | e | °C | C | oncentrat | tion | | Metho | d | | | Note | |
| | No informa available | | o formation ⁄ailable | | informat ailable | ion | No inf availal | ormation ble | n | - | | | |
| | | | | | | | | | | | | | |
| | Adsorpt | ion / deso | orption | | | | | | | | | | |
| Transp | ort | | oefficient s constant | lc | og Kow | E١ | /aporati | on rate | | Methoo | b | Note | |
| Soil-wa | ater | No i available | nformation | No ir availa | nformatio able | | o inform ailable | nation | No ir availa | nformat able | tion | - | |
| Water- | -air | No i available | nformation | No ir availa | nformatio able | | o inform ailable | nation | No ir availa | nformat able | tion | - | |
| Soil-ai | r | No i available | nformation e | No ir availa | nformatio able | | o inform 'ailable | nation | No ir availa | nformat able | tion | - | |
| | | | | | | | | | | | | | |
| 12.5 | | | d vPvB asses | | | | | | | | | | |
| | Based o | n availabl | e data, the p | produc | t does no | t cont | ain any | PBT or v | PvB su | bstance | es. | | |



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| Trading name: | HISTANOL 100 | | | | | |
|---------------|--------------|----------------|-------------|----------|---|--|
| Product code: | H100-X** | Revision date: | 05 Dec 2022 | Version: | 6 | |

| 12.6. | Endocrine disrupting propert | es |
|---------|--|--|
| | Based on available data, does | not contain endocrine disruptors. |
| | | |
| 12.7. | Other adverse effects | |
| | Do not let the product or its r | esidues reach sewer system, waterways and soil. |
| | | |
| SECTIO | N 13. Disposal consideration | s |
| 13.1 | Waste treatment methods | |
| | | |
| 13.1.1. | Product/Packaging disposa | |
| | Submit for disposal to the least of the second seco | egal person authorized by the Ministry of Environmental and Nature |
| | Protection. | |
| 13.1.2. | Waste codes/waste designa | ations according to Law. |
| 13.1.2. | | idual hazardous substances or is contaminated with hazardous substances |
| | | |
| 13.1.3. | Waste treatment – relevant | information: |
| | No information available | |
| | | |
| 13.1.4. | Sewage disposal – relevant | information: |
| | Waste must not be dispose | d of into the sewage system. |
| | | |
| 13.1.5. | Other disposal recommend | |
| | authorized by the ministry | duct's remains into the sewage system. Submit the remains to the collectors in charge. Do not dispose of the packaging into the sewage system. Submit ctors authorized by the ministry in charge. Unused product residues may be |
| | burnt. | ······································ |
| 13.1.6. | Relevant Community provis | ions: |
| | Disposal must be made acc | ording to official regulations. |
| | | |
| SECTIO | N 14 TRANSPORT INFORMA | TION |
| | Transporting/shipment by roa | ad (ADR) |
| UN nun | nber: | 1170 |
| UN pro | per shipping name: | Ethanol solution |
| Transpo | ort hazard class(es): | 3 |
| Packing | l group: | II |



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| Trading name: | | HISTANOL 100 | | | | | |
|---------------------------------------|--|------------------|-------------|----------|---|--|--|
| Product code: | H100-X** | Revision date: | 05 Dec 2022 | Version: | 6 | | |
| | : | 1 | 1 | | | | |
| Environmentally ha | zardous: | - | | | | | |
| Special precautions | s for user: | - | | | | | |
| Transporti | ng/shipment by rail (RI | D) | | | | | |
| UN number: | | 1170 | | | | | |
| UN proper shipping | g name: | Ethanol solution | | | | | |
| Transport hazard cl | ass(es): | 3 | | | | | |
| Packing group: | | II | | | | | |
| Environmentally ha | zardous: | - | | | | | |
| Special precautions | s for user: | - | | | | | |
| Inland wat | erway transport (ADN) | | | | | | |
| UN number: | | 1170 | | | | | |
| UN proper shipping | g name: | Ethanol solution | | | | | |
| Transport hazard cl | ass(es): | 3 | | | | | |
| Packing group: | | | | | | | |
| Environmentally ha | zardous: | - | | | | | |
| Special precautions | s for user: | - | | | | | |
| Transporti | ng/shipment by sea (IN | /IDG) | | | | | |
| UN number: | | 1170 | | | | | |
| UN proper shipping | g name: | Ethanol solution | | | | | |
| Transport hazard cl | ass(es): | 3 | | | | | |
| Packing group: | | II | | | | | |
| Environmentally ha | zardous: | - | | | | | |
| Special precautions | s for user: | - | | | | | |
| Transport in bulk a of MARPOL 73/78 a | according to Annex II and the IBC code: | - | | | | | |
| Transporti | ng/shipment by air (IC/ | 40-TI/IATA-DGR) | | | | | |
| UN number: | | 1170 | | | | | |
| UN proper shipping | g name: | Ethanol solution | | | | | |
| Transport hazard cl | ass(es): | 3 | | | | | |
| Packing group: | | II | | | | | |
| Environmentally ha | zardous: | - | | | | | |
| Special precautions | s for user: | - | | | | | |
| | | | | | | | |
| Further information | n: - | | | | | | |

SECTION 15. Regulatory information



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| Trading name: | | HISTANC | DL 100 | | |
|---------------|----------|----------------|-------------|----------|---|
| Product code: | H100-X** | Revision date: | 05 Dec 2022 | Version: | 6 |

| | EU regulations | |
|------|--|--|
| | Authorization and/or rest | rictions of use |
| | Authorizations: | - |
| | Restrictions: | - |
| | Other EU regulations: | Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work: |
| | Other EO regulations. | of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). REACH Restrictions on the manufacturing, placing on the market and use of certain |
| | Information according 19 guideline) | dangerous substances, mixtures and articles (Annex XVII); 99/13/EC about limitation of emissions of volatile organic compounds (VOC- |
| | National legislation: | Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act |
| 15.2 | Chemical safety assessme | ent |
| | None | |

| SECTIO | ON 16. Other information | |
|--------|--------------------------|---|
| 16.1 | Indication of changes: | - |



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| Trading name: | | | HISTA | NOL 100 | | | |
|---------------|-------------------------|---------------------------------------|--|---|---|--------|--|
| Produ | ct code: | H100-X** | Revision date: | 05 Dec 2022 | Version: | 6 | |
| 16.2 | Abbrevia | tions and acronyms: | DNEL:Derived No-Effect LLC50:Lethal concentrationLD50:Lethal dose, 50 percPBT:Persistent, Bioaccur | t Concerning the Internations of Code for Dangerous Gonsport Association d System of Classification a of Existing Commercial Cl Service (division of the Amevel (UK REACH) n, 50 percent cent | onal Carriage of Dang ods and Labelling of Chem hemical Substances | gerous | |
| 16.3. | Key litera source of | ture references and data: | Manufacturer's MSDS file. | | | | |
| 16.4. | Classifica 1272/200 | · · · · · · · · · · · · · · · · · · · | used to derive the classificati | on for mixture accordin | g to Regulation (EC | .) | |
| Classifi | ication | | Classification procedure | | | | |
| - | | | - | | | | |
| 16.5. | Relevant | H statements (numb | er and full text) | | | | |
| | H: 2 | 225 | Highly flammable liquid and | d vapor. | | | |
| 16.6. | Training a | advice: | - | | | | |
| 16.7. | Further ir | nformation: | ** "X" in the product code r the product) We are not responsible for instructions for use or impro material safety data sheet. | consequences in case of | f failure to comply v | | |

ANNEX: Exposure scenario resulting to chemical safety assessment



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| Trading name: | | HISTAN | OL 95 | | |
|---------------|---------|----------------|-------------|----------|---|
| Product code: | H95-X** | Revision date: | 05 Dec 2022 | Version: | 6 |

| 1.1 | Product identifier | | | | | |
|-----|----------------------------------|--|--|--|--|--|
| | Trading name: | HISTANOL | 95 | | | |
| | Chemical name: | Ethyl alcoh | ol | | | |
| | Catalogue number: | H95-X** | | | | |
| 1.2 | Relevant identified us | es of the subs | tance or n | nixture and uses advised against | | |
| | Uses: | | For use | in histocytology and cytology sample processing. | | |
| | Uses advised against: | | Only the comsum | e identified uses are advised. Unsuitable for human nption. | | |
| | Reason why uses advised against: | | The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes. | | | |
| 1.3 | Details of the supplier | Details of the supplier of the safety data sheet | | | | |
| | Supplier: | | BioGnost Ltd. | | | |
| | Address: | Address: | | Medjugorska 59, Zagreb | | |
| | Telephone number: | | +385 1 2409997 | | | |
| | Telefax.: | | +385 1 2404039 | | | |
| | e-mail of competent p | e-mail of competent person: | | msds@biognost.hr | | |
| | National contact: | | - | | | |
| 1.4 | Emergency telephone | number | | | | |
| | National Protection a | nd Rescue Dire | ectorate: | 112 | | |
| | Medical information: | | | +385 1 2348 342 | | |
| | Other information: | | | | | |

| SECTIO | SECTION 2. Hazards identification | | | | |
|----------|------------------------------------|--------------------|----------------|---------------------|--|
| 2.1 | Classification of the substance of | or mixture | | | |
| 2.1.1 | Classification according to Regu | ulation (EC) No 12 | 272/2008 (CLP) | | |
| | Hazard class and catego | ory code: | | Hazard statements*: | |
| | Flam. Liq. 2 | | H225 | | |
| 2.1.2. | Additional information | | | | |
| | - | | | | |
| *For ful | text of Hazard- and EU Hazard- | statements: see S | ECTION 16 | | |
| 2.2 | Label elements | | | | |
| | Product identification: | HISTANOL 95 | | | |
| | Identification number: | - | | | |
| | Authorization number: | - | | | |



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| Trading name: | | NOL 95 | | | |
|---------------|---------|----------------|-------------|----------|---|
| Product code: | H95-X** | Revision date: | 05 Dec 2022 | Version: | 6 |

| | Hazard pictograms: | GHS02 | |
|-----|---|---|--|
| | Signal word: | Danger | |
| | Hazard statements: | H225 Highly flammable liquid and vapor. | |
| | Precautionary statements: | P210 Keep away from heat, hot sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P280 Wear protective gloves/protective clothing/eye/protection/face protection. P403+P235 Store in a well-ventilated place. Keep cool. | |
| | Supplemetal hazard information (EU): | - | |
| 2.3 | Other hazards | | |
| | The product has no other know | n specific hazards for human or environment. | |
| | Results of PBT and vPvB assessment: Based on available data, the product does not contain any PBT or vPvB substances. | | |
| | Endocrine disrupting property: | Based on available data, does not contain endocrine disruptors. | |

| SECTION 3. Co | SECTION 3. Composition/information on ingredients | | | | | | |
|--|---|--------------------------------|---------------------|--|--|--|--|
| CAS/ EC/ Index number | REACH Registration No | Weight % content (or range) | Identification name | Classification according to Regulation (EC) No 1272/2008 (CLP) | | | |
| 64-17-5/ 200-578-6/ 603-002-00-5 | 01-2119457610-43- 0147 | ~ 95% | ethanol | Flam. Liq. 2; H225 | | | |

| SECTI | SECTION 4. First aid measures | | | | |
|-------|--------------------------------|--|--|--|--|
| 4.1 | Description of first aid measu | res | | | |
| | General notes: | If the suggested first aid measures do not prove sufficient, seek medical attention. | | | |
| | Following inhalation: | Take the victim into fresh air, loosen his clothes and place him in a comfortable position. If breathing difficulty occurs, administer artificial respiration. In case of complaints call a physician. | | | |
| | Following skin contact: | Remove the contaminated clothes. Wash the skin surface under plenty of running water. Seek medical assistance if the symptoms of irritation remain. | | | |



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| Trading name: | | NOL 95 | - | | |
|---------------|---------|----------------|-------------|----------|---|
| Product code: | H95-X** | Revision date: | 05 Dec 2022 | Version: | 6 |

| | Following eye contact: | In case of contact with eyes flush with water holding eyelids apart and moving the eyeballs (for at least 10 minutes). If the symptoms remain, immediately call in ophthalmologist. | | |
|-----|--|--|--|--|
| | Following ingestion: | Place the victim in a comfortable position. Rinse the mouth with clean water. If the victim is conscious induce vomiting.Do not give the victim anything orally, and do not induce vomiting if the victim is unconscious or suffers from convulsions. | | |
| | Self-protection of the first aider: | - | | |
| 4.2 | Most important symptoms and effects, both acute and delayed | | | |
| | Following inhalation: | Inhalation of larger quantities may affect the central nervous system. | | |
| | Following skin contact: | Prolonged or repeated dermal contact may cause the defatting and dryness of the skin. | | |
| | Following eye contact: | May irritate the eyes. | | |
| | Following ingestion: | Ingestion of larger quantities may affect the central nervous system. | | |
| 4.3 | Indication of any immediate medical attention and special treatment needed If larger quantities have entered the body, obtain medical treatment (gastric lavage, activated carbon). | | | |

| SECTIO | ON 5. Firefighting measures | | |
|--------|---|--|--|
| 5.1 | Extinguishing media | | |
| | Suitable extinguishing media: | Extinguishing powder, alcohol-resistant foam, water, carbon-dioxide. | |
| | Unsuitable extinguishing media: | Water with full jet. | |
| 5.2 | Special hazards arising from the su | ibstance or mixture | |
| | Hazardous combustion products: | Highly flammable liquid and vapour. In case of fire, smoke, and other combustion products (carbon monoxide, carbon dioxide) may be formed, the inhalation of such combustion products can have serious adverse effects on health. Vapours may form an explosive mix with air. Vapours may be ignited by open flames, sparks, electrical equipment, or static charge. Vapours may travel to great distances, ignite in contact with ignition sources and flash back to the primer source (container). Vapours of ethyl alcohol mix greatly with air and may form an explosive mixture. Air containing 3.3 – 19 % ethyl alcohol vapours may explode in contact with ignition sources. Diluting the mixture with large amounts of water results in the loss of its flammability (around 10 % concentration of ethyl alcohol). | |
| 5.3 | Advice for firefighters | | |
| | Wear full protective clothing and self-contained breathing apparatus. Cool the fire affected containers with water spray. Use water spray to dissipate alcohol vapours. | | |
| 5.4 | Additional information | | |
| | - | | |



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| Trading name: | HISTANOL 95 | | | | | |
|---------------|-------------|----------------|-------------|----------|---|--|
| Product code: | H95-X** | Revision date: | 05 Dec 2022 | Version: | 6 | |

| 6.1 | Personal precautions, protective equipment and emergency procedures | | | | |
|--------|---|---|--|--|--|
| 6.1.1. | For non-emergency personnel | | | | |
| | Protective equipment: | Use personal protective equipment (see Section 8). | | | |
| | Accident prevention methods: | Evacuate members of all non-essential personnel and those members without protective equipment. | | | |
| | Emergency procedures: | Mark the area using proper signs. | | | |
| 6.1.2. | For emergency responders: | | | | |
| | ventilation. Vapours may accur | nd clothing and inhaling gases, vapours and aerosols. Ensure adequate mulate at floor level in low and confined spaces. Remove all heat, ignition chines. Ignition spark arrestor must not be operated in the danger area. Use the risk of slipping. | | | |
| 6.2 | Environmental precautions: | | | | |
| | resulting waste according to the applicable environmental regulations. Do e resulting waste to enter sewers/soil/surface or ground water. Notify the dance with local law in the case of environmental pollution immediately. | | | | |
| 6.3 | Methods and material for cont | ainment and cleaning up | | | |
| 6.3.1. | Bunding, covering of drains; capping procedures: | Sand protective barrier or barriers made of similar materials. | | | |
| 6.3.2. | Cleaning up: | Collect the spilled product with inert, non-combustible absorbent (e.g. sand, vermiculite, earth) then place into a suitable, closed, properly labelled chemical waste container for removal/disposal. During the collection, placement, disposal of the waste, wear appropriate individual protective equipment. Flush the remains with plenty of water. The product loses its flammability, if diluted with significant amount of water (approx. 10% solution). | | | |
| 6.3.3. | Other information: | Secure proper ventilation. Do not use incompatible materials (see Section 10). | | | |
| 6.4 | Reference to other sections | | | | |
| | See Section 7 for information on safe handling. | | | | |
| | See Section 8 for information on personal protection equipment. | | | | |
| | See Section 13 for disposal information. | | | | |

| SECTIO | SECTION 7. Handling and storage | | |
|--------|---------------------------------|--|--|
| 7.1 | Precautions for safe handling | | |
| 7.1.1. | Protection measures | | |



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| Tradiı | ng name: | | | HISTA | NOL 95 | | | | |
|--------|---|-----------------------|--------------------|-----------------------------|---|--|-----------------|--|--|
| Produ | uct code: | H95-X** | Revision | date: | 05 Dec 2022 | Version: | 6 | | |
| | Measures | to prevent fire: | | | Use in well ventilat away from heat, he flames and other smoking. Use no equipment. | ot surfaces, sparks r ignition source | , open s. No | | |
| | Measures | to prevent aerosol | and dust generatio | n: | Ensure adequate ve | entilation. | | | |
| | Measures | to protect the envir | onment: | | Prevent spilling into the sewage system and waterways. Protect against electrostatic charges. | | | | |
| | Other me | asures: | | | | | | | |
| 7.1.2. | Advice or | n general occupatior | al hygiene: | | | | | | |
| | Do not ea | at, drink or smoke in | the workspace. Th | oroughly v | wash hands after work a | nd before eating. | | | |
| 7.2 | 2 Conditions for safe storage, including any incomp | | | patibilities | 5 | | | | |
| | Technical measures and storage conditions: | | | away fr unopen from c | Store in a well-ventilated place, protected from sunlight away from sources of heat and ignition, in its original unopened and hermetically sealed packaging, away from oxidizing agents, food, feed and articles of consumption. | | | | |
| | Packaging | g materials: | | Manufa | cturer's original packag | ing. | | | |
| | Requirem | ents for storage roo | ms and vessels: | Keep av tightly d | vay from food and drinl closed. | <. Keep the contain | ners | | |
| | Advices fo | or storage equipmer | nt: | be resis directly | he storage must be made of hard material; floors m e resistant to chemicals. There must be no drain t irectly leads into sewage system. Secure pro entilation. | | | | |
| | Further in | formation on storag | e conditions: | and do | place the unused mate not use empty conta als. Do not store with inc 10). | ainers for storing | other | | |
| 7.3 | Specific e | nd use(s) | | | | | | | |
| | Recomme | endations: | | - | | | | | |
| | Industrial | sector specific solut | ions: | - | | | | | |

| SECTION 8. Exposure controls/personal protection | | | | | | | | |
|--|---------|--------|---------------------------------|-------------------------|--|--|--|--|
| 8.1 Control parameters | | | | | | | | |
| Substance | CAS No | | exposure limit t term values | Biological limit values | | | | |
| | | ppm | mg/m ³ | - | | | | |
| Ethanol | 64-17-5 | 1000/- | 1900/- | - | | | | |
| | | | | | | | | |
| Substance name: - | | | | | | | | |



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| r | | | | | | | | | Page 6 of 1 | <i>I</i> | |
|--|---------------------|-------------------------|-----------------|---------|-------------|-----------------------------------|--|------------------------------------|---|--------------|--|
| Trading na | me: | | | | | HIS | FANOL 95 | | *** | | |
| Product co | de: | H95-X** | r | | Revisio | on date: | 05 Dec 2022 | | Version: | 6 | |
| | | | | | | | 1 | | | | |
| EC No: | | - | CAS No | : | - | | | | | | |
| DNEL | | | | | | | | | | | |
| | | | | | Inc | lustrial | | 1 | | | |
| Route of | | Acu | | | Acute . | | Chronic | | Chronic | | |
| exposure: | | effect | local | | ct systemic | | effect local | | effect systemic | | |
| Oral | | - 1900 mg | /m ³ | - | | - | | - | | | |
| Inhalation | | (ethanol) | | - | | - 380 mg/m ³ (ethanol) | | | | | |
| Dermal | | - | | - | | - 343 mg/kg (ethanol) | | | | | |
| Dermal - - 343 mg/kg (ethanol) Critical physical parameters: solubility, flammability, corrosivity: - - Consumer Route of exposure: Acute Acute Chronic effect local effect systemic effect local effect systemic | | | | | | | | | | | |
| | | | | | Co | nsumer | | | | | |
| Route of | | Ac | cute | | Acute | | Chronic | | Chronic | | |
| exposure: | | effec | t local | effe | ct systemic | 5 | effect local | e | effect systemic | | |
| Oral | | - | | - | | - | | 87 mg/k | kg bw/day (eth | anol) | |
| Inhalation | | 950 m (ethan | - | - | | - | | 114 mg, | /m ³ (ethanol) | | |
| Dermal | | - | | - | | - | | 206 mg, | /kg (ethanol) | | |
| PNEC | | | | | | | | | | | |
| Environmen | tal prote | ection targ | get | | | PNEC | | | | | |
| Fresh water | | | | | | 0.96 mg/l (ethanol) | | | | | |
| Freshwater s | sedimen | ts | | | | 3.6 mg/kg (ethanol) | | | | | |
| Marine wate | er | | | | | 0.79 mg/l (ethanol) | | | | | |
| Marine sedi | ments | | | | | 2.9 mg/kg (ethanol) | | | | | |
| Food chain | | | | | | 380-720 | mg/kg (ethanol) | | | | |
| Microorgani | isms in s | ewage tre | eatment | | | 580 mg/ | (ethanol) | | | | |
| Soil (agricul | tural) | | | | | 0.63 mg/ | 'kg (ethanol) | | | | |
| Air | | | | | | no information available | | | | | |
| | | | | | | | | | | | |
| 8.2 | Exposu | re control | s | | | | | | | | |
| 8.2.1. | Approp | oriate eng | ineering | control | s | | | | | | |
| | | nce/mixtu : exposure | | | | concentr concentr existing | of a hazardous m ation limit it is the ation levels down t scientific and techr us substance poses n | e employ o a minin nological | er's duty to l num achievabl means, where | keep e by | |
| | Structur exposur | ral measu re: | res to pr | event | | In accord | lance with Section 7. | | | | |



