

LEUKOGNOST PAS

The kit contains:

Reagent 1 (Periodic acid, LeukoGnost) Reagent 2 (Sodium metabisulfite, LeukoGnost) Reagent 3 (HCL reagent, LeukoGnost) Reagent 4 (BioSchiff Forte reagent)



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| Trading name: | | PERIODIC ACID, LEU | JKOGNOST | |
|---------------|------------|----------------------|-------------|------------|
| Product code: | PKL-OT-X** | Date of compilation: | 21 Dec 2022 | Version: 1 |

| SECTI | ON 1 IDENTIFICATION | OF THE SUE | BSTANCE/MI | XTURE AND OF THE COMPANY/UNDERTAKING | |
|-------|--|---------------------|---|--------------------------------------|--|
| 1.1. | Product identifier | | | | |
| | Trading name: | PERIODIC | PERIODIC ACID, LEUKOGNOST | | |
| | Chemical name: | - | - | | |
| | Catalogue number: | PKL-OT-X** | | | |
| 1.2. | Relevant identified use | es of the sub | ostance or mi | xture and uses advised against | |
| | Uses: | | For use w | ith special staining kits. | |
| | Uses advised against: | | Only the i | dentified 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: Bi | | BioGnost Ltd. | | |
| | Address: N | | Medjugorska | Medjugorska 59, Zagreb | |
| | Telephone number: | Telephone number: + | | 997 | |
| | Fax no.: +3 | | +385 1 24040 | -385 1 2404039 | |
| | e-mail of competent person: <u>m</u> | | msds@biognost.hr | | |
| | National contact: | | | | |
| 1.4. | Emergency telephone number | | | | |
| | National Protection ar | nd Rescue D | irectorate: | 112 | |
| | Medical information: | | | +385 1 2348 342 | |
| | Other information: | | | - | |

| SECTIO | N 2 HAZARDS INFORMATION | | | |
|----------|-------------------------------------|------------------|----------------|---------------------|
| 2.1. | Classification of the substance or | mixture | | |
| 2.1.1. | Classification (REGULATION (EC) N | lo. 1272/2008 | (CLP) | |
| | Hazard class and category | code: | | Hazard statements*: |
| | Not identified as hazardous substa | ance. | - | |
| 2.1.2. | Additional information | | | |
| | - | | | |
| *For ful | l text of Hazard- and EU Hazard-sta | tements: see S | ection 16 | |
| 2.2. | Classification according to EC Dire | ective Nr. 1272, | /2008 CLP) | |
| | Product identification: | PERIODIC AC | ID, LEUKOGNOST | |
| | Identification number: | - | | |
| | Authorization no.: | - | | |
| | Hazard pictograms: | - | | |



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| | Signal word: - | | | |
|------|--|--|--|--|
| | Hazard statements: - | | | |
| | Precautionary statements: - | | | |
| | Further information: - | | | |
| 2.3. | Other hazards | | | |
| | Endocrine Disrupting Properties: No known endocrine disrupting properties | | | |
| | | | | |
| | Results of PBT and vPvB assessment : According to the results of its assessment, this substance is r PBT or a vPvB. | | | |

| SECTION 3 CO | MPOSITION/INFO | RMATION ON INGR | EDIENTS | |
|--------------------------|--------------------------|--------------------------------|------------------------|---|
| CAS/ EC/ Index no. | REACH Registration No | Weight % content (or range) | Identification name | Classification according to Regulation (EC) No 1272/2008 (CLP) |
| - | - | - | - | - |

| SECTION | ON 4 FIRST AID MEASURES | | |
|--|---------------------------------|------------------------------|--|
| 4.1. | Description of first aid meas | ures | |
| | 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. |
| | 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 and effects, both acute and delayed | | ects, both acute and delayed | |
| | Following inhalation: | | ation of large amounts of vapors in inadequately ventilated perimeter cause coughing, sneezing, headache and nausea. |
| | Following skin contact: | | t irritation. After short exposure, resorption effects are not likely. Long- exposure may cause drying, cracking and tingling sensation of skin. |



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| | Following eye contact: | Direct eye contact may cause slight to moderate irritation, lacrimation and burning sensation. |
|------|----------------------------|--|
| | Following ingestion: | 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. |
| 4.3. | Indication of any immediat | e medical 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 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 environme | ent with extinguishing media. | | | |

| SECTIO | ECTION 6 ACCIDENTAL RELEASE MEASURES | | | | |
|--------|--|--|--|--|--|
| 6.1. | Personal precautions, protective equip | oment 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. 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 (see Section 8). | | | | |
| 6.2. | Environmental 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 containmer | it and cleaning up | | | |