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| Trading name: | | HISTANOL 95 | | | | | | | |
|---------------|-----------------|---|---|---|---|--|--------------|--|--|
| 5 | | | | | | | | | |
| Product | code: | H95-X** | Revisi | on date: | 05 Dec 2022 | Version: | 6 | | |
| | Orgai expos | nisational measures to pre sure: | vent | Organization of work in order to reduce other worker's influence during work process. | | | | | |
| | Techr | Technical measures to prevent exposure: | | | | | | | |
| | | | | Provide ap | parkling ventilation syst ppropriate personal prot d eye-wash station. | | ty | | |
| 8.2.2. | Perso | nal protection equipment | | 1 | | | | | |
| 8.2.2.1. | Eye a | nd face protection: | • | se appropriate, chemical-proof protective glasses/face shield (El O 16321-1:2022, EN 166). | | | | | |
| 8.2.2.2. | Skin p | protection | | | | | | | |
| | Hand | protection: | propriate, c | hemical-resistant protec | tive gloves (EN 374). | | | | |
| | Other | skin protection: | Use ap | propriate p | rotective clothing. | | | | |
| 8.2.2.3. | Respi | ratory protection: | concer in the contac | ntration of e air, use a t and if the o | I usage and ventilatio thyl alcohol exceeds occ self-contained breathi oxygen content of the ai ask with filter A (EN 148 | cupational exposure lin ng apparatus. For sh r is greater than 18 %, u | nits Iort | | |
| 8.2.2.4. | Thern | nal hazards: | No the | ermal hazard | ls known. | | | | |
| 8.2.3. | Enviro | onmental exposure contro | ls | | | | | | |
| | | ance/mixture related ures to prevent exposure: | See Se | ction 6 | | | | | |
| | Struct expos | tural measures to prevent sure: | Use mo | Use modern equipment. | | | | | |
| | - | nisational measures to nt exposure: | Adapt the work process to the required working conditions of t workplace. | | | | | | |
| | Techr expos | nical measures to prevent sure: | See Se | ction 6 | | | | | |

| SECTI | SECTION 9. Physical and chemical properties | | | | | | |
|-------|---|---------------------------------------|--------------------------|--|--|--|--|
| 9.1 | Information on basic physical and | chemical properties | | | | | |
| | Value Method | | | | | | |
| | Physical state: | liquid | No information available | | | | |
| | Colour: | colourless | No information available | | | | |
| | Odour/odour threshold: | ethanol like/no information available | No information available | | | | |
| | Melting point / freezing point: | No information available | No information available | | | | |



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| Trading name: | | HISTA | NOL 95 | | |
|---------------|---------|----------------|-------------|----------|---|
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| | Boiling point or initial boiling point and boiling range: | No information available | No information available | | |
|-----|---|-------------------------------------|--------------------------|--|--|
| | Flammability: | No information available | No information available | | |
| | Lower and upper explosion limit: | lower: 3.3 Vol % upper: 19 Vol % | No information available | | |
| | Flash point: | 13 °C | No information available | | |
| | Auto-ignition temperature: | No information available | No information available | | |
| | Decomposition temperature: | No information available | No information available | | |
| | pH: | No information available | No information available | | |
| | Kinematic viscosity: | No information available | No information available | | |
| | Solubility: | in water completely miscible | No information available | | |
| | Partition coefficient n- octanol/water (log value): | No information available | No information available | | |
| | Vapour pressure: | No information available | No information available | | |
| | Density and/or relative density: | ~ 0.805 (20°C) | No information available | | |
| | Relative vapour density: | No information available | No information available | | |
| | Particle characteristics: | No information available | No information available | | |
| 9.2 | Other information | | | | |
| | Explosive properties: the vapours f | rom ethyl alcohol form an expl | osive mixture with air | | |

| SECTI | SECTION 10. Stability and reactivity | | | | | |
|-------|--------------------------------------|--|--|--|--|--|
| 10.1 | Reactivity: | See Section 10.5. | | | | |
| 10.2 | Chemical stability: | Stable within normal temperature and general work conditions. | | | | |
| 10.3 | Possibility of hazardous reactions: | See Section 10.5. | | | | |
| 10.4 | Conditions to avoid: | Keep away from heat, sparks, open flames, strong heating and ignition sources. No smoking. | | | | |
| 10.5 | Incompatible materials: | Strong oxidizing agents (inorganic strong acid, nitric acid, perchlorates, peroxy compounds, perchloric acid, permanganates etc.), alkali metals, alkali earth metals. | | | | |
| 10.6 | Hazardous decomposition products: | Carbon monoxide and carbon dioxide. | | | | |

| SECTIO | SECTION 11. Toxicological information | | | | | | | |
|--------------------|--|--------|---------|--|---------------|---------|--|--|
| 11.1 | 1.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 | | | | | | | |
| | Acute toxicity: | | | | | | | |
| Route o exposur | | Method | Species | Dose LD ₅₀ /LC ₅₀ or ATE _{mix} | Exposure time | Results | | |



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| | | | | | | | Page | 9 of 1 | 1 |
|------------------------------|-------------------------|----------------------------------|--------------------------|------------------|------------------------------|-----------------------------|--------------|----------|-----------------|
| Trading name: | | | | HIST | ANOL 95 | | | | |
| Product code: | H95-X** | Re | Revision date: 05 Dec 20 | | 022 | Versio | | 6 | |
| | | | | | | | | | |
| Oral: | - | rat (ethanol) | | LD ₅₀ |) | - | 7 | 7.060 m | ng/kg |
| Dermal: | - | rabbit (ethanol | l) | LD ₅₀ |) | - | > | 20.000 |) mg/l |
| Inhalation: | - | rat (ethanol) | | LC ₅₀ | I | 4 h | | >8.000 | mg/l |
| Coocific to | waat araan ta | vicity cingle eve | | | | | | | |
| Specific ta | | xicity – single exp | osure (STC | JT SE): | | | | | |
| <u> </u> | | Specific effects | | | Target organ | | | Vote | |
| Oral: | | tion available | | | ormation availa | | - | | |
| Dermal: | | tion available | | | ormation availa | | - | | |
| Inhalation: | No informa | tion available | ſ | No into | ormation availa | able | - | | |
| Aspiratior | hazard: | Ν | No informa | ation a | vailable. | | | | |
| | | | | | | | | | |
| Irritation | and corrosion | | | | | | | | |
| i | Expo | osure time | Species | s | Evaluation | Method | | Note | |
| Skin corrosion/irritatior | - : | - | | | - | - | - | | |
| Serious eye | - | - | | | - | - | - | | |
| damage/irritation | | | | | | | | | |
| Sensitizat | ion | | | | | | | | |
| Skin sensitization: | 1 | o information avai | lable. | | | | | | |
| Respiratory sensiti | | o information avai | | | | | | | |
| | | | | | | | | | |
| Symptom | s related to th | e physical, chemic | cal and to | kicolog | ical characteri | stics | | | |
| Oral exposure: | Absorpti unconsci | on of great of ousness and alcol | quantities nol poison | may ing. In | cause dizz case of swallo | ziness, dru wing great o | • | nause | horia, a and |
| Dermal exposure: | After pro cracking | olonged or repea of skin. | ated expo | sure s | symptoms ma | y include: | defatting, | dryne | ss an |
| Inhalation exposur | e: Inhalatio membrai | n of great quantiti nes. | es may ca | use diz | ziness, eupho | ria and mild | irritation o | of the r | nucou |
| Eye exposure: | May caus | se irritation and re | edness. | | | | | | |
| Donastad | doso tovicity | (subacute, subchro | onic chro | nic) | | | | | |
| переагео | uuse iuxicity | Exposure | | - | | | | | |
| | Dose | time | Species | | Method | Evaluat | ion | Note | |



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| Trading name: | HISTANOL 95 | | | | | | | | |
|---------------|-------------|----|----------------|-------------|----------|---|--|--|--|
| Product code: | H95-X** | | Revision date: | 05 Dec 2022 | Version: | 6 | | | |
| | | No | No | No | | | | | |

| Subacute oral | No information available | No information available | No information available | No information available | No information available | - |
|------------------------|--------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------|---|
| Subacute dermal | No information available | No information available | No information available | No information available | No information available | - |
| Subacute inhalation | No information available | No information available | No information available | No information available | No information available | - |
| Subchronic oral | No information available | No information available | No information available | No information available | No information available | - |
| Subchronic dermal | No information available | No information available | No information available | No information available | No information available | - |
| Subchronic inhalation | No information available | No information available | No information available | No information available | No information available | - |
| Chronic oral | No information available | No information available | No information available | No information available | No information available | - |
| Chronic dermal | No information available | No information available | No information available | No information available | No information available | - |
| Chronic inhalation | No information available | No information available | No information available | No information available | No information available | - |

| | Specific effects | Target organ | Note |
|-----------------------|--------------------------|--------------------------|------|
| Subacute oral | No information available | No information available | - |
| Subacute dermal | No information available | No information available | - |
| Subacute inhalation | No information available | No information available | - |
| Subchronic oral | No information available | No information available | - |
| Subchronic dermal | No information available | No information available | - |
| Subchronic inhalation | No information available | No information available | - |
| Chronic oral | No information available | No information available | - |
| Chronic dermal | No information available | No information available | - |
| Chronic inhalation | No information available | No information available | _ |



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| | CMR effects (carcinogenicity; mutagenicit | y; re | productive toxicity) | | |
|---------|---|---|---|--|--|
| | Carcinogenicity: | Based on available data, the classification criteria are not met. | | | |
| | Mutagenicity in vitro: | Bas | ed on available data, the classification criteria are not met. | | |
| | Genotoxicity: | Bas | ed on available data, the classification criteria are not met. | | |
| | Mutagenicity in vivo: | Bas | ed on available data, the classification criteria are not met. | | |
| | Germ cell mutagenicity: | Bas | ed on available data, the classification criteria are not met. | | |
| | Reproductive toxicity: Based on available data, the classification criteria are not | | | | |
| | Summary of evaluation of the CN properties: | ЛR | Based on available data, the classification criteria are not met. | | |
| 11.2 | Information on other hazards: | | | | |
| 11.2.1. | Endocrine disrupting properties: | | | | |
| | Based on available data, does not conta endocrine disruptors. | ain | | | |
| 11.2.2. | Other information: | | | | |
| | - | | | | |

| SECTION 12. Ecological information | | | | | | | | |
|------------------------------------|------------------|------------------|--------------------------|--------------------------------|-------------------------------|------|--|--|
| 12.1 Toxicity | | | | | | | | |
| Acute (short-term) toxicity | Dose | Exposure time | Species | Method | Evaluation | Note | | |
| Fish | LC ₅₀ | 96 hours | golden orf | No information available | 8.140 mg/l /48 h (ethanol) | - | | |
| Crustacea: | EC ₅₀ | 48 hours | daphnia magna | No information available | 7.800 mg/l (ethanol) | - | | |
| Algae/aquatic plants | IC ₅₀ | 4 days | algae | No information available | 5.000 mg/l / 7d (ethanol) | - | | |
| Other organisms | - | - | - | - | - | - | | |
| Chronic (long-term) toxicity | Dose | Exposure time | Species | Method | Evaluation | Note | | |
| Fish | LC ₅₀ | 96 hours | No information available | No information available | No information available | - | | |



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| Trading name | • | | | | HIST | ANOL 95 | | | | | |
|-----------------------------|--------------------------------|--------------------------------|-----------|--------------------------|-----------------------------|--------------------------------|-----------------------|-------------------------|----------------------------|--------|--|
| Product code: | | H95-X** | | R | Revision date: | 05 Dec 20 | 22 | Vers | ion: | 6 | |
| Crustacea: | | EC ₅₀ | 48 hours | | No information available | No information available | No infor available | | - | | |
| Algae/aquatic p | lants | IC ₅₀ | 72 hours | | No information available | No information available | No infor available | | - | | |
| Other organism | IS | - | - | | - | - | - | | - | | |
| 12.2 Persist | ence | and degradal | pility | | | | | | | | |
| | | radation | , | | | | | | | | |
| i | | egradation h | alf-lives | | Method | Evaluatio | n | ١ | lote | | |
| Marine water | No | information a | vailable | | information ailable | No information available | n - | | | | |
| Fresh water | water No information available | | wailable | No information available | | No information available | | - | | | |
| Air | No | information a | wailable | No information available | | No information available | | - | | | |
| Soil | No | information a | ivailable | | information ailable | No information available | n - | - | | | |
| | | | | | | | | | | | |
| Biodeg | | | | | | | | | | | |
| % Degradatio | | Time (| | NI - | Method | Evaluatio | | | Note | | |
| No information available | | No in available | formation | | information ailable | No information available | | No informa available | ation | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | ative potentia | | | | | | | | | |
| - | | ter partition c ncentration | | log H °C | 1 | Г. rol | ation | | Nata | | |
| Value Log Pow: ~ 0.32 | - | ncentration | рН | _ | Method - | Evalu | ation | The pro bioaccu | Note duct doe mulate | es not | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 1 | centr | ation factor (| | | Mathad | F | <u></u> | | Note | | |
| Value | | Specie | 52 | | Method | Evaluati | | | Note | | |



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| Tradir | ng name: | | | | | | HISTA | NOL 95 | | | | - | |
|---------|----------------------------------|-------------------|-----------------------------|-----------------------|-----------------------|------------------------|---------------------|-------------------------|----------------|-------------------------|--------|----------|---|
| Produ | ct code: | H95- | -X** | | Revisi | ion da | ate: | 05 D | ec 202 | 22 | | Version: | 6 |
| BCF: 0. | .66 | No availa | inform able | ation | No infor available | | n | No info availab | | on | - | | |
| | Chronic | ecotoxic | i+\ <i>/</i> | | | | | 1 | | | 1 | | |
| | Chronic | | ity | Evo | osure | | | | | | | | |
| | Value | | Dose | - | ime | Spe | ecies | Meth | nod | Evalu | uation | Note | ! |
| Chroni | ic toxicity | on fish | LC ₅₀ | No infor availa | mation | No inforr availa | mation able | No inform availab | | No inform availat | | - | |
| | ic toxicity cea (<i>Daph</i> | | EC ₅₀ | No infor availa | mation | No inforr availa | mation able | No inform availab | | No inform availat | | - | |
| | | | | | | | | | | | | | |
| 12.4 | Mobility | y in soil | | | | | | | | | | | |
| | | - | ted distributi | on in e | environme | ental c | compart | ments: | | | | | |
| | No info | rmation a | vailable | | | | | | | | | | |
| | Surface | tension: | | | | | | | | | | | |
| | Valu | | °C | C | oncentrat | ion | | Metho | d | | | Note | |
| | No informa availabl | | o Iformation vailable | _ | informati ailable | ion | No inf availal | ormation ole | n | - | | | |
| | | | | | | | | | | | | | |
| | Adsorp | tion / des | orption | | | | | | | | | | |
| Transp | oort | - | oefficient s constant | lc | og Kow | E١ | /aporati | on rate | | Method | | Note | |
| Soil-wa | ater | No i available | nformation e | No ir availa | nformation able | | o inform ailable | nation | No ir avail | nformati able | ion | - | |
| Water- | -air | No i available | information e | No ir availa | nformation able | | o inform ailable | nation | No ir avail | nformati able | ion | - | |
| Soil-ai | r | No i available | information | No ir availa | nformation able | | o inform ailable | nation | No ir avail | nformati able | ion | - | |
| | | | | | | : | | | • | | | | |
| 12.5 | Results | of PBT an | nd vPvB asses | ssment | | | | | | | | | |
| | Based c | on availab | le data, the p | produc | t does no | t cont | ain any | PBT or v | PvB su | Ibstance | S. | | |



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٦

| Trading name: | HISTANOL 95 | | | | | |
|---------------|-------------|----------------|-------------|----------|---|--|
| Product code: | H95-X** | Revision date: | 05 Dec 2022 | Version: | 6 | |

| 12.6. | Endocrine disrupting properties | 3 | | | | |
|---------|--|---|--|--|--|--|
| | Based on available data, does not contain endocrine disruptors. | | | | | |
| | 1 | | | | | |
| 12.7. | Other adverse effects | | | | | |
| | Do not let the product or its res | idues reach sewer system, waterways and soil. | | | | |
| | | | | | | |
| | N 13. Disposal considerations | | | | | |
| 13.1 | Waste treatment methods | | | | | |
| 13.1.1. | Product/Packaging disposali | | | | | |
| 15.1.1. | Product/Packaging disposal: | al names authorized by the Ministry of Environmental and Native | | | | |
| | Protection. | al person authorized by the Ministry of Environmental and Nature | | | | |
| | | | | | | |
| 13.1.2. | Waste codes/waste designation | ons according to Law: | | | | |
| | Packaging that contains residual hazardous substances or is contaminated with hazardous substances | | | | | |
| | | | | | | |
| 13.1.3. | Waste treatment – relevant in | formation: | | | | |
| | No information available | | | | | |
| | ÷ | | | | | |
| 13.1.4. | Sewage disposal – relevant in | formation: | | | | |
| | Waste must not be disposed | of into the sewage system. | | | | |
| | | | | | | |
| 13.1.5. | Other disposal recommendat | | | | | |
| | authorized by the ministry in | ct's remains into the sewage system. Submit the remains to the collectors charge. Do not dispose of the packaging into the sewage system. Submit ors authorized by the ministry in charge. Unused product residues may be | | | | |
| 13.1.6. | Relevant Community provisio | ns: | | | | |
| | Disposal must be made accor | ding to official regulations. | | | | |
| | | | | | | |
| SECTIO | N 14 TRANSPORT INFORMATI | ON | | | | |
| | Transporting/shipment by road | (ADR) | | | | |
| UN nun | nber: | 1170 | | | | |
| UN pro | per shipping name: | Ethanol solution | | | | |
| Transpo | ort hazard class(es): | 3 | | | | |
| Packing | l group: | II | | | | |



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| Trading name: | HISTANOL 95 | | | | |
|---------------------------------------|--|------------------|-------------|----------|---|
| Product code: | H95-X** | Revision date: | 05 Dec 2022 | Version: | 6 |
| | | | | | |
| Environmentally ha | zardous: | - | | | |
| Special precautions | for user: | - | | | |
| Transporti | ng/shipment by rail (RI | D) | | | |
| UN number: | | 1170 | | | |
| UN proper shipping | g name: | Ethanol solution | | | |
| Transport hazard cl | ass(es): | 3 | | | |
| Packing group: | | 11 | | | |
| Environmentally ha | zardous: | - | | | |
| Special precautions | for user: | - | | | |
| Inland wat | erway transport (ADN) | | | | |
| UN number: | | 1170 | | | |
| UN proper shipping | g name: | Ethanol solution | | | |
| Transport hazard cl | ass(es): | 3 | | | |
| Packing group: | | 11 | | | |
| Environmentally ha | zardous: | - | | | |
| Special precautions | for user: | - | | | |
| Transporti | ng/shipment by sea (IN | /IDG) | | | |
| UN number: | | 1170 | | | |
| UN proper shipping | g name: | Ethanol solution | | | |
| Transport hazard cl | ass(es): | 3 | | | |
| Packing group: | | 11 | | | |
| Environmentally ha | | - | | | |
| Special precautions | for user: | - | | | |
| Transport in bulk a of MARPOL 73/78 a | according to Annex II and the IBC code: | - | | | |
| Transporti | ng/shipment by air (IC/ | 40-TI/IATA-DGR) | | | |
| UN number: | | 1170 | | | |
| UN proper shipping | g name: | Ethanol solution | | | |
| Transport hazard cl | ass(es): | 3 | | | |
| Packing group: | | II | | | |
| Environmentally ha | zardous: | - | | | |
| Special precautions | for user: | - | | | |
| | | | | | |
| Further information | n: – | | | | |

SECTION 15. Regulatory information



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| Trading name: | HISTANOL 95 | | | | | |
|---------------|-------------|----------------|-------------|----------|---|--|
| Product code: | H95-X** | Revision date: | 05 Dec 2022 | Version: | 6 | |

| | EU regulations | |
|------|--|---|
| | Authorization and/or rest | rictions of use |
| | Authorizations: | - |
| | Restrictions: | - |
| | | Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 |
| | Other Ell regulations: | on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety |
| | Other EU regulations: | of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; |
| | | COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). |
| | | REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII); |
| | Information according 19 guideline) | 99/13/EC about limitation of emissions of volatile organic compounds (VOC- |
| | National legislation: | Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act |
| 15.2 | Chemical safety assessme | ent |
| | None | |

| SECTION 16. Other information | |
|-------------------------------|---|
| 16.1 Indication of changes: | - |



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| Tradin | ng name: | | | HISTA | NOL 95 | | |
|----------|-----------------------|---|--|------------------------------------|--|-----------------------|----|
| Produ | ict code: | H95-X** | | Revision date: | 05 Dec 2022 | Version: | 6 |
| 16.2 | Abbrevi | ations and acronyms | ADR: Accord relatif au transport international des marchandises dangereuses proute (European Agreement Concerning the International Carriage of Dangero Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative | | | gerous | |
| 16.3. | Key liter source c | rature references and of data: Manufacturer's MSDS file. | | | | | |
| 16.4. | | ation and procedure 108 (CLP) | used to | derive the classificati | on for mixture accordin | g to Regulation (EC | .) |
| Classifi | ication | | Classifi | cation procedure | | | |
| - | | | - | | | | |
| 16.5. | Relevan | t H statements (num | ber and | full text) | | | |
| | H: | 225 | Highly | Highly flammable liquid and vapor. | | | |
| 16.6. | Training | advice: | - | | | | |
| 16.7. | Further | information: | the pro We are instruc | oduct) not responsible for a | narks different volumes consequences in case o oper use of the product | f failure to comply v | - |

ANNEX: Exposure scenario resulting to chemical safety assessment



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| Trading name: | | HEMATO | XYLIN G2 | | |
|---------------|--------------|----------------|---------------|----------|---|
| Product code: | HEMG2-OT-X** | Revision date: | 03 April 2023 | Version: | 8 |

| SECTI | ON 1 IDENTIFICATION | OF THE SUBS | TANCE/MI | XTURE AND OF THE COMPANY/UNDERTAKING | | | |
|--|--|--|------------------------|---|--|--|--|
| 1.1. | Product identifier | Product identifier | | | | | |
| | Trading name: | HEMATOX | 'LIN G2 | | | | |
| | Chemical name: - | | | | | | |
| | Catalogue number: | HEMG2-OT | | | | | |
| 1.2. | 2. Relevant identified uses of the substance or mixture and uses advised against | | | | | | |
| | Uses: | | Hematoxy | lin according to Gill for nuclear staining. | | | |
| | Uses advised against: | | Only the i | dentified uses are advised. | | | |
| Reason why uses advised against: device, registered at the Age | | ict is intended for use only as an <i>in vitro</i> diagnostic medical gistered at the Agency for Medicinal Products and Medical nd there is no reason to use it for other purposes | | | | | |
| 1.3. | Details of the supplier | of the safety | data sheet | | | | |
| | Supplier: | Bi | BioGnost Ltd. | | | | |
| | Address: | Ν | Medjugorska 59, Zagreb | | | | |
| | Telephone number: + | | +385 1 2409997 | | | | |
| | Fax no.: + | | +385 1 2404039 | | | | |
| | e-mail of competent p | erson: <u>m</u> | msds@biognost.hr | | | | |
| | National contact: - | | - | | | | |
| 1.4. | Emergency telephone | number | | | | | |
| | National Protection an | d Rescue Dir | ectorate: | 112 | | | |
| | Medical information: | | | +385 1 2348 342 | | | |
| | Other information: | | | - | | | |

| SECTIO | SECTION 2 HAZARDS INFORMATION | | | | |
|----------|---|---------------------|-----------|--|--|
| 2.1. | Classification of the substance or mixture | | | | |
| 2.1.1. | Classification (REGULATION (EC) No. 1272/2008 (CLP) | | | | |
| | Hazard class and category code: Hazard statements*: | | | | |
| | Acute Tox. 4 H302 | | | | |
| 2.1.2. | Additional information | | | | |
| | - | | | | |
| *For ful | l text of Hazard- and EU Hazard | d-statements: see S | ection 16 | | |
| 2.2. | Label elements | | | | |
| | Product identification: | HEMATOXYLIN G | 2 | | |
| | Identification number: | - | | | |
| | Authorization no.: | - | | | |



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| Trading name: | | HEMATO | | | |
|---------------|--------------|----------------|---------------|----------|---|
| Product code: | HEMG2-OT-X** | Revision date: | 03 April 2023 | Version: | 8 |

| | Hazard pictograms: | GHS07 |
|------|---|---|
| | Signal word: | Warning |
| | Hazard statements: | H302 Harmful if swallowed. |
| | Precautionary statements: | P280 Wear protective gloves/protective clothing/eye/protection/face protection.P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. |
| | Supplemetal hazard information (EU): | - |
| 2.3. | Other hazards | |
| | Endocrine Disrupting Prop No known endocrine disrupt Results of PBT and vPvB as PBT or a vPvB. | |

| SECTION 3 CO | SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS | | | | | | |
|---|--|--------------------------------|------------------------|---|--|--|--|
| CAS/ EC/ Index no. | REACH Registration No | Weight % content (or range) | Identification name | Classification according to Regulation (EC) No 1272/2008 (CLP) | | | |
| 107-21-1/ 203-473-3/ 603-027-00-1 | 01-2119456816- 28-xxxx | 25 - 45 % | ethylene glycol | Acute Tox. 4, H302 | | | |

| SECTI | SECTION 4 FIRST AID MEASURES | | | | |
|-------|--------------------------------|--|--|--|--|
| 4.1. | Description of first aid measu | ires | | | |
| | General notes: | - | | | |
| | Following inhalation: | Carry the afflicted person out of the contaminated area into a well- ventilated area or out for fresh air. If breathing becomes erratic or it stops, immediately apply artificial respiration (other than mouth-to- mouth) and contact a physician. | | | |
| | Following skin contact: | Remove contaminated clothing. Immediately wash with plenty of water and soap. Seek medical assistance if the symptoms of irritation remain. | | | |
| | Following eye contact: | Rinse out with plenty of water with the eyelid held wide open using clean fingers. If the symptoms remain, immediately call a physician. | | | |



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| Trading name: | | HEMAT | OXYLIN G2 | 3 | |
|---------------|--------------|----------------|---------------|----------|---|
| Product code: | HEMG2-OT-X** | Revision date: | 03 April 2023 | Version: | 8 |

| | Following ingestion: | | Do not induce vomiting. Make the afflicted person drink a glass of water. If spontaneous vomiting occurs, wash the mouth with water, then make the person drink 100-200 ml of water and seek medical attention. |
|------|---------------------------------|---|---|
| | Self-protection of the first ai | der: | Treat symptomatically. |
| 4.2. | Most important symptoms a | nd eff | ects, both acute and delayed |
| | Following inhalation: | Inhalation of large amounts of vapors in inadequately ventilated perimeter may cause coughing, sneezing, headache and nausea. | |
| | Following skin contact: | | nt irritation. After short exposure, resorption effects are not likely. Long- n exposure may cause drying, cracking and tingling sensation of skin. |
| | Following eye contact: | Direct eye contact may cause slight to moderate irritation, lacrimate burning sensation. If the symptoms persist, immediately call a phy | |
| | Following ingestion: | Swallowing may cause irritation of mucosa, tingling sensation in the mou burning sensation; higher levels of concentration may cause nausea, abdominal pain and vomiting. In case of vomiting, aspiration causes coughing, difficult breathing. Higher levels of concentration may cause suffocation. | |
| 4.3. | Indication of any immediate | medio | cal attention and special treatment needed |
| | - | | |

| SECTIO | ECTION 5 FIREFIGHTING MEASURES | | | | |
|--------|---|---|--|--|--|
| 5.1. | Extinguishing media | | | | |
| | Suitable extinguishing media: | Small fire - water spray, dry powder, CO ₂ Large fire - water spray or alcohol-resistant foam | | | |
| | Unsuitable extinguishing media: | water jet | | | |
| 5.2. | Special hazards arising from the su | ubstance or mixture | | | |
| | Hazardous combustion products: | No information available | | | |
| 5.3. | Advice for firefighters | | | | |
| | Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing. Cool closed containers exposed to fire with water spray or vapor. | | | | |
| 5.4. | Additional information | | | | |
| | Remove sources of heat and ignition. Do not contaminate the environment with extinguishing media. | | | | |

| SECTIO | SECTION 6 ACCIDENTAL RELEASE MEASURES | | |
|--------|---|--|--|
| 6.1. | Personal precautions, protective equipment and emergency procedures | | |
| 6.1.1. | For non-emergency personnel | | |
| | Protective equipment: | Use personal protective equipment (see Section 8). | |



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| Trading name: | | HEMATOXYLIN G2 | | | | | | |
|---------------|---|---|-----------------|-----------------|---|----------|--|--|
| Produ | ict code: | HEMG2-OT-X** | Rev | ision date: | 03 April 2023 | Version: | 8 | |
| | Accident | prevention methods | s: mei | mbers withou | ers of all non-essen t protective equipme on. Do not smoke. | • | | |
| | Emergen | cy procedures: | Mai | rk the area usi | ng proper signs. | | | |
| 6.1.2. | For emerg | gency responders: | | | | | | |
| | Wear pro | tective equipment (| see Section 8). | | | | | |
| 6.2. | Environm | ental precautions: | | | | | | |
| | Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112. | | | | | | | |
| 6.3. | Methods | and material for cor | ntainment and | cleaning up | | | | |
| 6.3.1. | - | covering of drains; procedures: Sand or clay barriers. | | | | | | |
| 6.3.2. | Cleaning | Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste materi in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involv materials with water. | | | | | e material n well :he legal e | |
| 6.3.3. | Other info | ormation: | - | | | | | |
| 6.4. | Reference | Reference to other sections | | | | | | |
| | See Section 7 for information about secure handling. See Section 8 for information about personal protective equipment. See Section 13 for information about containment. | | | | | | | |

| SECTIO | N 7 HANDLING AN STORAGE | | | | |
|--------|--|--|--|--|--|
| 7.1. | Precautions for safe handling | | | | |
| 7.1.1. | Protection measures | | | | |
| | Measures to prevent fire: | Keep away from sources of heat and ignition. Do not smoke. | | | |
| | Measures to prevent aerosol and dust generation: | Secure proper ventilation. | | | |
| | Measures to protect the environment: | Prevent spilling into the sewage system and waterways. | | | |
| | Other measures: | - | | | |
| 7.1.2. | Advice on general occupational hygiene: | | | | |
| | Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating. | | | | |
| 7.2. | Conditions for safe storage, including any incompat | ibilities | | | |



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| | HEMATOXYLIN G2 | | | | | | | |
|---|----------------|---------------|----------------|--------------|---------------|--|--|--|
| 8 | Version: | 03 April 2023 | Revision date: | HEMG2-OT-X** | Product code: | | | |
| 8 | Version: | 03 April 2023 | Revision date: | HEMG2-OT-X** | Product code: | | | |

| | Technical measures and storage conditions: | Keep in tightly closed and upright set containers in a well ventilated storage rooms, and away from sources of heat, sunlight, and other incompatible substances. |
|------|---|--|
| | Packaging materials: | Manufacturer's original packaging. |
| | Requirements for storage rooms and vessels: | Keep away from food and drink. Keep the containers tightly closed. |
| | Advices for storage equipment: | The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation. |
| | Further information on storage conditions: | Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 9). |
| 7.3. | Specific end use(s) | |
| | Recommendations: | - |
| | Industrial sector specific solutions: | - |

| SECTION 8 E | XPOSUI | | TROLS/PER | SONAL | PROTECTION | | | | |
|--------------------|----------|--------------|-----------------|--------|-------------------|--|---------|--------------------------------|--|
| 8.1. Cont | rol para | l parameters | | | | | | | |
| Subs | tance | | CAS No | | | Occupational exposure limit values/short term values | | ological limit values | |
| | | | | | ppm | mg/m ³ | | | |
| Ethylene glyco | ol | | 107-21 | -1 | 20/40 | 52/104 | No info | rmation available | |
| | | | | | | | | | |
| Substance name: | - | | | | | | | | |
| EC No: | - | | CAS No: | - | | | | | |
| DNEL | | | | | | | | | |
| | | | | | Industrial | | | | |
| Route of | | A | cute | | Acute | Chronic | | Chronic | |
| exposure: | | effe | ect local | eff | ect systemic | effect local | | effect systemic | |
| Oral | | - | | - | | - | | - | |
| Inhalation - | | - | | - | | 35 mg/ kg (ethylene glycol) | | | |
| Dermal - | | - | | - | | - | | 106 mg/kg (ethylene glycol) | |
| Critical physic | al parar | neters: s | olubility, flai | mmabil | ity, corrosivity: | - | | | |
| | | | | | Consumer | · | | | |



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| | | | | | | | Page 6 | 01 10 | | | |
|-------------------|----------------|---|---------------------------------------|------------|---|--|-----------------------|----------|--|--|--|
| Trading I | name: | | | | HEMAT | OXYLIN G2 | | | | | |
| Product code: | | HEMG2-OT-X** Rev | | Revisio | evision date: 03 April 202 | | Version: | 8 | | | |
| | | | | • | | | | | | | |
| Route of exposure | | Acute effect local | | Acut | | Chronic effect local | | onic | | | |
| Oral | • | effect local | | effect sys | temic | effect local | enects | systemic | | | |
| Ulai | | - | - | | | - 7 mg/kg | - | | | | |
| Inhalatior | ı | - | - | | | 7 mg/kg (ethylene glycol) | - | | | | |
| Dermal | | - | - | | | - | 53 mg/kg (glycol) | ethylene | | | |
| PNEC | | I | | | | I | | | | | |
| Environm | ental prot | tection target | | | PNEC | | | | | | |
| Fresh wat | er | | | | 10 mg/l (| (ethylene glycol) | | | | | |
| Freshwate | er sedime | nts | | | 37 mg/kg | g (ethylene glycol) | | | | | |
| Marine wa | ater | | | | 1 mg/l (e | thylene glycol) | | | | | |
| Marine se | ediments | | | | 3.7 mg/k | g (ethylene glycol) | | | | | |
| Food chai | in | | | | No infor | mation available | | | | | |
| Microorga | anisms in | sewage treatment | | | 199.5 mg/l (ethylene glycol) | | | | | | |
| Soil (agric | cultural) | | | | 1.53 mg/ | 'kg (ethylene glycol) | | | | | |
| Air | | | | | No infor | mation available | | | | | |
| | | | | | | | | | | | |
| 8.2. | · · · | Exposure controls | | | | | | | | | |
| 8.2.1. | | eering measures | | | | | | | | | |
| | measu | | | | Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace. | | | | | | |
| | Struct | ural measures to pre ure: | No information available | | | | | | | | |
| | - | ganisational measures to | | | Organization of work in order to reduce other worker's influence during work process. | | | | | | |
| | Techn expos | ical measures to pre ure: | vent | | Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. | | | | | | |
| 8.2.2. | Persor | nal protection equip | ment | | | | | | | | |
| 8.2.2.1. | Eye an | e and face protection: Safety c visor. | | | y glasses that stick to face (preventing splashing) (EN 166) or | | | | | | |
| 8.2.2.2. | Skin p | rotection | | | | | | | | | |
| | Hand | protection: | Protective glov Glove r Glove t | | | ves must be according to standard EN 374. material: nitrile rubber thickness: ≥0.11 mm through time: >480 min | | | | | |



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| Trading name: | | | HEMATOXYLIN G2 | | | | | | |
|---------------|----------------------------|---|---|----------------|--|----------|---|--|--|
| Product | Product code: HEMG2-OT-X** | | ç | Revision date: | 03 April 2023 | Version: | 8 | | |
| | Other | skin protection: | | | nade of natural fibers (noes that cover the en | | | | |
| 8.2.2.3. | Respii | atory protection: | Protective full face mask (EN 136) or half mask (EN 140) equipped v filter for organic vapors, type "A" (boiling point >65°C) acording to 14387) used when concentration levels exceed GVI. | | | | | | |
| 8.2.2.4. | Therm | al hazards: | No information available | | | | | | |
| 8.2.3. | Enviro | vironmental exposure controls | | | | | | | |
| | | Substance/mixture related measures to prevent exposure: | | See Section 6 | | | | | |
| | Struct | ural measures to p | revent | | | | | | |

| exposure: | Use modern equipment. |
|--|---|
| Organisational measures to prevent exposure: | Adapt the work process to the required working conditions of the workplace. |
| Technical measures to prevent exposure: | See Section 6 |

| 1. | Information on basic physical and cher | mical properties | |
|----|---|--|--------------------------|
| | | Value | Method |
| | Physical state: | liquid | No information available |
| | Color: | dark red | No information available |
| | Odour/odour threshold: | very mild vinegar odour/no information available | No information available |
| | Melting point / freezing point: | No information available | No information available |
| | Boiling point or initial boiling point and boiling range: | No information available | No information available |
| | Flammability: | No information available | No information available |
| | Lower and upper explosion limit: | No information available | No information available |
| | Flash point: | No information available | No information available |
| | Auto-ignition temperature: | No information available | No information available |
| | Decomposition temperature: | No information available | No information available |
| | pH: | No information available | No information available |
| | Kinematic viscosity: | No information available | No information available |
| | Solubility: | No information available | No information available |
| | Partition coefficient n-octanol/water (log value): | No information available | No information available |
| | Vapour pressure: | No information available | No information available |
| | Density and/or relative density | No information available | No information available |



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| Tradi | ng name: | HEMATOXYLIN G2 | | | | | | | |
|---------------------------|-----------|-----------------|------------------|--------------------------|------|----------------------|---|--|--|
| Product code: | | HEMG2-OT-X** | Revision date: | 03 April 2 | 2023 | Version: | 8 | | |
| | Relative | vapour density: | No information a | available No i | | nformation available | | | |
| Particle characteristics: | | haracteristics: | No information a | No information available | | | | | |
| 9.2. | Other inf | ormation | | | | | | | |
| | | | | | | | | | |

| SECTIO | SECTION 10 STABILITY AND REACTIVITY | | | | |
|--------|-------------------------------------|--|--|--|--|
| 10.1. | Reactivity: | See subsections 10.3 through 10.5. | | | |
| 10.2. | Chemical stability: | The product is chemically stable under standard ambient conditions of storing and using. | | | |
| 10.3. | Possibility of hazardous reactions: | With strong oxidants, sodium-hydroxide, sulfuric acid, aluminum. | | | |
| 10.4. | Conditions to avoid: | Sources of heat, sparks, and ignition. | | | |
| 10.5. | Incompatible materials: | Aluminum. | | | |
| 10.6. | Hazardous decomposition products: | No information available. | | | |

| SECTION 11 TOXIC | OLOGICAL INFORM | ATION | | | |
|-------------------------|-----------------------------|----------------------|---|------------------|----------------------------------|
| 11.1. Information | n on hazard classes as | ulation (EC) No 1272 | 2/2008 | | |
| Acute toxic | ity: | | | | |
| Route of exposure: | Method | Species | Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture} | Exposure time | Results |
| Oral exposure: | anhydrous (ECHA) | rabbit | LD ₅₀ | - | 7.712 mg/kg (ethylene glycol) |
| Dermal exposure: | anhydrous (ECHA) | rat | LD ₅₀ | - | >3.500mg/kg (ethylene glycol) |
| Inhalation exposure: | No information available | - | LC ₅₀ | - | - |
| Specific tar | get organ toxicity – si | ngle exposure | (STOT SE): | | |
| : . | Specif | ic effects | Target | organ | Note |
| Oral exposure: | No information | available | No information available | | - |
| Dermal exposure: | No information | available | No informatio | - | |
| Inhalation exposure: | No information | available | ble No information available | | - |
| | | | | | |
| Respiratory | irritation: | No info | rmation available | | |
| Irritation ar | nd corrosion | | | | |
| | Exposure time | Species | Evaluation | Method | Note |



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| Trading name: | | | | HF | ΜΔΤ | OXYLIN G2 | | i age . | 9 of 16 |
|---------------------------------|--------------|----------------------|--------------------------------|-----------------------------|--------|-------------------------------|---------|-----------------------------|-------------|
| Product code: | Ц | HEMG2-OT-X** | | Revision date: | | | 0023 | Version: | 8 |
| riouuci coue. | I | | I.C. | | ie. | 03 April 2 | .025 | version. | 0 |
| Skin irritation: | | - | rabb | it | - | - | | Slight irritatio glycol) | n (ethylene |
| Eye irritation: | | 24 h | rabb | it | - | - | | Slight irritatio glycol) | n (ethylene |
| Sensitiz | ation | | | | | | | | |
| Dermal exposure | | lo information | available | | | | | | |
| Inhalation | | | | | | | | | |
| exposure: | Ν | lo information | available | | | | | | |
| | | | | | | | | | |
| Sympto | ms re | lated to the ph | nysical, chemic | al and tox | icolog | jical characte | ristics | | |
| Oral exposure: | | No informati | | | | | | | |
| Dermal exposure: No information | | | | | | | | | |
| Inhalation expos | No informati | | | | | | | | |
| Eye exposure: | | Causes serio | us eye damage | 9 | | | | | |
| | | | | | • 、 | | | | |
| Repeate | ed dos | se toxicity (sub | | onic, chror | nic) | | | | |
| | | Dose | Exposure time | Species | | Method | E١ | valuation | Note |
| Subacute oral | No avai | information lable | No information available | No informat available | | No informatio available | n | o information /ailable | - |
| Subacute dermal | No avai | information lable | No information available | No informat available | | No informatio available | n | o information /ailable | - |
| Subacute inhalation | | information lable | No information available | No informat available | | No informatio available | n | o information /ailable | - |
| Subchronic oral | | information lable | No information available | No informat available | | No informatio available | n | o information /ailable | - |
| Subchronic dermal | | information lable | No information available | No informat available | | No informatio available | n | o information /ailable | - |
| Subchronic inhalation | | information lable | No information available | No informat available | | No informatio available | n | o information /ailable | - |
| Chronic oral No information | | | No information available | No informat available | | No informatio available | n | o information /ailable | - |



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| Trading name: | | | | | | ΛΔΤΛ | DXYLIN G2 | • | uge i | U OT 16 |
|----------------------------------|--|--------------------------|-----------------------------|---|------------------------------|-----------------------|--------------------------------|-------------------------|--------|----------|
| Product code: | ЦЕ | MG2-OT-X* | * | ₽∽ | | | 03 April 2023 | | sion: | 8 |
| | ΠE | | | Revision date: | | 05 April 2025 | ver | 51011. | U | |
| Chronic dermal | mal No information available No No No information available available available No No information available available available No | | information | No information | | - | | | | |
| Chronic inhalation | No availa | information Ible | No informat available | | No informati available | on | No information available | No informa available | ation | - |
| Spacific | taraat | organ tovicit | v ropost | tod o | vpocuro (S | |)=\. | | | |
| specific | target | organ toxicit | pecific eff | | xposure (s | | | n | | Note |
| Subacute oral | • | | | | | Nai | Target organ | | _ | NOLE |
| Subacute dermal | tion availation | | | | nformation availa | | - | | | |
| Subacute inhalati | | | | | nformation availa | | - | | | |
| Subchronic oral | | No informa | | | | nformation availa | | - | | |
| Subchronic derm | tion availa | | | | - | | | | | |
| | | | | | | information available | | - | | |
| Chronic oral No informatic | | | | | | | nformation availa | | _ | |
| Chronic dermal | | | | | | | nformation availa | | _ | |
| Chronic inhalation No informatic | | | | | | | nformation availa | | - | |
| | | : | | | | | | 1 | | |
| CMR eff | ects (ca | arcinogenicity | y, mutage | nicity | , reproduc | tive t | oxicity) | | | |
| Carcino | genicity | /: | Curre | ent s | tudies on t | est ar | nimals did not inc | dicate carcin | ogenio | effects. |
| Mutage | nicity <i>ii</i> | n-vitro: | Curre | Current <i>in vitro</i> tests did not indicate mutagenic effects. | | | | | | |
| Genoto | kicity: | | No ii | No information available | | | | | | |
| Mutage | nicity <i>ii</i> | n-vivo: | Curre | Current in vivo tests did not indicate mutagenic effects. | | | | | | |
| Germ ce | ell muta | agenicity: | No ii | No information available | | | | | | |
| Reprodu | uctive t | oxicity: | | No toxicity on reproductive organs was determined in reproductive organs. | | | | | | |
| Summar | ry of ev | aluation of tl | ne CMR p | rope | rties: - | | | | | |
| | | | | | | | | | | |
| 11.2. Informa | tion on | other hazard | ds: | | | | | | | |
| | | upting prope | | 1 | | | | | | |
| | nown es that | endocrine affect huma | disrupti n health. | ing | | | | | | |
| 11.2.2. Other in | format | ion: | | | | | | | | |
| _ | | | | | | | | | | |



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| Trading name: | | HEMAT | OXYLIN G2 | | |
|---------------|--------------|----------------|---------------|----------|---|
| Product code: | HEMG2-OT-X** | Revision date: | 03 April 2023 | Version: | 8 |

| 12.1. Toxicity | | | | | | |
|--------------------------------|------------------|------------------|--------------------------|--------------------------------|--|------|
| Acute (short-term) toxicity | Dose | Exposure time | Species | Method | Evaluation | Note |
| Fish | LC ₅₀ | 96 hours | Fish | No information available | 72.860 mg/l (ethylene glycol) | - |
| Crustacea: | EC ₅₀ | 48 hours | water flea | No information available | >100 mg/l (ethylene glycol) | - |
| Algae/aquatic plants | IC ₅₀ | 8 days | algae | No information available | 6.500-13.000 mg/l (ethylene glycol) | - |
| Microorganisms | LC ₅₀ | 72 hours | - | - | - | - |
| Chronic toxicity | Dose | Exposure time | Species | Method | Evaluation | Note |
| Fish | LC ₅₀ | 96 hours | No information available | No information available | No information available | - |
| Crustacea: | EC ₅₀ | 48 hours | No information available | No information available | No information available | - |
| Algae/aquatic plants | IC ₅₀ | 72 hours | No information available | No information available | No information available | _ |
| Other organisms | - | - | - | _ | - | - |

| | stence and degradability tic degradation | | | |
|--------------|---|--------------------------|--------------------------|------|
| 1 | Degradation half-lives | Method | Evaluation | Note |
| Marine water | No information available | No information available | No information available | - |
| Fresh water | No information available | No information available | No information available | - |
| Air | No information available | No information available | No information available | - |
| Soil | No information available | No information available | No information available | - |

| Biodegra | adation | | | |
|--------------------------|--------------------------|-----------------------------|--------------------------|-----------------------------|
| % Degradation | Time (days) | Method | Evaluation | Note |
| No information available | No information available | No information available | No information available | No information available |



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| Tradin | ng nam | ne: | | | | | | н | ЕМАТО | ХҮ | LIN G2 | | i age i | 2 01 10 |
|-------------------|---|----------------|----------|---------------------------|---------------------------------|------------|-------------------------------|--------------------|-----------------------------|-----------|------------------------|------------------|-----------------|---------|
| Produ | - | | HEM | G2-OT | -X** | | Revi | sion d | ate: | 03 | 3 April 202 | 23 | Version: | 8 |
| | | | 1 | | | | 1 | | | | | | | · |
| 12.3. | Bioa | ccumu | ulative | potentia | al | | | | | | | | | |
| | Parti | tion c | oefficie | ent: n-o | ctanol | /wate | r (log Ko | ow): | | | | | | |
| Valu | Value Concentratio | | ation | p⊦ | + | °C | Me | ethod | | Evalua | ation | | Note | |
| - | | No availa | | nation | - | - | - | No info availab | ormation le | ו | No inform available | nation | - | |
| | Bioc | oncen | tration | factor (| (BCF) | | | | | | | | | |
| | ValueSpeciesNo information availableNoinformation available | | | Method | | Evaluation | | Note | | | | | | |
| | | | forma | ation | ion No information available | | No information available | | No information available | | | | | |
| | Chrc | | otoxici | ity Do | se | • | osure | Spe | ecies | | Method | Fv | aluation | Note |
| Chroni | | | fish | LC ₅₀ | | No | nme No rmation information | | mation | Nc inf | | No information | | |
| Chroni crustac | | - |) | EC ₅₀ | | No | mation | No | mation | No inf | | No inf availa | ormation ole | - |
| 12.4. | Mob | oility in | ı soil | | | | | | | | | | | |
| | | | | ted distr | ibutic | on in e | environm | nental c | compart | mer | nts: | | | |
| | No i | nform | ation a | ivailable | | | | | | | | | | |
| | Surfa | ace ter | nsion: | | | | | | | | | | | |
| | \ | /alue | | °C | | C | oncentra | ition | | Μ | lethod | | Nc | ote |
| | | rmatio able | | o Iformati vailable | on | | informa ilable | tion | No inf availat | | nation | - | | |
| | | | | | | | | | | | | | | |



Γ

SAFETY DATA SHEET According to Regulation (EC) No. 1907/2006 amended by Regulation (EU) No. 2020/878

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1

| Trading name: | HEMATOXYLIN G2 | | | | | |
|---------------|----------------|----------------|---------------|----------|---|--|
| Product code: | HEMG2-OT-X** | Revision date: | 03 April 2023 | Version: | 8 | |

| T | A/D coefficient | les Kerri | F | Mathad | Nata |
|--------------------|---|--------------------------|--------------------------|--------------------------|------------|
| Transp | Henry's constant | log Kow | Evaporation rate | Method | Note |
| Soil-wa | ter No information available | No information available | No information available | No information available | - |
| Water- | air No information available | No information available | No information available | No information available | - |
| Soil-air | No information available | No information available | No information available | No information available | - |
| | | | | | |
| 12.5. | Results of PBT and vPvB ass | | | | |
| | Based on available data, the | product does not o | contain any PBT or v | PvB substances. | |
| | | | | | |
| 12.6. | Endocrine disrupting proper | | | | |
| | No known endocrine disrup | ting properties that | affect the environm | nent. | |
| | i contra cont | | | | |
| 12.7. | Other adverse effects | | | | |
| | No adverse effects are expe | cted. | | | |
| | | | | | |
| SECTIO | ON 13 DISPOSAL CONSIDER | TIONS | | | |
| 13.1. | Waste treatment methods | | | | |
| | | | | | |
| 13.1.1. | Product/Packaging dispos | al: | | | |
| | Submit for disposal to the | legal person autho | rized by the Ministr | y of Environmental | and Nature |
| | Protection. | | | | |
| 13.1.2. | Waste codes/waste design | ations according to | o Law: | | |
| | No information available | | | | |
| | | | | | |
| | | t information: | | | |
| 13.1.3. | Waste treatment – relevar | | | | |
| 13.1.3. | Waste treatment – relevan No information available | | | | |
| 13.1.3. | | | | | |
| 13.1.3. 13.1.4. | | t information: | | | |



Page 14 of 16 Trading name: **HEMATOXYLIN G2** Product code: HEMG2-OT-X** Revision date: 03 April 2023 Version: 8 13.1.5. Other disposal recommendations: Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur. 13.1.6. **Relevant Community provisions:** _ **SECTION 14 TRANSPORT INFORMATION** Transporting/shipment by road (ADR) UN number: Not subject to transport regulations. UN proper shipping name: _ Transport hazard class(es): _ Packing group: _ Environmentally hazardous: _ Special precautions for user: _ Transporting/shipment by rail (RID) UN number: Not subject to transport regulations. UN proper shipping name: _ Transport hazard class(es): _ Packing group: _ Environmentally hazardous: _ Special precautions for user: _ Inland waterway transport (ADN) UN number: Not subject to transport regulations. UN proper shipping name: _ Transport hazard class(es): _ Packing group: _ Environmentally hazardous: _ Special precautions for user: _ Transporting/shipment by sea (IMDG) UN number: Not subject to transport regulations. UN proper shipping name: _ Transport hazard class(es): _ Packing group: _ Environmentally hazardous: _



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| Trading name: | HEMATOXYLIN G2 | | | | | |
|---------------|----------------|----------------|---------------|----------|---|--|
| Product code: | HEMG2-OT-X** | Revision date: | 03 April 2023 | Version: | 8 | |

| Special precautions for user: | - |
|-------------------------------|--|
| Transporting/shipment by | air (ICAO-TI/IATA-DGR) |
| UN number: | Not subject to transport regulations. |
| UN proper shipping name: | - |
| Transport hazard class(es): | - |
| Packing group: | - |
| Environmentally hazardous: | - |
| Special precautions for user: | - |
| | |
| Further information: The proc | luct is not subject to classification. |

| 15.1. | Safety, health and enviror | nmental regulations/legislation specific for the substance or mixture |
|-------|-------------------------------------|--|
| | EU regulations | |
| | Authorization and/or rest | rictions of use |
| | Authorizations: | - |
| | Restrictions: | - |
| | Other EU regulations: | Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certair dangerous substances, mixtures and articles (Annex XVII); |
| | Information according 19 guideline) | 99/13/EC about limitation of emissions of volatile organic compounds (VOC- |
| | National legislation: | Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act |



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| Trading name: | HEMATOXYLIN G2 | | | | | |
|---------------|----------------|----------------|---------------|----------|---|--|
| Product code: | HEMG2-OT-X** | Revision date: | 03 April 2023 | Version: | 8 | |

| 15.2. | Chemical safety assessment |
|-------|----------------------------|
| | None |

| SECTIO | SECTION 16 Other information | | | | |
|-----------|--|--|--|--|--|
| 16.1. | Indication of changes: | - | | | |
| 16.2. | Abbreviations and acronyms: | ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative | | | |
| 16.3. | Key literature references and source of data: | - | | | |
| 16.4. | Classification and procedure u 1272/2008 (CLP) | sed to derive the classification for mixture according to Regulation (EC) | | | |
| Classifie | cation | Classification procedure | | | |
| - | | - | | | |
| 16.5. | Relevant H statements (numb | er and full text) | | | |
| | H: 302 | Harmful if swallowed. | | | |
| 16.6. | Training advice: | - | | | |
| 16.7. | Further information: | ** "X" in the product code marks different volumes (different packagings of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet. | | | |

ANNEX:

_

EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT



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| Trading name: | BLUING REAGENT | | | | | |
|---------------|----------------|----------------------|-----------------|------------|--|--|
| Product code: | BR-OT-X** | Date of compilation: | 23 January 2023 | Version: 7 | | |

| SECTI | ON 1: Identification of | the substanc | e/mixture a | and of the company/undertaking | | | |
|-------|-------------------------|--|--|--|--|--|--|
| 1.1. | Product identifier | | | | | | |
| | Trading name: | BLUING RE | BLUING REAGENT | | | | |
| | Chemical name: | - | - | | | | |
| | Catalogue number: | BR-OT-X** | | | | | |
| 1.2. | Relevant identified use | es of the subs | tance or mi | xture and uses advised against | | | |
| | Uses: | | For conve | rsion of red hematoxylin stained nuclei to blue. | | | |
| | Uses advised against: | | Only the i | dentified uses are advised. | | | |
| | Reason why uses advis | sed against: | uct is intended for use only as an <i>in vitro</i> diagnostic medical gistered at the Agency for Medicinal Products and Medical nd there is no reason to use it for other purposes | | | | |
| 1.3. | Details of the supplier | Details of the supplier of the safety data sheet | | | | | |
| | Supplier: B | | BioGnost Ltd. | | | | |
| | Address: N | | Medjugorska 59, Zagreb | | | | |
| | Telephone number: + | | +385 1 2409997 | | | | |
| | Fax no.: + | | +385 1 2404039 | | | | |
| | e-mail of competent p | erson: <u>n</u> | <u>msds@biognost.hr</u> | | | | |
| | National contact: | - | | | | | |
| 1.4. | Emergency telephone | number | | | | | |
| | National Protection ar | nd Rescue Dir | ectorate: | 112 | | | |
| | Medical information: | | | +385 1 2348 342 | | | |
| | Other information: | | | - | | | |

| SECTIO | SECTION 2. Hazards identification | | | | |
|----------|--|-----------------|---------------------|--|--|
| 2.1. | Classification of the substance or mixture | | | | |
| 2.1.1. | Classification according to Regula | tion (EC) No 1 | 272/2008 (CLP) | | |
| | Hazard class and category | code: | Hazard statements*: | | |
| | Not identified as hazardous subst | ance. | - | | |
| 2.1.2. | Additional information | | | | |
| | - | | | | |
| *For ful | l text of Hazard- and EU Hazard-sta | itements: see S | Section 16 | | |
| 2.2. | Label elements | | | | |
| | Product identification: | BLUING REA | GENT | | |
| | Identification number: - | | | | |
| | Authorization no.: | - | | | |
| | Hazard pictograms: | - | | | |



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| Trading name: | | BLUING | REAGENT | |
|---------------------------|-----|----------------------|-----------------|------------|
| Product code: BR-OT-X** | | Date of compilation: | 23 January 2023 | Version: 7 |
| ***** | | | | |
| Signal wo | rd: | - | | |
| Hazard statements: | | - | | |
| Precautionary statements: | | - | | |

| | Supplemetal hazard information (EU): |
|------|---|
| 2.3. | Other hazards |
| | Endocrine Disrupting Properties: |
| | No known endocrine disrupting properties. |

| SECTION 3. Co | ECTION 3. Composition/information on ingredients | | | | | | |
|--------------------------|--|--------------------------------|-------------------------------------|--|--|--|--|
| CAS/ EC/ Index no. | REACH Registration No | Weight % content (or range) | Identification name | Classification according to Regulation (EC) No 1272/2008 (CLP) | | | |
| - | - | - | Contains no hazardous substances | - | | | |

| SECTI | ON 4. First aid measures | | | |
|-------|---|--|--|--|
| 4.1. | Description of first aid measures | | | |
| | General notes: | | - | |
| | Following inhalation: | | Carry the afflicted person out of the contaminated area into a well- ventilated area or out for fresh air. If breathing becomes erratic or it stops, immediately apply artificial respiration (other than mouth-to- mouth) and contact a physician. | |
| | Following skin contact: Following eye contact: | | Remove contaminated clothing. Immediately wash with plenty of water and soap. Seek medical assistance if the symptoms of irritation remain. | |
| | | | Rinse out with plenty of water with the eyelid held wide open using clean fingers. If the symptoms remain, immediately call a physician. | |
| | Following ingestion: | | Do not induce vomiting. Make the afflicted person drink a glass of water. If spontaneous vomiting occurs, wash the mouth with water, then make the person drink 100-200 ml of water and seek medical attention. | |
| | Self-protection of the first aider: | | Treat symptomatically. | |
| 4.2. | Most important symptoms a | nd eff | ects, both acute and delayed | |
| | Following inhalation: | No i | nformation available | |
| | Following skin contact: | No i | information available | |
| | Following eye contact: | No i | nformation available | |
| | Following ingestion: No i | | information available | |
| 4.3. | Indication of any immediate | liate medical attention and special treatment needed | | |



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| Trading name: | BLUING REAGENT | | | | | |
|---------------|----------------|----------------------|-----------------|------------|--|--|
| Product code: | BR-OT-X** | Date of compilation: | 23 January 2023 | Version: 7 | | |
| | | | | | | |

-

| SECTIO | SECTION 5. Firefighting measures | | | |
|--------|---|--|--|--|
| 5.1. | Extinguishing media | | | |
| | Suitable extinguishing media: Small fire - water spray, dry powder, CO ₂ Large fire - water spray or alcohol-resistant foam | | | |
| | Unsuitable extinguishing media: water jet | | | |
| 5.2. | Special hazards arising from the substance or mixture | | | |
| | Hazardous combustion products: No information available | | | |
| 5.3. | Advice for firefighters | | | |
| | Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing. Cool closed containers exposed to fire with water spray or vapor. | | | |
| 5.4. | Additional information | | | |
| | Remove sources of heat and ignition. Do not contaminate the environment with extinguishing media. | | | |

| SECTIO | ON 6. Accidental release meas | ures | | | |
|--------|---|--|--|--|--|
| 6.1. | Personal precautions, protective equipment and emergency procedures | | | | |
| 6.1.1. | For non-emergency personne | 1 | | | |
| | Protective equipment: | Use personal protective equipment (see Section 8). | | | |
| | Accident prevention methods | Evacuate members of all non-essential personnel and those members without protective equipment. Remove all sources of sparks and ignition. Do not smoke. | | | |
| | Emergency procedures: | Mark the area using proper signs. | | | |
| 6.1.2. | For emergency responders: | | | | |
| | Wear protective equipment (s | ee Section 8). | | | |
| 6.2. | Environmental precautions: | | | | |
| | Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact Natio Protection and Rescue Directorate (NPRD) on 112. | | | | |
| 6.3. | Methods and material for containment and cleaning up | | | | |
| 6.3.1. | Bunding, covering of drains; capping procedures: | Sand or clay barriers. | | | |



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| | | | | | Tage 4 01 10 | | | |
|-------------------------|------------|---------------------|---|---|---|--|--|--|
| Trading name: | | | BLUING REAGENT | | | | | |
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| 6.3.2. | Cleaning | up: | Where possible, the substant material (sand, diatomaceo in tightly closed impermeal ventilated storage rooms un persons authorized by the I Protection. After disposal of materials with water. | us earth, vermiculite). Pla ble containers. Store the ntil disposal. Submit for Ministry of Environmenta | ace the waste material substance in well disposal to the legal al and Nature | | | |
| 6.3.3. | Other info | ormation: | - | | | | | |
| 6.4. | Reference | e to other sections | ; | | | | | |
| | | | on about secure handling. on about personal protective ec | quipment. | | | | |

See Section 13 for information about containment.

| 7.1. | Precautions for safe handling | | | | | |
|--------|--|--|--|--|--|--|
| 7.1.1. | Protection measures | | | | | |
| | Measures to prevent fire: | Keep away from sources of heat and ignition. Do not smoke. | | | | |
| | Measures to prevent aerosol and dust generation | ion: Secure proper ventilation. | | | | |
| | Measures to protect the environment: | Prevent spilling into the sewage system and waterways. | | | | |
| | Other measures: | - | | | | |
| 7.1.2. | | | | | | |
| | Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and befo | | | | | |
| 7.2. | Conditions for safe storage, including any incompatibilities | | | | | |
| | Technical measures and storage conditions: | Keep in tightly closed and upright set containers in a well ventilated storage rooms, and away from sources of heat, sunlight, and other incompatible substances. | | | | |
| | Packaging materials: | Manufacturer's original packaging. | | | | |
| | Requirements for storage rooms and vessels: | Keep away from food and drink. Keep the containers tightly closed. | | | | |
| | Advices for storage equipment: | The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation. | | | | |
| | Further information on storage conditions: | Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 9). | | | | |



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| | | | | | | | |

| Rec | commendations: | - |
|-----|-------------------------------------|---|
| Ind | dustrial sector specific solutions: | - |

| SECTION 8. Exposu | e contr | ols/personal | protec | tion | | | |
|------------------------------------|-----------|------------------|---------------|--------------------------|--|-------------------------------|--------------------------|
| 8.1. Control para | ameters | | | | | | |
| Substance | | CAS N | 0 | | • | exposure limit term values | Biological limit values |
| | | | | ł | ppm | mg/m ³ | |
| - | | - | | | - | - | No information available |
| | | | | | | | |
| Substance - name: | | | | | | | |
| EC No: - | | CAS No: | - | | | | |
| DNEL | | • | 1 | | | • | |
| | | | | Inc | dustrial | | |
| Route of exposure: | ļ | Acute | | Acute | e | Chron | nic Chronic |
| Route of exposure. | effe | ect local | effe | ect sys | temic | effect lo | ocal effect system |
| Oral | - | | - | | | - | - |
| Inhalation | - | | - | | | - | - |
| Dermal | - | | | | - | - | |
| Critical physical para | meters: s | solubility, flar | nmabilit | ty, cor | rosivity: | - | |
| | 1 | | | Со | nsumer | 1 | |
| Route of exposure: | Acute | | Acute | | Chron | | |
| | ette | ect local | cal effect sy | | temic | effect lo | ocal effect system |
| Oral | - | | - | | - | - | |
| Inhalation | - | | - | | | - | |
| Dermal | - | | - | | | - | - |
| PNEC | | | | | DNIEG | | |
| Environmental protec | tion tar | get | | | PNEC | | |
| Fresh water Freshwater sediment | <u> </u> | | | | No information available | | |
| | | | | No information available | | | |
| Marine water | | | | | No information available No information available | | |
| Marine sediments Food chain | | | | | mation availabl | | |
| Microorganisms in se | wade tr | eatment | | | | | |
| Soil (agricultural) | .waye li | catinent | | | No information available No information available | | |
| | | | | | | | |



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| Product code: | BR-OT-X** | Date of compilation: | 23 January 2023 | Version: 7 | | |

| Air | | | No information available | | |
|----------|--|--|--|--|--|
| | ÷ | | | | |
| 8.2. | Exposure controls | | | | |
| 8.2.1. | Appropriate engineering | controls | S | | |
| | Substance/mixture relate measures to prevent exp during identified uses: | | Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace. | | |
| | Structural measures to pr exposure: | revent | No information available | | |
| | Organisational measures prevent exposure: | to | Organization of work in order to reduce other worker's influence during work process. | | |
| | Technical measures to pr exposure: | event | Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. | | |
| 8.2.2. | Personal protection equi | oment | | | |
| 8.2.2.1. | Eye and face protection: | n: Safety glasses that stick to face (preventing splashing) (EN visor. | | | |
| 8.2.2.2. | Skin protection | | | | |
| | | | ective gloves must be according to the EU Directive 2016/425/EEC and lard EN 374. Glove material: nitrile rubber | | |
| | | | Glove thickness: ≥0.50 mm Break through time: >480 min | | |
| | Other skin protection: | | es (EN 13034), and shoes that cover the entire foot (EN 10335). | | |
| 8.2.2.3. | Respiratory protection: | filter f | ective full face mask (EN 136) or half mask (EN 140) equipped with a for organic vapors, type "A" (boiling point >65°C) acording to EN 7) used when concentration levels exceed GVI. | | |
| 8.2.2.4. | Thermal hazards: | No inf | formation available | | |
| 8.2.3. | Environmental exposure | controls | 5 | | |
| | Substance/mixture relate measures to prevent exp | | See Section 6 | | |
| | Structural measures to pr exposure: | revent | Use modern equipment. | | |
| | Organisational measures prevent exposure: | to | Adapt the work process to the required working conditions of the workplace. | | |
| | Technical measures to pr exposure: | event | See Section 6 | | |



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| Product code: | BR-OT-X** | Date of compilation: | 23 January 2023 | Version: | 7 | | |

| | Value | Method | |
|---|---|--------------------------|--|
| Physical state: | liquid | No information available | |
| Color: | ight blue | No information available | |
| Odour/odour threshold: | no information available/no information available | No information available | |
| Melting point / freezing point: | No information available | No information available | |
| Boiling point or initial boiling point and boiling range: | No information available | No information available | |
| Flammability: | No information available | No information available | |
| Lower and upper explosion limit: | No information available | No information available | |
| Flash point: | No information available | No information available | |
| Auto-ignition temperature: | No information available | No information available | |
| Decomposition temperature: | No information available | No information available | |
| pH: | >8.0 | No information available | |
| Kinematic viscosity: | No information available | No information available | |
| Solubility: | No information available | No information available | |
| Partition coefficient n-octanol/water (log value): | No information available | No information available | |
| Vapour pressure: | No information available | No information available | |
| Density and/or relative density | No information available | No information available | |
| Relative vapour density: | No information available | No information available | |
| Particle characteristics: | No information available | No information available | |

| SECTIO | SECTION 10.: Stability and reactivity | | | |
|--------|---------------------------------------|--|--|--|
| 10.1. | Reactivity: | See subsections 10.3 through 10.5. | | |
| 10.2. | Chemical stability: | The product is chemically stable under standard ambient conditions of storing and using. | | |
| 10.3. | Possibility of hazardous reactions: | No information available. | | |
| 10.4. | Conditions to avoid: | No information available. | | |
| 10.5. | Incompatible materials: | No information available. | | |
| 10.6. | Hazardous decomposition products: | No information available. | | |

SECTION 11. Toxicological information



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| Trading name: | BLUING REAGENT | | | | | | |
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| Product code: | BR-OT-X** | Date of compilation: | 23 January 2023 | Version: 7 | | | |

| 11.1. Informatio | n on hazard classes as | defined in Regul | ation (EC) No 127 | 2/2008 | | |
|-------------------------|---|---------------------|---|------------|-------------|--|
| Acute toxic | city: | | | | | |
| Route of exposure: | Method | | Effective Dose LD ₅₀ /LC ₅₀ or ATE _{mixture} | Exposure t | ime Results | |
| Oral exposure: | No information available | - | LD ₅₀ | - | - | |
| Dermal exposure: | No information - LD ₅₀ - | | - | | | |
| Inhalation exposure: | No information available | - | - LC ₅₀ - | | - | |
| Specific ta | rget organ toxicity – s | ingle exposure (S | TOT SE): | | | |
| | | ic effects | Target | organ | Note | |
| Oral exposure: | No information | | No informatio | | - | |
| Dermal exposure: | No information | | No informatio | | - | |
| Inhalation exposure | No information | available | No information available | | - | |
| - | I | | Ĩ | | 1 | |
| Aspiration | hazard: | No inforn | nation available | | | |
| : | | i i | | | | |
| Irritation a | nd corrosion: | | | | | |
| : | Exposure time | Species | Evaluation | Method | Note | |
| Skin irritation: | - | - | - | | | |
| Eye irritation: | - | - | - | | | |
| | | | · · · · · | | | |
| Sensitizatio | on | | | | | |
| Dermal exposure: | No information avai | lable | | | | |
| Inhalation exposure: | No information avai | lable | | | | |
| Symptoms | related to the physica | al, chemical and to | oxicological chara | cteristics | | |
| Oral exposure: | Swallowing may cause irritation of mucosa, tingling sensation in the mouth, burning sensation; higher levels of concentration may cause nausea, abdominal pain and vomiting. In case of vomiting, aspiration causes coughing, difficult breathing. Higher levels of concentration may cause suffocation. | | | | | |
| Dermal exposure: | Slight irritation After short exposure resonation effects are not likely Long-term exposure | | | | | |



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| Trading name: | | BLUING REAGENT | | | | | | | |
|--|----------------|--------------------------------|--------------------------------|--------------------------------|------------------------------|------------------------------|---------------|-----|--|
| Product code: BR-OT-X** | | | Date o | f compilatio | n: 23 Janu | ary 2023 | Version: | 7 | |
| Inhalation expos | lire. | | large amount eezing, heada | • | | ventilated perim | neter may cau | use | |
| Eye exposure: | | Direct eye co sensation. | ntact may cau | se slight to m | noderate irrita | tion, lacrimation | and burning | | |
| Repeate | ed dose | toxicity (sub | acute, subchro | onic, chronic) | | | | | |
| · · | | Dose | Exposure time | Species | Method | Evaluatio | n Note | | |
| Subacute oral | No i availa | information Ible | No information available | No information available | No informati available | No informati available | on - | | |
| Subacute dermal | No i availa | information ble | No information available | No information available | No informati available | No informati available | | | |
| Subacute inhalation | No i availa | information Ible | No information available | No information available | No informati available | No informati available | on - | | |
| Subchronic oral | No i availa | information Ible | No information available | No information available | No informati available | No informati available | on - | | |
| Subchronic dermal | No i availa | information Ible | No information available | No information available | No informati available | No informati available | on - | | |
| Subchronic inhalation | No i availa | information Ible | No information available | No information available | No informati available | | - | | |
| Chronic oral | No i availa | information Ible | No information available | No information available | No informati available | | | | |
| Chronic dermal | No i availa | information ble | No information available | No information available | No informati available | No informati available | | | |
| Chronic No information inhalation available | | No information available | No information available | No informati available | No informati available | | | | |
| Specific | target | organ toxicit | y – repeated e | exposure (STC |)T RE): | | | | |
| | | | pecific effects | | | t organ | Not | te | |
| Subacute oral | | No informa | tion available | Ν | lo information | n available | - | | |
| Subacute dermal | | No informa | tion available | Ν | lo informatior | n available | - | | |
| Subacute inhalat | ion | No informa | tion available | N | lo informatior | n available | - | | |



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| Trading name: | | BLUI | NG | REAGENT | | | |
|---------------------------------|---|--|---|---------------------|------------|--|--|
| Product code: | BR-OT-X** | Date of compilation | Date of compilation: 23 January 2 | | Version: 7 | | |
| Subchronic oral | No information | tion available | No ir | formation available | - | | |
| Subchronic derma | al No informat | tion available | No ir | formation available | - | | |
| Subchronic inhala | tion No informat | tion available | No ir | formation available | - | | |
| Chronic oral | No informat | tion available | No ir | formation available | - | | |
| Chronic dermal | No informat | tion available | No ir | formation available | - | | |
| Chronic inhalatior | n No informat | tion available | No ir | formation available | - | | |
| Genotoxi Mutagen Germ cel | icity <i>in-vitro:</i> | Current <i>in vitro</i> test No information availa Current <i>in vivo</i> tests No information availa | Current studies on test animals did not indicate carcinogenic effects. Current in vitro tests did not indicate mutagenic effects. No information available Current in vivo tests did not indicate mutagenic effects. No information available No information available No toxicity on reproductive organs was determined in reproductive organs | | | | |
| 11.2. Informat | y of evaluation of th ion on other hazard e disrupting proper | ls: | | | | | |
| No know | n endocrine disrup | ting properties that affect | hum | an health. | | | |
| 11.2.2. Other inf | ormation: | | | | | | |
| - | | | | | | | |

| SECTION 12. Ecologi | SECTION 12. Ecological information | | | | | | | | | | |
|---------------------------------|------------------------------------|------------------|-----------------------------|-----------------------------|------------|------|--|--|--|--|--|
| 12.1. Toxicity | | | | | | | | | | | |
| Acute toxicity | Dose | Exposure time | Species | Method | Evaluation | Note | | | | | |
| Fish | LC ₅₀ | 96 hours | No information available | No information available | - | - | | | | | |
| Crustacea: | EC ₅₀ | 48 hours | No information available | No information available | - | - | | | | | |
| Algae/aquatic plants | IC ₅₀ | 8 days | No information available | No information available | - | - | | | | | |
| Microorganisms | LC ₅₀ | 72 hours | - | - | - | - | | | | | |
| Chronic (long-term) toxicity | Dose | Exposure time | Species | Method | Evaluation | Note | | | | | |



Value

Species

SAFETY DATA SHEET According to Regulation (EC) No. 1907/2006 amended by Regulation (EU) No. 2020/878

| BR-OT-X** LC ₅₀ ants IC ₅₀ - ance and degradal degradation | 96 hour 48 hour 72 hour - | rs Na av rs Na av | f compilation: o information railable o information railable o information railable | No i avai No i | 3 January 20 information lable information lable | No information available No information available | /ersion - - | : 7 |
|---|---|---|--|---|---|--|---|--|
| EC ₅₀ ants IC ₅₀ - | 48 hour 72 hour | rs av rs Ni av | vailable o information vailable o information | avai No i | lable information | information available No information | - | |
| ants IC ₅₀ - | 72 hour | rs av | ailable o information | - | | information | - | |
| - nce and degrada | | rc i | | | | avanable | | |
| nce and degrada | - | | andbic | | information lable | No information available | - | |
| | | - | | - | | - | - | |
| legradation | bility | | | | | | | |
| Degradation ha | lf-lives | | Method | | E٧ | aluation | | Note |
| No information available | | | No information available | | | No information available | | |
| lo information av | ailable | No information available No | | | No informa | tion available | | - |
| lo information av | vailable | No information available No info | | | No informa | tion available | | - |
| lo information av | ailable | No information available No infor | | | No informa | tion available | | - |
| adation | | | | | | | | |
| Time (day | s) | | Method | | Evaluation | | Note | 9 |
| No infor available | | | | No information available | | | No information available | |
| | | | | | | | | |
| mulative potentia | al | | | | | | | |
| • | | : (log Kc | ow) | | | | | |
| • | рН | °C | , Method | | Evaluat | on | No | te |
| | - | - | No informatio available | on | No informa available | tion _ | | |
| | No information av No information av No information av adation Time (day No infor available mulative potentia -water partition o | No information available No information available No information available adation Time (days) No information available mulative potential -water partition coefficient Concentration pH | No information available No information No information available No information available No information available No information No information Available No information No information Available N | No information available No information available No information available No information available No information available No information available adation Image: State of the state of th | No information available No information available No information available No information available No information available No information available adation Image: State of the state of th | No information available No information No information No information available No information available | No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available Adation Time (days) Method Evaluation No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available available No information available No information available mulative potential Voinformation Voinformation -water partition coefficient (log Kow) Evaluation Voinformation No information No information No information | No information available No information |

Method

Evaluation

Note



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| Trading name: BLUING REAGENT | | | | | | | | | | | | | |
|------------------------------|---------|---|----------------------------------|------------------------------|---------------------------------|-------------------|------------------------|-----------------------------|--------------------------|-----------------------|-----------------------------|----------------|------|
| Produ | ct coo | de: | BR-O | T-X** | Date of compilation: | | 23 Jan | 23 January 2023 | | Ver | sion: 7 | | |
| | | No availal | | ormation No info availabl | | rmation le | | No information available | | | No information available | | |
| | Chr | onic ec | otoxicit | W | | | | | 1 | | | | |
| | : | llue | | Dose | | osure ime | Spe | ecies | Met | hod | Eva | aluation | Note |
| Chroni | c toxic | city on | fish | LC ₅₀ | No infor availa | mation able | No infori availa | mation able | No informa availab | ation | No inforr availa | nation Ible | - |
| Chroni crustac | | - |) | EC ₅₀ | No infor availa | mation able | No infori availa | mation able | No informa availab | ation | No inforr availa | nation Ible | - |
| 12.4. | Kno | | oredicte | ed distributi /ailable | on in e | environme | ental d | compart | ments: | | | | |
| | Surf | face ter | nsion: | | | | | | | | | | |
| | | Value | | °C | Concentration | | | Metho | d | | Ν | lote | |
| | | ormatio ilable | | o ormation ailable | | | | o information vailable | | - | | | |
| | | - | | - | | | | | | | | | |
| Transp | 1 | A | n / desc /D coef enry's co | - | lc | og Kow | E١ | vaporati | on rate | Met | hod | | Note |
| Soil-wa | ater | No information No information No inform | | | nation No informat available | | | on _ | | | | | |
| Water- | -air | No availa | | nformation | No ir availa | nformatio able | | o inform ailable | nation | No infor available | | on _ | |
| Soil-air | r | No availa | | nformation | No ir availa | nformatio able | | o inform ailable | nation | No infor available | | on _ | |
| | | | | | | | | | | | | | |
| 12.5. | | | | d vPvB asses | sment | | | | | | | | |
| | No | inform | ation av | /ailable | | | | | | | | | |



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| Trading name: | BLUING REAGENT | | | | | | | |
|---------------|----------------|----------------------|-----------------|------------|--|--|--|--|
| Product code: | BR-OT-X** | Date of compilation: | 23 January 2023 | Version: 7 | | | | |

| 12.6. | Endocrine disrupting properti | es | | | | | |
|--|---|--|--|--|--|--|--|
| | No known endocrine disrupting properties that affect the environment. | | | | | | |
| | | | | | | | |
| 12.7. | Other adverse effects | | | | | | |
| | No adverse effects are expect | ted. | | | | | |
| | | | | | | | |
| | N 13. Disposal consideration | S | | | | | |
| 13.1. | Waste treatment methods | | | | | | |
| 13.1.1. | Product/Packaging disposal | | | | | | |
| 13.1.1. Product/Packaging disposal: Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection. | | | | | | | |
| | | | | | | | |
| 13.1.2. | Waste codes/waste designa | tions according to Law: | | | | | |
| | No information available | | | | | | |
| | | | | | | | |
| 13.1.3. | Waste treatment – relevant information: | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 13.1.4. | Sewage disposal – relevant | | | | | | |
| | Waste must not be disposed | d of into the sewage system. | | | | | |
| | | | | | | | |
| 13.1.5. | Other disposal recommenda | | | | | | |
| | Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit | | | | | | |
| | | fors authorized by the ministry in charge. Do not dispose of in places where | | | | | |
| | ignition may occur. | | | | | | |
| 13.1.6. | Relevant Community provis | ions: | | | | | |
| | - | | | | | | |
| | | | | | | | |
| SECTIO | N 14. Transport information | | | | | | |
| | Transporting/shipment by roa | | | | | | |
| UN num | | Not subject to transport regulations. | | | | | |
| | per shipping name: | - | | | | | |
| Transport hazard class(es): - | | | | | | | |



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| Trading name: | BLUING REAGENT | | | | | | | | |
|-----------------------------|--------------------|---|--|--|--|--|--|--|--|
| Product code: | BR-OT-X** | Date of compilation: 23 January 2023 Version: 7 | | | | | | | |
| | | | | | | | | | |
| Packing group: | | - | | | | | | | |
| Environmentally ha | zardous: | - | | | | | | | |
| Special precautions | s for user: | - | | | | | | | |
| Transporti | ng/shipment by rai | il (RID) | | | | | | | |
| UN number: | | Not subject to transport regulations. | | | | | | | |
| UN proper shipping | g name: | - | | | | | | | |
| Transport hazard cl | lass(es): | - | | | | | | | |
| Packing group: | | - | | | | | | | |
| Environmentally ha | zardous: | - | | | | | | | |
| Special precautions | s for user: | - | | | | | | | |
| Inland wat | erway transport (A | DN) | | | | | | | |
| UN number: | | Not subject to transport regulations. | | | | | | | |
| UN proper shipping | g name: | - | | | | | | | |
| Transport hazard cl | lass(es): | - | | | | | | | |
| Packing group: | | - | | | | | | | |
| Environmentally ha | zardous: | - | | | | | | | |
| Special precautions | s for user: | - | | | | | | | |
| Transporti | ng/shipment by se | a (IMDG) | | | | | | | |
| UN number: | | Not subject to transport regulations. | | | | | | | |
| UN proper shipping | g name: | - | | | | | | | |
| Transport hazard cl | lass(es): | - | | | | | | | |
| Packing group: | | - | | | | | | | |
| Environmentally ha | zardous: | - | | | | | | | |
| Special precautions | s for user: | - | | | | | | | |
| Transporti | ng/shipment by air | (ICAO-TI/IATA-DGR) | | | | | | | |
| UN number: | | Not subject to transport regulations. | | | | | | | |
| UN proper shipping | g name: | - | | | | | | | |
| Transport hazard class(es): | | - | | | | | | | |
| Packing group: | | - | | | | | | | |
| Environmentally ha | zardous: | - | | | | | | | |
| Special precautions | | - | | | | | | | |
| · · · | | | | | | | | | |
| Further informatior | n: The produc | ct is not subject to classification. | | | | | | | |



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| Trading name: | BLUING REAGENT | | | | | | |
|---------------|----------------|----------------------|-----------------|------------|--|--|--|
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| | EU regulations | | | | | |
|-------|--|--|--|--|--|--|
| | Authorization and/or res | trictions of use | | | | |
| | Authorizations: | - | | | | |
| | Restrictions: | - | | | | |
| | Other EU regulations: | Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/9, and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2000 on the limitation of emissions of volatile organic compounds due to the use of organi solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 98/24/EC of 7 April 1998 on the protection of the health and safet of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 11 December 2008 on classification, labelling and packaging of substances and mixtures amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII); | | | | |
| | Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC- guideline) | | | | | |
| | National legislation: | Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act | | | | |
| 15.2. | Chemical safety assessme | | | | | |
| | None | | | | | |

| SECTIO | SECTION 16. Other information | | | | | | | |
|--------|---|------------------|--|--|--|--|--|--|
| 16.1. | Indication of changes: | - | | | | | | |
| | | PBT | Stable, bioaccumulative and toxic | | | | | |
| | | vPvB | Strongly stable and strongly bioaccumulative. | | | | | |
| 16.2. | 16.2. Abbreviations and acronyms: | LD ₅₀ | Lethal dose, 50% | | | | | |
| | | LC ₅₀ | Lethal concentration, 50% | | | | | |
| | | STOT-SE | Specific target organ toxicity - single exposure | | | | | |
| 16.3. | Key literature references and source of data: | - | | | | | | |



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| Trading name: | BLUING REAGENT | | | | |
|---------------|----------------|----------------------|-----------------|------------|--|
| Product code: | BR-OT-X** | Date of compilation: | 23 January 2023 | Version: 7 | |

| 16.4. | Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP) | | | |
|----------|---|---|--|--|
| Classifi | cation | Classification procedure | | |
| - | | - | | |
| 16.5. | Relevant H statements (num | ber and full text) | | |
| | H: - | - | | |
| 16.6. | Training advice: | - | | |
| | | ** "X" in the product code marks different volumes (different packagings of the product) | | |
| 16.7. | Further information: | We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet. | | |

ANNEX: Exposure scenario resulting to Chemical safety assessment



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| Trading name: | EOSIN Y 2% ALCOHOLIC | | | | |
|---------------|----------------------|----------------------|------------------|----------|---|
| Product code: | EOYA-20-OT-X** | Date of compilation: | 14 November 2022 | Version: | 2 |

| SECTI | ON 1: Identification of t | he substance | e/mixture | and of the company/undertaking | |
|-------|---------------------------|--|--|----------------------------------|--|
| 1.1 | Product identifier | | | | |
| | Trading name: | EOSIN Y 2% | | DLIC | |
| | Chemical name: | - | | | |
| | Catalogue number: | EOYA-20-O | T-X** | | |
| 1.2 | Relevant identified use | es of the subst | tance or n | nixture and uses advised against | |
| | Uses: | | Reagent | for cytoplasm counterstaining. | |
| | Uses advised against: | | Only the | e identified uses are advised. | |
| | Reason why uses advis | ed against: | ed against: The product is intended for use only as an <i>in vitro</i> device, registered at the Agency for Medicinal Pro Devices and there is no reason to use it for other pro- | | |
| 1.3 | Details of the supplier | Details of the supplier of the safety data sheet | | | |
| | Supplier: | | BioGnost Ltd. | | |
| | Address: | | | orska 59, Zagreb | |
| | Telephone number: | | +385 1 2409997 | | |
| | Telefax.: | | +385 1 2404039 | | |
| | e-mail of competent p | erson: | <u>msds@t</u> | <u>piognost.hr</u> | |
| | National contact: | | - | | |
| 1.4 | Emergency telephone | number | | | |
| | National Protection an | d Rescue Dire | ectorate: | 112 | |
| | Medical information: | | | +385 1 2348 342 | |
| | Other information: | | | - | |

| SECTIO | ECTION 2. Hazards identification | | | | |
|----------|--|--------------------|----------------|---------------------|--|
| 2.1 | Classification of the substance | or mixture | | | |
| 2.1.1 | Classification according to Reg | ulation (EC) No 12 | 272/2008 (CLP) | | |
| | Hazard class and categ | ory code: | | Hazard statements*: | |
| | Flam. Liq. 2 H225 | | | | |
| 2.1.2. | Additional information | | | | |
| | - | | | | |
| *For ful | l text of Hazard- and EU Hazard | -statements: see S | ECTION 16 | | |
| 2.2 | Label elements | | | | |
| | Product identification: EOSIN Y 2% ALCOHOLIC | | | | |
| | Identification number: - | | | | |
| | Authorization number: | - | | | |



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| Trading name: | EOSIN Y 2% ALCOHOLIC | | | | |
|---------------|----------------------|----------------------|------------------|------------|--|
| Product code: | EOYA-20-OT-X** | Date of compilation: | 14 November 2022 | Version: 2 | |

| | Signal word: Hazard statements: | GHS02 Danger H225 Highly flammable liquid and vapor. P210 Keep away from heat/sparks/open flames/hot surfaces Do not |
|-----|--|--|
| | Precautionary statements: | smoke. P233 Keep container tightly closed. P280 Wear protective gloves/protective clothing/eye/protection/face protection. |
| | Supplemetal hazard information (EU): | - |
| 2.3 | Other hazards | |
| 2.5 | Endocrine Disrupting Prope No known endocrine disrupti | |

| SECTION 3. Co | SECTION 3. Composition/information on ingredients | | | | | | |
|--|---|--------------------------------|---------------------|--|--|--|--|
| CAS/ EC/ Index number | REACH Registration No | Weight % content (or range) | Identification name | Classification according to Regulation (EC) No 1272/2008 (CLP) | | | |
| 64-17-5/ 200-578-6/ 603-002-00-5 | 01-2119457610-43- 0147 | 70-90 % | ethanol | Flam. Liq. 2; H225 | | | |
| 64-19-7/ 200-580-7/ 607-002-00-6 | - | 0.2 – 0.5 % | acetic acid | Flam. Liq. 3; H226 Skin Corr. 1A; H314 | | | |

| SECTI | SECTION 4. First aid measures | | | | |
|-------|-----------------------------------|--|--|--|--|
| 4.1 | Description of first aid measures | | | | |
| | General notes: | If the suggested first aid measures do not prove sufficient, seek medical attention. | | | |
| | Following inhalation: | Carry the afflicted person out of the contaminated area into a well- ventilated area or out for fresh air. In case of difficult breathing, provide the afflicted person with oxygen. | | | |



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| Trading name: | EOSIN Y 2% ALCOHOLIC | | | | |
|---------------|----------------------|----------------------|------------------|------------|--|
| Product code: | EOYA-20-OT-X** | Date of compilation: | 14 November 2022 | Version: 2 | |

| | Following skin contact: | Remove contaminated clothing. Immediately wash with plenty of water for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain. |
|-----|-------------------------------------|--|
| | Following eye contact: | Rinse out with plenty of water with the eyelid held wide open for at least 20 minutes. If the symptoms remain, immediately call in ophthalmologist. |
| | Following ingestion: | Rinse the mouth thoroughly with 1-2 glasses of water. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital. |
| | Self-protection of the first aider: | - |
| 4.2 | Most important symptoms and ef | fects, both acute and delayed |
| | Following inhalation: | Depending on concentration and exposure time, it may lead to mucosa irritation, cough, and dyspnea. |
| | Following skin contact: | Depending on concentration and exposure time, it may lead to irritation, rash, skin drying and skin cracking. |
| | Following eye contact: | Depending on concentration and exposure time, it may lead to irritation, tearing, redness and pain. |
| | Following ingestion: | Depending on concentration and exposure time, it may lead to stinging and digestive mucus damage, abdominal pain, nausea, vomiting. |
| 4.3 | Indication of any immediate medi | cal attention and special treatment needed |
| | - | |

| SECTIO | SECTION 5. Firefighting measures | | | | |
|--------|--|---|--|--|--|
| 5.1 | Extinguishing media | | | | |
| | Suitable extinguishing media: | Small fire - water spray, dry powder, CO ₂ Large fire - water spray or alcohol resistant foam | | | |
| | Unsuitable extinguishing media: | Water with full jet | | | |
| 5.2 | Special hazards arising from the substance or mixture | | | | |
| | Hazardous combustion products: | Formation of toxic gases is possible during heating or in case of fire. | | | |
| 5.3 | Advice for firefighters | | | | |
| | Use a self-contained open-circuit of | compressed air breathing apparatus and fireproof clothing. | | | |
| 5.4 | Additional information | | | | |
| | Cool endangered receptacles with contaminate the environment with | water spray. Collect contaminated fire fighting water separately. Do not extinguishing media. | | | |

| SECTION 6. Accidental release measures | |
|--|---|
| 6.1 | Personal precautions, protective equipment and emergency procedures |



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| Trading name: | | EOSIN Y 2% ALCC | HOLIC | | |
|---------------|----------------|----------------------|------------------|----------|---|
| Product code: | EOYA-20-OT-X** | Date of compilation: | 14 November 2022 | Version: | 2 |

| 6.1.1. | For non-emergency personnel | |
|--------|--|--|
| | Protective equipment: | Use personal protective equipment (see Section 8). |
| | Accident prevention methods: | Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke. Keep away from ignition sources. |
| | Emergency procedures: | Mark the area using proper signs. |
| 6.1.2. | For emergency responders: | |
| | Use protective equipment; in c (see Section 8). | ase of inadequate ventilation use adequate airways protective equipment |
| 6.2 | Environmental precautions: | |
| | Do not dispose of in sewage, d Protection and Rescue Director | lrainage system and waterways. In case of large spillage contact National rate (NPRD) on 112. |
| 6.3 | Methods and material for cont | ainment and cleaning up |
| 6.3.1. | Bunding, covering of drains; capping procedures: | Sand protective barrier or barriers made of similar materials. |
| 6.3.2. | Cleaning up: | Where possible, the substance can be absorbed by using absorbing material. Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water. |
| 6.3.3. | Other information: | Secure proper ventilation. Do not use incompatible materials (see Section 10). |
| 6.4 | Reference to other sections | |
| | See Section 7 for information of | on safe handling. |
| | See Section 8 for information of | on personal protection equipment. |
| | See Section 13 for disposal info | ormation. |

| SECTIO | DN 7. Handling and storage | |
|--------|--|---|
| 7.1 | Precautions for safe handling | |
| 7.1.1. | Protection measures | |
| | Measures to prevent fire: | Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke. |
| | Measures to prevent aerosol and dust generation: | Secure proper ventilation. |
| | Measures to protect the environment: | Prevent spilling into the sewage system and waterways. |
| | Other measures: | Protect against electrostatic charges. |
| 7.1.2. | Advice on general occupational hygiene: | |



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| Trading name: | | EOSIN Y 2% ALC | OHOLIC | | |
|---------------|----------------|----------------------|------------------|----------|---|
| Product code: | EOYA-20-OT-X** | Date of compilation: | 14 November 2022 | Version: | 2 |

| | Do not eat, drink or smoke in the workspace. Th | noroughly wash hands after work and before eating. |
|-----|--|---|
| 7.2 | Conditions for safe storage, including any incon | npatibilities |
| | Technical measures and storage conditions: | Keep in tightly closed and upright set containers in a well ventilated storage rooms at temperatures ranging from 15 to 25 °C. Protect from heat and direct sunlight. |
| | Packaging materials: | Manufacturer's original packaging. |
| | Requirements for storage rooms and vessels: | Keep away from food and drink. Keep the containers tightly closed. |
| | Advices for storage equipment: | The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation. |
| | Further information on storage conditions: | Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 10). |
| 7.3 | Specific end use(s) | |
| | Recommendations: | - |
| | Industrial sector specific solutions: | - |

| SECTION 8. Exp | osu | re contro | ols/perso | onal pr | otecti | ion | | | | |
|-----------------------|------|----------------------|------------|---------|------------------|----------|----------------------|----|---------------------|---------------------------------|
| 8.1 Control | par | ameters | | | | | | | | |
| Substar | nce | | CA | S No | | • | ational o s/short | • | ure limit values | Biological limit values |
| | | | | | | рр | m | m | g/m³ | - |
| Ethanol | | | 64 | -17-5 | | 100 | 0/- | 19 | 900/- | - |
| | | | | | | | | | | |
| Substance name | e: | - | | | | | | | | |
| EC No: | | - | CAS No | : | - | | | | | |
| DNEL | | | | | | | | | | |
| | | | | | | Indus | strial | | | |
| Route of exposure: | | Acu effect | | effe | Acute ct syst | | | | onic t local | Chronic effect systemic |
| Oral | | - | | - | | | - | | | - |
| Inhalation | | 1900 mg (ethanol) | | - | | | - | | | 380 mg/m ³ (ethanol) |
| Dermal | | - | | - | | | - | | | 343 mg/kg (ethanol) |
| Critical physical | para | meters: s | olubility, | flamm | ability | , corros | sivity: | | - | |



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| Trading name: | | EOSIN Y 2% ALCO | DHOLIC | |
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| | | | Co | onsi | umer | |
|--------------------------------------|-------------------------------------|---|------------------------|---|---|---|
| Route of | | Acute | Acute | •_ | Chronic | Chronic |
| exposure: | | effect local | effect system | IC | effect local | effect systemic |
| Oral | | - | - | | - | 87 mg/kg bw/day (ethanol) |
| Inhalation | | 950 mg/m ³ (ethanol) | - | | - | 114 mg/m ³ (ethanol) |
| Dermal | | - | - | | - | 206 mg/kg (ethanol) |
| PNEC | | | | • | | |
| Environme | ntal protec | tion target | | PI | NEC | |
| Fresh wate | r | | | 0. | 96 mg/l (ethanol) | |
| Freshwater | sediments | 5 | | 3. | 6 mg/kg (ethanol) | |
| Marine wat | ter | | | 0. | 79 mg/l (ethanol) | |
| Marine sed | liments | | | 2. | 9 mg/kg (ethanol) | |
| Food chain | | 38 | 30-720 mg/kg (ethanol) | | | |
| Microorganisms in sewage treatment 5 | | 58 | 580 mg/l (ethanol) | | | |
| Soil (agricu | (agricultural) 0.63 mg/kg (ethanol) | | | | | |
| Air | | | | no | o information available | |
| 8.2 | Exposure | e controls | | | | |
| 8.2.1. | Appropr | iate engineering o | controls | | | |
| | | ce/mixture relatec exposure during i | | pr | se the product in well ventil rotective equipment. Do no orkspace. | - |
| | Structura exposure | al measures to pre e: | event | In accordance with Section 7. | | |
| | Organisa exposure | ational measures t e: | to prevent | Organization of work in order to reduce other worker's influence during work process. | | |
| | Technica | l measures to pre | event exposure: | сс | ecure proper workspace ver oncentration levels in air bel ations for rinsing eyes and s | ow permitted levels. Secure |
| 8.2.2. | Personal | protection equip | ment | | | |
| 8.2.2.1. | Eye and | face protection: | levels | of c | | 66) or visor in case of lower ve gas mask that covers the concentration in air. |
| 8.2.2.2. | Skin prot | tection | | | | |
| | | | | | | |



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| Trading | name: | | EOSIN Y 2% ALC | OHOLIC | | |
|----------|-----------------|---|---|---|--|--------------|
| Product | code: | EOYA-20-OT-X** | Date of compilation: | 14 November 2022 | Version: | 2 |
| | Hand | protection: | The protective gloves hav Regulation (EU) 2016/429 Glove material: n Glove thickness: Time until perfor | 5 and the related standard itrile rubber 0.40 mm | | |
| | Other | skin protection: | During everyday work us footwear, such as rubber entire foot. In case of spil impermeable material su (Viton, PVC, himex) and f | boots (EN 20345) or sho lling hazard, use clothing itable for protection from | es that cover made of Iquid chem | the icals |
| 8.2.2.3. | Respi | ratory protection: | Protective full face mask with a filter for organic va acording to EN 14387) us | apors, type "A" (boiling p | oint >65°C) | |
| 8.2.2.4. | Therm | nal hazards: | No information available | | | |
| 8.2.3. | Enviro | onmental exposure controls | , | | | |
| | | ance/mixture related ures to prevent exposure: | See Section 6 | | | |
| | Struct expos | ural measures to prevent ure: | Use modern equipment. | | | |
| | - | nisational measures to nt exposure: | Adapt the work process t workplace. | to the required working c | onditions of | the |
| | Techn expos | ical measures to prevent ure: | See Section 6 | | | |

| .1 | Information on basic physical and o | chemical properties | |
|----|---|---------------------------------------|--------------------------|
| | | Value | Method |
| | Physical state: | liquid | No information available |
| | Colour: | orange to pink-red | No information available |
| | Odour/odour threshold: | ethanol like/no information available | No information available |
| | Melting point / freezing point: | No information available | No information available |
| | Boiling point or initial boiling point and boiling range: | No information available | No information available |
| | Flammability: | No information available | No information available |
| | Lower and upper explosion limit: | No information available | No information available |
| | Flash point: | 21 °C | No information available |
| | Auto-ignition temperature: | No information available | No information available |
| | Decomposition temperature: | No information available | No information available |



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| Trading name: | | EOSIN Y 2% ALC | OHOLIC | | |
|---------------|----------------|----------------------|------------------|----------|---|
| Product code: | EOYA-20-OT-X** | Date of compilation: | 14 November 2022 | Version: | 2 |

|).2 | Other information | | |
|-----|--|--------------------------|--------------------------|
| | Particle characteristics: | No information available | No information available |
| | Relative vapour density: | No information available | No information available |
| | Density and/or relative density: | No information available | No information available |
| | Vapour pressure: | No information available | No information available |
| | Partition coefficient n- octanol/water (log value): | No information available | No information available |
| | Solubility: | No information available | No information available |
| | Kinematic viscosity: | No information available | No information available |
| | pH: | 5.4 -5.7 | No information available |

| SECTIO | SECTION 10. Stability and reactivity | | | | | | |
|--------|--------------------------------------|---|--|--|--|--|--|
| 10.1 | Reactivity: | See subsections 10.3 through 10.5. | | | | | |
| 10.2 | Chemical stability: | The product is chemically stable under standard ambient conditions of storing and using (room temperature). | | | | | |
| 10.3 | Possibility of hazardous reactions: | No dangerous reactions known. | | | | | |
| 10.4 | Conditions to avoid: | Avoid heat, sparks, open flames and other ignition sources. | | | | | |
| 10.5 | Incompatible materials: | No further relevant information available. | | | | | |
| 10.6 | Hazardous decomposition products: | No dangerous decompostion products known. | | | | | |

| SECTION 11. T | oxicological info | rmation | | | |
|-----------------------|------------------------------------|--------------------------|--|---------------|---------------|
| 11.1 Inform | ation on hazard c | lasses as defined in | Regulation (EC) No 127 | 2/2008 | |
| Acute | toxicity: | | | | |
| Route of exposure: | Method | Species | Dose LD ₅₀ /LC ₅₀ or ATE _{mix} | Exposure time | Results |
| Oral: | - | rat (ethanol) | LD ₅₀ | - | 7.060 mg/kg |
| Dermal: | - | rabbit (ethanol) | LD ₅₀ | - | >20.000 mg/kg |
| Inhalation: | - | rat (ethanol) | LC ₅₀ | 4 h | >8.000 mg/l |
| | · | | ·` | | |
| Specifi | c target organ to | kicity – single exposu | ure (STOT SE): | | |
| | S | pecific effects | Target o | organ | Note |
| Oral: | No informat | tion available | No information available | | |
| Dermal: | No informat | No information available | | available - | |
| Inhalation: | halation: No information available | | No information a | | |



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| Trading name: | | EOSIN Y 2% ALC | OHOLIC | | |
|---------------|----------------|----------------------|------------------|----------|---|
| Product code: | EOYA-20-OT-X** | Date of compilation: | 14 November 2022 | Version: | 2 |
| | | | | | |

| Aspirati | on hazar | ·d: | | No information available. | | | | |
|-------------------------------------|-----------------------------|-------------------|--------------------------------|--------------------------------|--------------------------------|------------------------------|--------|--|
| Irritatio | n and co | rrosion | | | | | | |
| 1 | | Exposur | e time | Species | Evaluation | Method | Note | |
| Skin corrosion/irritatio | on: | - | - | - | - | - | - | |
| Serious eye damage/irritation | | | - | - | - | - | | |
| Sensitiz | ation | | | | | | | |
| Skin sensitizatior | ו: | No inf | ormation ava | ilable. | | | | |
| Respiratory sense | itization: | No inf | ormation ava | ilable. | | | | |
| | | | | | | | | |
| Sympto | ms relate | ed to the ph | ysical, chemi | cal and toxicolo | gical characteri | stics | | |
| Oral exposure: | N | lo informati | on available. | | | | | |
| Dermal exposure | e: N | lo informati | on available. | | | | | |
| Inhalation exposure: No information | | on available. | | | | | | |
| Eye exposure: | N | lo informati | on available. | | | | | |
| | | | | | | | | |
| Repeate | ed dose t | toxicity (sub | acute, subchr | onic, chronic) | | | | |
| | Γ | Dose | Exposure time | Species | Method | Evaluatio | n Note | |
| Subacute oral | No in availab | nformation ble | No information available | No information available | No information available | No informati available | on - | |
| Subacute dermal | No information available | | No information available | No information available | No information available | No informati available | on - | |
| Subacute inhalation | No information available | | No information available | No information available | No information available | No informati available | on - | |
| Subchronic oral | al No information available | | No information available | No information available | No information available | No informati available | on - | |
| Subchronic dermal | No in availab | nformation ble | No information available | No information available | No information available | No informati available | on - | |



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| Trading name: | | | | | EOSIN Y 29 | % ALC | OHOLIC | | | je 10 of 17 | |
|-----------------------|---|--------------------------------------|--------------------------------|---|---|--|--------------------------|--------------------------------|-------|--------------|-----|
| Product code: | EC | YA-20-OT-> | (** | * Date of compilation: | | | 14 November 2022 | | | Version: 2 | |
| Subchronic inhalation | | No information information available | | n ir | lo nformation vailable | No information available | | No information available | | _ | |
| Chronic oral | No availa | information able | No information available | n ir | lo nformation vailable | No infor avail | mation able | No informatio available | on | - | |
| Chronic dermal | No information available | | No information available | n ir | lo nformation vailable | No infor avail | mation able | No informatio available | on | - | |
| Chronic inhalation | No information available No informa availab | | | n ir | lo nformation vailable | No infor avail | mation able | No informatio available | on | - | |
| c ::: | | | | | (6707 | | | | | | |
| Specific | target | organ toxicit | y – repeatec Specific eff | | osure (STOT | KE): | Target o | rgan | | Note | |
| Subacute oral | | No informa | tion availab | | | Target organ No information available | | - | | | |
| Subacute derma | | | ation available | | No information available | | _ | | | | |
| Subacute inhalat | | | ation available | | No information available | | - | _ | | | |
| Subchronic oral | | No informa | tion availab | able No information availa | | n available | - | | | | |
| Subchronic derm | nal | No informa | tion availab | le | | No information available - | | - | | | |
| Subchronic inhal | ation | No informa | tion available N | | No information available | | - | | | | |
| Chronic oral | | No informa | tion availab | on available No | | No in | No information available | | - | | |
| Chronic dermal | | No informa | tion available | | No information available | | - | | | | |
| Chronic inhalatic | n | No informa | tion availab | le | | No in | formatior | n available | - | | |
| i | | | | | | | | | | | |
| | | arcinogenicit | y; mutagenio | - | | | | | | | |
| Carcino | | | | | | | | | | a are not me | |
| Mutage | · · · · · · · · · · · · · · · · · · · | n vitro: | | | Based on available data, the classification criteria are not met. | | | | | | |
| Genoto | - | • | | Based on available data, the classification criteria are not met. | | | | | | | |
| Mutage | | | | | Based on available data, the classification criteria are not met.Based on available data, the classification criteria are not met. | | | | | | |
| Reprodu | | agenicity: coxicity: | | | | | | | | a are not me | |
| Summa propert | | evaluation | of the | CMR | Based on met. | availab | le data, t | he classifica | ation | criteria are | not |
| 11.2 Informa | tion or | n other hazard | ds: | | | | | | | | |
| 11.2.1. Endocri | ne disr | upting prope | rties: | | | | | | | | |



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| Trading name: | | EOSIN Y 2% ALC | COHOLIC |
|-------------------|---|----------------------|-----------------------------|
| Product code: | EOYA-20-OT-X** | Date of compilation: | 14 November 2022 Version: 2 |
| | vn endocrine disrupting ct human health. | properties | |
| 11.2.2. Other inf | ormation: | | |

-

| SECTION 12. Eco | ologica | l informat | ion | | | | |
|---------------------------------------|---------|------------------|--------------------------|--------------------------------|--------------------------------|----------------------------------|------|
| 12.1 Toxicity | | | | | | | |
| Acute (short-tern toxicity | n) | Dose | Exposure time | Species | Method | Evaluation | Note |
| Fish | | LC ₅₀ | 96 hours | Golden orf | No information available | 8.140 mg/l /48 h (ethanol) | - |
| Crustacea: | 1 | EC ₅₀ | 48 hours | Daphnia magna | No information available | 7.800 mg/l (ethanol) | - |
| Algae/aquatic plants IC ₅₀ | | 4 days | No information available | No information available | 5.000 mg/l / 7d (ethanol) | - | |
| Other organisms | | - | - | - | - | - | - |
| Chronic (long-ter toxicity | rm) | Dose | Exposure time | Species | Method | Evaluation | Note |
| Fish | | LC ₅₀ | 96 hours | No information available | No information available | No information available | - |
| Crustacea: | | EC ₅₀ | 48 hours | No information available | No information available | No information available | - |
| Algae/aquatic plants | | IC ₅₀ | 72 hours | No information available | information | | - |
| Other organisms | | _ | - | - | - | - | - |
| | | | | | | | |
| 12.2 Persister | nce and | d degradab | ility | | | | |
| Abiotic | degrada | ation | | | 1 | 1 | |
| | Degr | radation ha | lf-lives | Method | Evaluatio | n | Note |
| Marine water | No info | ormation av | vailable | No information available | No informatio available | n _ | |



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| Taal | _ | | | | | FOCINING | / | | | Ра | ge 12 of 17 | |
|---|--------------------------|----------------------------|-----------------|-------------------|-----------------|-----------------------|--------------|-----------------------------|---------|--------------------|--------------|---|
| Trading name | | | | | _ | EOSIN Y 29 | | | | | | |
| Product code | • | EOYA-20 | -OT-X* | * | Dat | e of compilat | ion: | 14 Nc | vembe | r 2022 | Version: | 2 |
| Fresh water | No | informatio | on avail | able | | | | No information available | | - | | |
| Air | No | No information available | | | No in availa | formation ble | - | informatio ilable | n | - | | |
| Soil | No information available | | No in availa | formation ble | | information ilable | n | - | | | | |
| Biode | gradat | ion | | | | | | | | | | |
| % Degradati | - | | ne (days |) | | Method | | Evaluatio | n | | Note | |
| No informatior available | 1 | No available | | nation | No in availa | formation ble | | information ilable | n | No info availab | rmation e | |
| | | ative pote ter partitio | | icient (| log Kov | v) | | | | | | |
| Value | | entration | | H | °C | Method | | Evalu | ation | | Note | |
| | | | - | | - | - | | - | | - | | |
| | | | | | | | | | | | | |
| Biocol | ncentr | ation fact | or (BCF) | | | | | | | | | |
| Value | | Sp | pecies | | Method | | Evaluation | | Note | | | |
| No information available | | No available | inform | nation | | | | No information available | | - | | |
| | | | | | | | | | | | | |
| Chron | ic eco | toxicity | | * | | | 2 | | - | | | |
| Valu | Value Dose Ex | | | osure ime | Species | | Method | Evalu | uation | Note | | |
| Chronic toxicity on fish LC ₅₀ | | No infor | mation | No information | 1 | o formation | No inform | nation | - | | | |
| Chronic toxicity | / on fi | sn LC | -50 | availa | | available | av | ailable | availal | ole | | |



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| Trading name: | | EOSIN Y 2% ALCO | HOLIC | | |
|---------------|----------------|----------------------|------------------|----------|---|
| Product code: | EOYA-20-OT-X** | Date of compilation: | 14 November 2022 | Version: | 2 |

| | Known or pre | | | | | |
|-----------|---|-----------------------------|-----------------------------|-------------------------------|--------------------------|---------------|
| | | edicted distributi | on in environmen | tal compartments: | | |
| | No informati | on available | | | | |
| | Surface tensi | on: | | | | |
| | Value | °C | Concentratio | n Metho | od | Note |
| i | No No information information available available | | No information available | n No information available | n _ | |
| I | Adsorption / | desorption | | | | |
| Transpor | + | coefficient y's constant | log Kow | Evaporation rate | Method | Note |
| Soil-wate | er No availabl | er No information available | | No information available | No information available | - |
| Water-air | air No information available | | No information available | No information available | No information available | - |
| Soil-air | No availabl | information e | No information available | No information available | No information available | - |
| | | | | | | |
| | | T and vPvB asses | | | | |
| | Based on ava | illable data, the p | product does not o | contain any PBT or v | PvB substances. | |
| 10.0 | For the entire scale. | | | | | |
| | | srupting properti | | | | |
| | Daseu on ava | illable data, does | not contain endo | crine disruptors. | | |
| 12.7 | Other advers | e effects | | | | |
| | | effects are expect | ed | | | |
| | | | | | | |
| SECTION | N 13. Disposa | l consideration | s | | | |
| 13.1 | - | tment methods | | | | |
| | | | | | | |
| 13.1.1. | Product/Pa | ckaging disposa | : | | | |
| | Submit for Protection. | disposal to the l | egal person autho | rized by the Ministr | y of Environmenta | al and Nature |



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| Trading name: | | EOSIN Y 2% ALC | COHOLIC |
|---------------|----------------|----------------------|-----------------------------|
| Product code: | EOYA-20-OT-X** | Date of compilation: | 14 November 2022 Version: 2 |
| | | | |

| 13.1.2. | Waste codes/waste desig | Waste codes/waste designations according to Law: | | | | | | |
|----------------------------|--|--|--|--|--|--|--|--|
| | 15 01 10*: Packaging tha substances | t contains residual hazardous substances or is contaminated with hazardous | | | | | | |
| | | | | | | | | |
| 13.1.3. | Waste treatment – releva | int information: | | | | | | |
| | No information available | | | | | | | |
| | | | | | | | | |
| 13.1.4. | Sewage disposal – releva | nt information: | | | | | | |
| | Waste must not be dispo | osed of into the sewage system. | | | | | | |
| | | | | | | | | |
| 13.1.5. | Other disposal recomme | ndations: | | | | | | |
| | authorized by the ministr | oduct's remains into the sewage system. Submit the remains to the collectors ry in charge. Do not dispose of the packaging into the sewage system. Submit ectors authorized by the ministry in charge. | | | | | | |
| 13.1.6. | Relevant Community pro | visions: | | | | | | |
| | Disposal must be made a | according to official regulations. | | | | | | |
| | | | | | | | | |
| SECTIO | N 14 TRANSPORT INFORM | ΛΑΤΙΟΝ | | | | | | |
| | Transporting/shipment by | road (ADR) | | | | | | |
| UN num | ber: | 1170 | | | | | | |
| UN prop | per shipping name: | Ethanol solution | | | | | | |
| Transpo | rt hazard class(es): | 3 | | | | | | |
| Packing | group: | П | | | | | | |
| Environr | mentally hazardous: | - | | | | | | |
| Special p | precautions for user: | - | | | | | | |
| | Transporting/shipment by | rail (RID) | | | | | | |
| UN num | ber: | 1170 | | | | | | |
| UN prop | per shipping name: | Ethanol solution | | | | | | |
| | rt hazard class(es): | 3 | | | | | | |
| Packing | group: | II | | | | | | |
| Environmentally hazardous: | | - | | | | | | |
| | precautions for user: | - | | | | | | |
| | Inland waterway transport | (ADN) | | | | | | |
| UN num | | 1170 | | | | | | |
| UN prop | per shipping name: | Ethanol solution | | | | | | |
| | rt hazard class(es): | 3 | | | | | | |



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| Trading name: | EOSIN Y 2% ALCOHOLIC | | | | |
|---------------|----------------------|----------------------|------------------|----------|---|
| Product code: | EOYA-20-OT-X** | Date of compilation: | 14 November 2022 | Version: | 2 |

| Packing group: | П |
|---|------------------|
| Environmentally hazardous: | - |
| Special precautions for user: | - |
| Transporting/shipment by sea (IN | MDG) |
| UN number: | 1170 |
| UN proper shipping name: | Ethanol solution |
| Transport hazard class(es): | 3 |
| Packing group: | II |
| Environmentally hazardous: | - |
| Special precautions for user: | - |
| Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: | - |
| Transporting/shipment by air (IC | AO-TI/IATA-DGR) |
| UN number: | 1170 |
| UN proper shipping name: | Ethanol solution |
| Transport hazard class(es): | 3 |
| Packing group: | П |
| Environmentally hazardous: | - |
| Special precautions for user: | - |
| | |
| Further information: - | |

| SECTIO | SECTION 15. Regulatory information | | | | | | |
|--------|--|---|--|--|--|--|--|
| 15.1 | Safety, health and environmental regulations/legislation specific for the substance or mixture | | | | | | |
| | EU regulations | | | | | | |
| | Authorization and/or restrictions of use | | | | | | |
| | Authorizations: | - | | | | | |
| | Restrictions: | - | | | | | |



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| EOSIN Y 2% ALCOHOLIC | | | | | | |
|----------------------|----------------------|------------------|----------|---|--|--|
| (A-20-OT-X** | Date of compilation: | 14 November 2022 | Version: | 2 | | |
| 1 | ′A-20-OT-X** | | | | | |

| | Other EU regulations: | Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII); |
|------|--|--|
| | Information according 1999 guideline) | 9/13/EC about limitation of emissions of volatile organic compounds (VOC- |
| | National legislation: | Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act |
| 15.2 | Chemical safety assessmen | t |
| | None | |

| SECTIC | ECTION 16. Other information | | | | |
|--------|---|--|--|--|--|
| 16.1 | Indication of changes: | - | | | |
| 16.2 | Abbreviations and acronyms: | ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative | | | |
| 16.3. | Key literature references and source of data: | - | | | |



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| Trading name: | EOSIN Y 2% ALCOHOLIC | | | | | | |
|---------------|----------------------|----------------------|------------------|----------|---|--|--|
| Product code: | EOYA-20-OT-X** | Date of compilation: | 14 November 2022 | Version: | 2 | | |

| 16.4. | Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP) | | | | | |
|----------|---|-------------------------|---|--|--|--|
| Classifi | catior | ו | Classification procedure | | | |
| - | | | - | | | |
| 16.5. | Rele | evant H statements (num | ber and full text) | | | |
| | | H225 | Highly flammable liquid and vapor. | | | |
| | H: | H226 | Flammable liquid and vapor. | | | |
| | | H314 | Causes severe skin burns and eye damage. | | | |
| 16.6. | Trai | ning advice: | - | | | |
| | | | ** "X" in the product code marks different volumes (different packagings of the product) | | | |
| 16.7. | 16.7. Further information: | | We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet. | | | |

ANNEX: Exposure scenario resulting to chemical safety assessment



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| Trade name: | BIOMOUNT NEW LOW | | | | | |
|---------------|------------------|----------------------|------------------|------------|--|--|
| Product code: | BMNL-X** | Date of compilation: | 14 November 2022 | Version: 4 | | |

| SECTI 1.1. | Product identifier | | | | | | |
|----------------------|--|---|--|---|--|--|--|
| | Trade name: | BIO | MOUNT NEW LOW | | | | |
| | Chemical name: | - | - | | | | |
| | Catalogue number: | BM | MNL-X** | | | | |
| 1.2. | Relevant identified use | Relevant identified uses of the substance or mixture and uses advised against | | | | | |
| | Uses: | | For covering micro | scope sections and mounting covering glasses. | | | |
| | Uses advised against: | | Only the identified | uses are advised. | | | |
| | Reason why uses advised rec | | The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes. | | | | |
| 1.3. | Details of the supplier of the safety data sheet | | | | | | |
| | Supplier: | | BioGnost Ltd. | BioGnost Ltd. | | | |
| | Address: | | Medjugorska | Medjugorska 59, Zagreb | | | |
| | Telephone number: | Telephone number: | | +385 1 2409997 | | | |
| | Telefax: | Telefax: | | +385 1 2404039 | | | |
| | e-mail of competent p | ersor | n: <u>msds@biognc</u> | msds@biognost.hr | | | |
| | National contact: | National contact: | | - | | | |
| 1.4. | Emergency telephone numbers | | | | | | |
| | National Protection an | d Res | scue Directorate: | 112 | | | |
| | Medical information: | | | +385 1 2348 342 | | | |
| | Other information: | | | - | | | |

| SECTIO | SECTION 2. Hazards identification | | | | | |
|----------|--|----------------------|----------------------|--|--|--|
| 2.1. | Classification of the substance or | [.] mixture | | | | |
| 2.1.1. | Classification according to Regula | ation (EC) No 127 | 72/2008 (CLP) | | | |
| | Hazard class and categor | ry code: | Warning statements*: | | | |
| | Aspir. Tox. 1 H304 | | | | | |
| 2.1.2. | Additional information | | | | | |
| | EUH066 | | | | | |
| * For fu | ll text of Hazard- and EU Hazard-s | tatements: see SE | ECTION 16 | | | |
| 2.2. | Label elements | | | | | |
| | Product identification: BIOMOUNT NEW LOW | | | | | |
| | Identification number: - | | | | | |
| | Authorisation number: | - | | | | |



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| Trade name: | BIOMOUNT NEW LOW | | | | | | |
|---------------|------------------|----------------------|------------------|------------|--|--|--|
| Product code: | BMNL-X** | Date of compilation: | 14 November 2022 | Version: 4 | | | |

| | Hazard pictograms: | GHS08 | | | | |
|------|--|--|--|--|--|--|
| | Signal word: | Danger | | | | |
| | Hazard statement: | H304 May be fatal if swallowed and enters airways. | | | | |
| | | EUH066 Repeated exposure may cause skin dryness or cracking. | | | | |
| | Precautionary statements: | P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor. P331 Do NOT induce vomiting. P405 Store locked up. P501 Dispose of contents and container in accordance with local regulations. | | | | |
| | Supplemetal hazard information (EU): | _ | | | | |
| 2.3. | Other hazards | | | | | |
| | Environmental Hazards: | | | | | |
| | No significant hazards. Material does not meet the criteria for PBT or vPvB in accordance with REACH Annex XIII. | | | | | |
| | Endocrine Disrupting Properties: | | | | | |
| | No known endocrine disrupting pro | perties. | | | | |

| SECTION 3. Co | SECTION 3. Composition/information on ingredients | | | | | | |
|-----------------------------|---|-----------------------------------|---|---|--|--|--|
| CAS/ EC/ Index number | REACH Registration No | Weight % content (or range) | Identification name | Classification according to Regulation (EC) No 1272/2008 (CLP) | | | |
| - 920-901-0 - | 01-2119456810-40 | 60 – 80 % | Hydrocarbons, C11- C13, isoalkanes, <2% aromatics | Aspir. tox. 1; H304 EUH066 | | | |

| SECTI | SECTION 4. First aid measures | | | | |
|-------|-----------------------------------|---|--|--|--|
| 4.1. | Description of first aid measures | | | | |
| | General notes: | If the suggested first aid measures do not prove sufficient, seek medical attention. | | | |
| | Following inhalation: | Immediately remove from further exposure. Get immediate medical assistance. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. Give supplemental oxygen, if available. If breathing has stopped, assist ventilation with a mechanical device. | | | |



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| Trade name: | | BIOMOUN | BIOMOUNT NEW LOW | | |
|---------------|----------|----------------------|------------------|------------|--|
| Product code: | BMNL-X** | Date of compilation: | 14 November 2022 | Version: 4 | |

| | Following skin contact | Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse. | | |
|------|---|--|--|--|
| | Following eye contact: | Flush thoroughly with water. If irritation occurs, get medical assistance. | | |
| | Following ingestion: | DO NOT induce vomiting. Seek immediate medical attention. | | |
| | Self-protection of the aider | irst - | | |
| 4.2. | Most important sympt | oms and effects, both acute and delayed | | |
| | Following inhalation: | No important symptoms or effects. | | |
| | Following skin contact: | No important symptoms or effects. | | |
| | Following eye contact: | No important symptoms or effects. | | |
| | Following ingestion: | No important symptoms or effects. | | |
| 4.3. | Indication of any imme | diate medical attention and special treatment needed | | |
| | If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriate | | | |

| SECTI | CTION 5. Firefighting measures | | | | | |
|-------|--|---|--|--|--|--|
| 5.1. | Extinguishing media | | | | | |
| | Suitable extinguishing media: | Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames. | | | | |
| | Unsuitable extinguishing media: | Straight streams of water | | | | |
| 5.2. | Special hazards arising from the subst | tance or mixture | | | | |
| | Hazardous by products of fire: Sr | moke, fume, incomplete combustion products, carbon oxides. | | | | |
| 5.3. | Advice for firefighters | | | | | |
| | Evacuate the area. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel. | | | | | |
| 5.4. | Additional information | | | | | |
| | - | | | | | |

| SECTIO | SECTION 6. Accidental release measures | | | | |
|--------|---|--|--|--|--|
| 6.1. | Personal precautions, protective equipment and emergency procedures | | | | |
| 6.1.1. | For non-emergency personnel | | | | |
| | Protective equipment: | See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders. | | | |



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|--------|---|---|---|---|--|--|
| Trade | name: | BIOMOUNT NEW LOW | | | | |
| Produ | ct code: | BMNL-X** | Date of compilation: | 14 November 2022 | Version: 4 | |
| | Accident prevention methods: | | surrounding and o | Avoid contact with spilled material. Warn or evacuate occupants in surrounding and downwind areas if required, due to toxicity or flammability of the material. See Section 5 for fire fighting information | | |
| | Emergenc | y procedures: | See the Hazard Ider Section 4 for First A | ntification Section for Sign id Advice. | ificant Hazards. See | |
| 6.1.2. | For emerg | jency responders: | | | | |
| | Respiratory protection: half-face or full-face respirator with filter(s) for organic vapor and, when appli H2S, or self contained breathing apparatus (SCBA) can be used depending on the size of spill and pot level of exposure. If the exposure cannot be completely characterized or an oxygen deficient atmosph possible or anticipated, SCBA is recommended. Work gloves that are resistant to aromatic hydroca are recommended. Note: gloves made of polyvinyl acetate (PVA) are not water-resistant and are not su for emergency use. Chemical goggles are recommended if splashes or contact with eyes is possible. spills: normal antistatic work clothes are usually adequate. Large spills: full body suit of chemical res antistatic material is recommended. | | | | ize of spill and potential deficient atmosphere is aromatic hydrocarbons tant and are not suitable h eyes is possible. Small | |
| 6.2. | Environme | ental precautions: | | | | |
| | | lls: Dyke far ahead o asements or confined | of liquid spill for later recc d areas. | overy and disposal. Prever | nt entry into waterways, | |
| 6.3. | Methods a | and materials for cor | ntainment and cleaning up | | | |
| 6.3.1. | Bunding, o drains; cap procedure | covering of V oping i es: s | Land Spill: Stop leak if you can do so without risk. Water Spill: Stop leak if you can do so without risk. Confine the simmediately with booms. Warn other shipping. Remove from the surface skimming or with suitable absorbents. Seek the advice of a specialist befusing dispersants. | | ove from the surface by | |
| 6.3.2. | Cleaning u | in. | Absorb or cover with dry earnsfer to containers. Reco | | | |
| 6.3.3. | Other info | ormation: s | Secure proper ventilation. Contact the responsible person; in case of larg spills and possible environmental pollution contact National Protection a Rescue (112). | | 5 | |
| 6.4. | Reference | to other sections | | | | |
| | See Section 7 for information abour See Section 8 for information abour See Section 13 for information abo | | about personal protective | equipment. | | |

| SECTIC | SECTION 7. Handling and storage | | | | | |
|--------|---------------------------------|--|--|--|--|--|
| 7.1. | Precautions for safe handling | | | | | |
| 7.1.1. | Protection measures | | | | | |
| | Measures to prevent fire: | Avoid contact with skin. Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source). | | | | |



| | Page 5 c | | | | of 19 | | |
|-------------|---|---------------------|------------------------|---|------------------|----------|---|
| Trade name: | | BIOMOUNT NEW LOW | | | | | |
| Produ | ct code: | BMNL-X** | Date of compilation | n: | 14 November 2022 | Version: | 4 |
| | Measure | s to prevent aeroso | l and dust generation: | Secure proper ventilation. | | | |
| | Measures to protect the environment: Other measures: | | vironment: | When the material is handled in bulk, an electrical spark could ignite any flammable vapors from liquids or residues that may be present (e.g., during switch-loading operations). Use proper bonding and/or earthing procedures. This material is a static accumulator. A liquid is typically considered a nonconductive, static accumulator if its conductivity is below 100 pS/m (100x10E-12 Siemens per meter) and is considered a semiconductive, static accumulator if its conductive, the precautions are the same. A number of factors, for example liquid temperature, presence of contaminants, anti-static additives and filtration can greatly influence the conductivity of a liquid. | | | |
| | | | | | | | |
| 7.1.2. | Advice o | n general occupatio | onal hygiene: | | | | |
| | Always observe good personal hygiene measures, su | | | uch as washing after handling the material and before | | | |

eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

| 7.2. | Conditions for safe storage, including any incompatibilities |
|------|--|
| 1.2. | Conditions for sale storage, including any incompatibilities |

specific solutions:

| 1.2. | Conditions for safe storage, including any incompatibilities | | | | |
|------|---|---------------------------|--|--|--|
| | Technical measures an | d storage conditions: | Keep in a cool and well-ventilated area. | | |
| | Packaging materials: | | Teflon, polypropylene, stainless steel, carbon steel. | | |
| | Requirements for storage rooms and vessels: Advices for storage equipment: Further information on storage conditions: | | The type of container used to store the material may affect static accumulation and dissipation. Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. | | |
| | | | Storage containers should be earthed and bonded. Fixed storage containers, transfer containers and associated equipment should be earthed and bonded to prevent accumulation of static charge. | | |
| | | | Suitable materials and coating are carbon steel, stainless steel, teflon, polyethylene, polypropylene. Unsuitable materials and coatings: butyl rubber, natural rubber, ethylene-proplyene-diene monomer (EPDM), polystyrene | | |
| 7.3. | Specific end use(s) | | | | |
| | Recommendations: | Section 1 informs about i | dentified end-uses. | | |
| | Industrial sector | | | | |



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| SECTION 8. Exposur | e contr | ols/personal | l protection | I | | | | |
|---|-----------------|------------------|---------------|--|------------------|--------------------------------|--------------------|--|
| 8.1. Control para | meters | | | | | | | |
| Substance | Substance CAS I | | No | Occupational exposure limit values/short term values | | Biological limit values | | |
| | | | | ppm | mg/m³ | | | |
| Hydrocarbons, C11-C isoalkanes, <2% aron | | - | | 171* | 1200* | 1200* No information available | | |
| * Source - material sa | ifety dat | a sheet provi | ided by the | raw materia | ls supplier | | | |
| Substance: - | | | | | | | | |
| EC No: - | | CAS No: | - | | | | | |
| DNEL | | | | | | | | |
| | | | lı | ndustrial | | | | |
| Route of exposure: | Route exposi | | Route of e | xposure: | Route of ex | posure: | Route of exposure: | |
| Oral | - | | - | | - | | - | |
| Inhalation | - | | - | | - | | - | |
| Dermal | - | | - | | - | | - | |
| Critical physical parar | neters: s | solubility, flar | nmability, co | orrosivity: | - | | | |
| | | | С | onsumer | | | | |
| Route of exposure: | Route exposi | | Route of e | xposure: | Route of ex | posure: | Route of exposure: | |
| Oral | - | | - | | - | | - | |
| Inhalation | - | | - | | - | | - | |
| Dermal | - | | - | | - | | - | |
| PNEC | | | | | | | | |
| Environmental protec | tion tar | get | | PNEC | | | | |
| Fresh water | | | | No information available | | | | |
| Freshwater sediments | 5 | | | No information available | | | | |
| Marine water | | | | No information available | | | | |
| Marine sediments | | | | No inform | nation available | 9 | | |
| Food chain | | | | No inform | nation available | è | | |
| Microorganisms in se | wage tr | eatment | | No inform | nation available | è | | |
| Soil (agricultural) | | | | No inform | nation available | 9 | | |
| Air | | | | No inform | nation available | 9 | | |
| | · | | | | | | | |



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| 8.2. | Exposure controls | |
|----------|--|---|
| 8.2.1. | Appropriate engineering control | S |
| | Substance/mixture related measures to prevent exposure during identified uses: | Do not eat, drink or smoke in the workspace. Use personal protective equipment. Wash hands after handling the product and before eating and/or drinking. |
| | Structural measures to prevent exposure: | Adequate ventilation should be provided so that exposure limits are not exceeded. Use explosion-proff ventilation equipment. |
| | Organisational measures to prevent exposure: | Organization of work in order to reduce other worker's influence during work process. |
| | Technical measures to prevent exposure: | See Section 7.2 |
| 8.2.2. | Personal protection equipment: | |
| 8.2.2.1. | Eye and face protection: | If contact is likely, safety glasses with side shields are recommended. |
| 8.2.2.2. | Skin protection | |
| | Hand protection: | If prolonged or repeated contact is likely, chemical-resistant gloves are recommended. If contact with forearms is likely, wear gauntlet- style gloves. Nitrile, minimum 0.38 mm thickness or comparable protective barrier material with a high performance level for continuous contact use conditions, permeation breakthrough minimum 480 minutes in accordance with CEN standards EN 420 and EN 374. |
| | Other skin protection: | If prolonged or repeated contact is likely, chemical, and oil resistant clothing is recommended. |
| | | If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include: |
| 8.2.2.3. | Respiratory protection: | Half-face filter respirator Type A filter material, European Committee for Standardization (CEN) standards EN 136, 140 and 405 provide respirator masks and EN 149 and 143 provide filter recommendations. |
| | | For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapour warning properties are poor, or if air purifying filter capacity/rating may be exceeded. |
| 8.2.2.4. | Thermal hazards: | No information available. |
| 8.2.3. | Environmental exposure controls | ; |



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| Substance/mixture related measures to prevent exposure: | Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions. |
|---|---|
| Structural measures to prevent exposure: | Use modern equipment. |
| Organisational measures to prevent exposure: | Adapt the work process to the required working conditions of the workplace. |
| Technical measures to prevent exposure: | See Section 6 |

| 1. | Information on basic physical ar | nd chemical properties | |
|-----|---|-----------------------------------|--------------------------|
| | | Value | Method |
| | Physical state: | liquid | No information available |
| | Colour: | colourless | No information available |
| | Odour/odour threshold: | no odour/no information available | No information available |
| | Melting point / freezing point: | No information available | No information available |
| | Boiling point or initial boiling point and boiling range: | 188°C - 210 °C | ASTM D86 |
| | Flammability: | No information available | No information available |
| | Lower and upper explosion limit: | No information available | No information available |
| | Flash point: | 62 °C | ASTM D-93 |
| | Auto-ignition temperature: | 222 °C | ASTM E659 |
| | Decomposition temperature: | No information available | No information available |
| | pH: | Not technically feasible | No information available |
| | Kinematic viscosity: | No information available | No information available |
| | Solubility: | Negligible | No information available |
| | Partition coefficient n- octanol/water (log value): | No information available | No information available |
| | Vapour pressure: | No information available | No information available |
| | Density and/or relative density | No information available | No information available |
| | Relative vapour density: | No information available | No information available |
| | Particle characteristics: | No information available | No information available |
| .2. | Other information | | |



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| SECTIO | SECTION 10.: Stability and reactivity | | | | |
|--------|---------------------------------------|--|--|--|--|
| 10.1. | Reactivity: | No information available | | | |
| 10.2. | Chemical stability: | The product is stable under normal conditions. | | | |
| 10.3. | Possibility of hazardous reactions: | Hazardous polymerization will not occur. | | | |
| 10.4. | Conditions to avoid: | Open flames and high energy ignition sources. | | | |
| 10.5. | Incompatible materials: | Strong oxidants. | | | |
| 10.6. | Hazardous decomposition products: | Material does not decompose at ambient temperatures. | | | |

| 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 | | | | | | |
|--|--------------------------|---------|--|------------------|-----------------|--|
| Acute toxicity: | | | | | | |
| Route of exposure: | Method | Species | Effective Dose LD ₅₀ /LC ₅₀ or ATE _{mixture} | Exposure time | Results | |
| Oral: | No information available | rat | LD ₅₀ > 5000 mg/kg | - | Minimally toxic | |
| Dermal: | No information available | rabbit | LD ₅₀ > 5000 mg/kg | - | Minimally toxic | |
| Inhalation: | No information available | rat | LC ₅₀ > 5000 mg/ m ³ | 8 h | Minimally toxic | |

| | Specific effects | Target organ | Note |
|-------------|--------------------------|--------------------------|------|
| Oral: | No information available | No information available | - |
| Dermal: | No information available | No information available | - |
| Inhalation: | No information available | No information available | - |

| Aspiration haz | ard: | May be fatal if swa aspiration, a nor chemical properti- and also if it is v derived. Risks from be controlled by substances classif implemented to o swallowed then se vomiting. | n-quantifiable h es (i.e. viscosity) omited followin n the physicoch implementing ied as H304, the control the asp | hazard determin that can occur ng ingestion. A emical hazards o risk manageme e following mea iration hazard. | ned by physico- during ingestion DNEL cannot be of substances can nt measures. For sures need to be Do not ingest. If |
|------------------|---------------|--|--|---|---|
| Irritation and o | orrosion | | | | |
| | Exposure time | Species | Evaluation | Method | Note |



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| | | | | | | Page 10 of 19 |
|----------------------------------|--------------------------|--------------------------------|--------------------------------|--------------------------------|-------------------------------|---------------|
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| | | | | | 1 | |
| Skin corrosion/irritatio | on No informa | ation available | - | Not irritating. | - | - |
| Serious eye damage/irritatior | No informa | ation available | - | Not irritating. | - | - |
| Sensitiza | ation | | | | | |
| Skin sensitization | | ed to be a skin | sensitizer. | | | |
| Respiratory sensitization: | | | iratory sensitize | r. | | |
| Sympto | ms related to the p | ohysical, chemi | cal and toxicolo | gical characterist | tics | |
| Oral exposure: | May be fatal if | swallowed and | d enters airways | • | | |
| Dermal exposure | : May dry the sl | kin leading to d | discomfort and o | dermatitis. | | |
| Inhalation exposure: | Negligible haz | ard at ambien | t/normal handlir | ng temperatures | • | |
| Eye exposure: | May cause mil | d, short-lasting | g discomfort to | eyes. | | |
| | | | | | | |
| Repeate | d dose toxicity (su | bacute, subchr | onic, chronic) | | : | |
| | Dose | Exposure time | Species | Method | Evaluation | Note |
| Subacute oral | No information available | No information available | No information available | No information available | No informatio available | n - |
| Subacute dermal | No information available | No information available | No information available | No information available | No informatio available | n - |
| Subacute inhalation | No information available | No information available | No information available | No information available | No informatio available | n - |
| Subchronic oral | No information available | No information available | No information available | No information available | No informatio available | n - |
| Subchronic dermal | No information available | No information available | No information available | No information available | No informatio available | n - |
| Subchronic inhalation | No information available | No information available | No information available | No information available | No informatio available | n - |



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| Trade name: | | | BIOMOUI | NT NEW LOW | | | |
|------------------------|-----------------------------|--------------------------------|--------------------------------|---------------------------------|-------------------------------|--|--|
| Product code: | BMNL-X** | BMNL-X** Date of c | | 14 Novembe | er 2022 | Version: 4 | |
| Chronic oral | No information available | No information available | No information available | No information available | No informatio available | n - | |
| Chronic dermal | No information available | No information available | No information available | No information available | No informatio available | n - | |
| Chronic inhalation | No information available | No information available | No information available | No information available | No informatio available | n - | |
| | | •••••• | (0707 | | | | |
| Specific | target organ toxic | · · · | - | | | Nata | |
| Subacute oral | N | o information | c effects available | Target No available | information | Note - | |
| Subacute derma | I N | No information available | | No available | information | - | |
| Subacute inhalat | ion N | lo information available | | No available | information | - | |
| Subchronic oral | Ν | No information available | | No available | information | - | |
| Subchronic derm | nal N | No information available | | No available | information | - | |
| Subchronic inhal | ation N | No information available | | No available | information | - | |
| Chronic oral | Ν | No information available | | No available | information | - | |
| Chronic dermal | N | No information available | | No available | information | - | |
| Chronic inhalation | | No information available | | No available | information | - | |
| CMR ef | fects (carcinogenic | ity; mutagenici | ty; reproductive | toxicity) | | | |
| Carcinogenicity: | | | Not expec | ted to cause similar materia | | ed on test data fo uivalent or similar to | |
| Mutagenicity in-vitro: | | No informa | tion available | | | | |
| Genoto | xicity: | | No informa | tion available | | | |
| Mutage | nicity <i>in-vivo</i> : | | | tion available | | | |
| Germ ce | ell mutagenicity: | | for structur | - | erials. Test(s) | n. Based on test dat equivalent or simila 3 479. | |



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| Trade name: | | | BIOMOUNT NEW LOW | | | | | | | |
|-------------|-----------------------------------|---------------------------------------|------------------|-------------|--|--------------------------|--|--|--|--|
| Produc | Product code: BMNL-X** Date of co | | | | 14 November 2022 | Version: 4 | | | | |
| | Reprodu | ctive toxicity: | | data for st | ed to be a reproductive ructurally similar material ECD Guideline 413 414 41 | s. Test(s) equivalent or | | | | |
| | Summary propertie | y of evaluation es: | of the CMR | No informa | tion available | | | | | |
| 11.2. | Informat | ion on other hazard | s: | | | | | | | |
| 11.2.1. | Endocrin | e disrupting proper | ties: | | | | | | | |
| | | n endocrine disrupt thuman health. | ting properties | | | | | | | |
| 11.2.2. | Other inf | ormation: | | | | | | | | |

Vapour concentration above recommended exposure levels are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, are anasthetic may have other central nervous system effects. Prolonged and/or repeated skin contact with low viscosity materials may defat skin resulting in possible irritation and dermatitis. Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

| SECTION 12. Ecolog | gical informat | ion | | | | |
|----------------------------------|------------------|------------------|--|--------------------------------|------------|-----------|
| 12.1. Toxicity | | | | | | |
| Acute (short-term) toxicity | Dose | Exposure time | Species | Method | Evaluation | Note |
| Fish: | LC ₅₀ | 96 hours | Oncorhynchus mykiss | No information available | - | 1000 mg/l |
| Crustacea: | EC ₅₀ | 48 hours | Daphnia magna | No information available | - | 1000 mg/l |
| Algae/aquatic plants: | IC ₅₀ | 72 hours | Pseudokirchne riella subcapitata | No information available | - | 1000 mg/l |
| Other organisms: | - | - | - | - | - | - |
| Chronic (long- term) toxicity | Dose | Exposure time | Species | Method | Evaluation | Note |
| Fish: | LC ₅₀ | 96 hours | No information available | No information available | - | - |
| Crustacea: | EC ₅₀ | 48 hours | No information available | No information available | - | - |



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| Trade parts at | | | | DIOMOU | | | Page 1 | צווטכ |
|---|-----------------------------|-------------------------------|--------------------------------------|--------------------------------|----------------------------------|--------|--|------------|
| Trade name: | | | | | NT NEW LOW | ~~~~ | | |
| Product code: | BMNL-X** | D | Date of compilation: | | 14 November 2022 | | Versior | : 4 |
| Algae/aquatic plants: | IC ₅₀ | IC ₅₀ 72 hours | | No information available | No information - available | | - | |
| Other organism | ms: - 21 da | | (s) | Daphnia magna | - | - | NC | ELR 1 mg/l |
| 12.2. Persiste | ence and degradab | oility | | | | | | |
| Abiotic | degradation | | | | | | | |
| | Degradation ha | alf-lives | | Method | Evaluation | n | N | ote |
| Marine water | No information a | vailable | | information ilable | No information available | | - | |
| Fresh water | No information a | o information available | | information ilable | No information available | | - | |
| Air | No information a | o information available | | information ilable | No information available | | - | |
| Soil | No information a | vailable | Δ | | No information available | | - | |
| Biodeg | radation | | | | | | | |
| % Degradation | Time (days | 5) | Method | | Evaluatio | on | N | ote |
| Percent Degraded 31.3: similar material | graded 31.3: | | Ready Biodegradability (water) | | No informati available | on i | Expected to inherently biodegradal | |
| | | | | | | | | |
| 12.3. Bioaccu | umulative potentia | | | | | | | |
| Octano | l-water partition c | oefficient | : (log K | (ow) | Ĩ | | 8 | |
| Value | Concentration | рН | °C | Method | Evalu | ation | 1 | lote |
| >1 | No information available | - | - | Estimated | No inforn available | nation | No inforr available | nation |
| | | | | | | | | |
| Biocon | centration Factor (| BCF) | | | | | | |
| DIOCOTI | | ntration Factor (BCF) Species | | | Evaluation | | | |



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| Produc | t code: | BM | BMNL-X** Date | | Pate of compilation: 14 November | | 2022 | Versio | on: 4 | | |
| No info available | | No information available | | | No information available | | n | No information available | | No information available | |
| | Chronic | ecotoxi | city | | | | | | | | |
| | Value | | Dose | | osure ime | Spe | ecies | Method | Eva | aluation | Note |
| Chronic | toxicity o | n fish | LC ₅₀ | No inforr availa | nation Ible | No inforr availa | nation Ible | No information available | No in availa | formation ble | Not expected. |
| | toxicity o ea (Daphn | | EC ₅₀ | No inforr availa | nation ble | No inforr availa | mation able | No information available | No in availa | formation ble | Not expected. |
| | Surface t | | | | | | | | | | |
| | Value No informat available | ion | °C No informa available | tion I | Concentr No inform available | | No inf availat | Method ormation ble | p e s | lighly volati artition rapi xpected to | idly to air. No |
| Transpo | Adsorpti | A/D | coefficient | | | g Kow | | Evaporation | | 1ethod | Note |
| Soil-Wa | | | /'s constant ation availab | | No available | - | mation | rate No information available | | formation | - |
| Water-Air No information available | | | No information available | | No information available | No in availa | formation ble | _ | | | |



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| Soil-Air | No information available | No available | information | No information available | No information available | - |
|----------|--|-----------------|------------------|--------------------------------|-----------------------------|--------------|
| 12.5. | Results of PBT and vPvB assessme | ent | | | | |
| | Material does not meet the Reach | n Annex XIII | criteria for PB | T or vPvB. | | |
| | | | | | | |
| 12.6. | Endocrine disrupting properties | | | | | |
| | No known endocrine disrupting p | properties th | hat affect the e | environment. | | |
| 12.7. | Other adverse effects | | | | | |
| | No adverse effects are expected. | | | | | |
| | <u>į </u> | | | | | |
| SECTIO | N 13. Disposal considerations | | | | | |
| 13.1. | Waste treatment methods | | | | | |
| | | | | | | |
| 13.1.1. | Product/Packaging disposal: | | | | | |
| | Submit for disposal to the le Protection. Do not dispose of the collectors authorized by the mir | he product's | s remains into | the sewage s | ystem. Submit the re | mains to the |
| 13.1.2. | Waste codes/waste designation | s according | to Law: | | | |
| | The European Waste Catalogu constituents. Determine the EW the hazardous waste list establis | C according | to the criteria | provided in th | ie European Waste Ca | |
| | | | | | | |
| 13.1.3. | Waste treatment – relevant info | | | | | |
| | Disposal recommendations base applicable laws and regulations, | | • • | • | | vith current |
| 13.1.4. | Sewage disposal – relevant info | rmation: | | | | |
| | Product is suitable for burning i incineration at very high temper | n an enclos | | | | - |
| 13.1.5. | Other disposal recommendation | 15. | | | | |
| | | | | | | |



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| | | | | | | |
| | dangero be comp should b in accord GRIND, | us. Do not attempt pletely drained and so taken for recyclin dance with governn OR EXPOSE SUCH | (where applicable): Empty containers may contain residue and can be to refill or clean containers without proper instructions. Empty drums should safely stored until appropriately reconditioned or disposed. Empty container g, recovery, or disposal through suitably qualified or licensed contractor and nental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER EY MAY EXPLODE AND CAUSE INJURY OR DEATH. | | | |
| 13.1.6. | Relevant | Community provis | ions: | | | |
| | - | | | | | |
| | | | | | | |
| SECTION | N 14. Trans | sport information | | | | |
| | Transporti | ng/shipment by roa | ad (ADR) | | | |
| UN num | ber: | | Not subject to transport regulations. | | | |
| UN prop | er shipping | g name: | - | | | |
| Transpor | t hazard cl | ass(es): | - | | | |
| Packing | group: | | - | | | |
| Environm | nental haza | ards: | - | | | |
| Special p | precautions | for user: | - | | | |
| | Transporti | ng/shipment by rail | (RID) | | | |
| UN numl | ber: | | Not subject to transport regulations. | | | |
| | er shipping | | - | | | |
| - | t hazard cl | ass(es): | - | | | |
| Packing | group: | | - | | | |
| Environm | nental haza | ards: | - | | | |
| | precautions | | - | | | |
| | Transporti | ng/shipment by inla | and waterways (ADN) | | | |
| UN numl | | | Not subject to transport regulations. | | | |
| • | er shipping | | - | | | |
| • | t hazard cl | ass(es): | - | | | |
| Packing | - | | - | | | |
| | nental haza | | - | | | |
| | precautions | | - | | | |
| | • | ng/shipment by sea | | | | |
| UN numl | | | Not subject to transport regulations. | | | |
| | er shipping | | - | | | |
| | t hazard cl | ass(es): | - | | | |
| Packing | group: | | - | | | |



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| | | | |
| Environmental haz | ards: | - | |
| Special precaution | s for user: | - | |
| Transport in bulk according to Annex II o MARPOL73/78 and the IBC code: | | - | |
| Transport | ing/shipment by air (IC | CAO-TI/IATA-DGR) | |

| UN number: | Not subject to transport regulations. |
|-------------------------------|---------------------------------------|
| UN proper shipping name: | - |
| Transport hazard class(es): | - |
| Packing group: | - |
| Environmental hazards: | - |
| Special precautions for user: | - |
| | |
| Further information: - | |

| 5.1. | Safety, health and enviror | nmental regulations/legislation specific for the substance or mixture |
|------|----------------------------|--|
| | EU regulations | |
| | Authorisations and/or res | strictions on use |
| | Authorisations: | - |
| | Restrictions: | - |
| | Other EU regulations: | Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certair dangerous substances, mixtures and articles (Annex XVII); |



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| | National | legislation: | Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act | | | |
| 15.2. | Chemical | mical safety assessment | | | | |
| | - | | | | | |

| SECTION 16. Other information | | | | | |
|-------------------------------|---|--|--|--|--|
| 16.1. | Indication of changes: | - | | | |
| 16.2. | Abbreviations and acronyms: | ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative | | | |
| 16.3. | Key literature references and source of data: | - | | | |
| 16.4. | Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP) | | | | |
| Classifi | ication | Classification procedure | | | |
| - | | - | | | |
| 16.5. | Relevant H statements (number and full text) | | | | |
| | H: 304 | May be fatal if swallowed and enters airways. | | | |
| | (EUH066) | Repeated exposure may cause skin dryness or cracking. | | | |
| 16.6. | Training advice: | - | | | |
| 16.7. | Further information: | ** "X" in the product code marks different volumes (different packaging of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet. | | | |

ANNEX: Exposure scenario resulting to Chemical safety assessment

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