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| 6.3.1. | Bunding, covering of drains; capping procedures: | Sand or clay barriers. |
|--------|---|---|
| 6.3.2. | Cleaning up: | 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: | - |
| 6.4. | Reference to other sections | |
| | - | |

| SECTIO | DN 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 a not smoke. | nd ignition. Do | |
| | Measures to prevent aerosol and dust generation | Secure proper ventilation. | | |
| | Measures to protect the environment: | Prevent spilling into the sewage sy waterways. | ystem and | |
| | Other measures: | - | | |
| 7.1.2. | Advice on general occupational hygiene: | | | |
| | Do not eat, drink or smoke in the workspace. T | oughly wash hands after work and be | fore eating. | |
| 7.2. | Conditions for safe storage, including any incompatibilities | | | |
| | Technical measures and storage conditions: | eep in tightly closed and upright set c entilated storage rooms, and away fro unlight, and other incompatible substa | om sources of heat, | |
| | Packaging materials: | lanufacturer's original packaging. | | |
| | Requirements for storage rooms and vessels: | eep away from food and drink. Keep t ghtly closed. | he containers: | |
| | Advices for storage equipment: | he storage must be made of hard mat e resistant to chemicals. There must b irectly leads into sewage system. Secu entilation. | e no drain that | |
| | Further information on storage conditions: | o not place the unused material in the nd do not use empty containers for st nemicals. Do not store with incompati ection 9). | toring other | |
| 7.3. | Specific end use(s) | | | |



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| Recommendations: | - |
|---------------------------------------|---|
| Industrial sector specific solutions: | - |

| SECTIO | ON 8 E | XPOSU | RE CON | TROLS/PER | SONAL | PROTI | ECTION | | | |
|--------------------|----------|----------|-----------|----------------|---------|----------|--------------------------|-------------------------------|----------|-----------------------|
| 8.1. | Cont | rol para | meters | | | | | | | |
| | Subs | tance | | CASI | No | | | exposure limit term values | Bic | ological limit values |
| | | | | | | F | opm | mg/m ³ | - | - |
| - | | | | - | | | - | - | No infor | mation available |
| | | | | | | | | | | |
| Substa name: | nce | - | | | | | | | | |
| EC No: - CAS No: - | | | | | | | | | | |
| DNEL | | | | | | | | | | |
| | | | | | | Ind | ustrial | | | |
| Route | of | | Å | Acute | | Acute | 9 | Chron | ic | Chronic |
| exposi | ure: | | effe | ect local | effe | ect syst | temic | effect lo | ocal | effect systemic |
| Oral | | | - | | - | | | - | | - |
| Inhalat | ion | | - | | - | | | - | | - |
| Derma | I | | - | - | | | - | | - | |
| Critical | physic | al para | neters: s | olubility, fla | mmabili | ty, corr | osivity: | - | | |
| | | | | | | Cor | nsumer | 1 | | |
| Route | - | | | Acute | | Acute | | Chron | | Chronic |
| exposi | ure: | | effe | ect local | effe | ect syst | temic | effect lo | ocal | effect systemic |
| Oral | | | - | | - | | | - | | - |
| Inhalat | ion | | - | | - | | | - | | - |
| Derma | | | - | | - | | | - | | - |
| PNEC | | | | | | | | | | |
| Enviror | nmenta | l protec | tion tar | get | | | PNEC | | | |
| Fresh v | | | | | | | No information available | | | |
| | | diment | S | | | | No information available | | | |
| Marine | e water | | | | | | | mation availab | | |
| Marine | sedim | ents | | | | | No infor | mation availab | e | |
| Food c | hain | | | | | | No infor | mation availab | e | |
| Microo | organisı | ms in se | wage tr | eatment | | | No infor | mation availab | e | |
| Soil (ag | gricultu | ral) | | | | | No infor | mation availab | е | |



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| Air | | | No information available | | |
|----------|--|----------|---|--|--|
| | | | | | |
| 8.2. | Exposure controls | | | | |
| 8.2.1. | 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 preserve 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 | pment | | | |
| 8.2.2.1. | Eye and face protection: | | Safety glasses that stick to face (preventing splashing) (EN 166) or visor. | | |
| 8.2.2.2. | Skin protection | | | | |
| | Hand protection: | | ctive gloves must be according to the EU Directive 2016/425/EEC and ard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min | | |
| | Other skin protection: | | antistatic clothing made of natural fibers (such as cotton) with long es (EN 13034), and shoes that cover the entire foot (EN 10335). | | |
| 8.2.2.3. | Respiratory protection: | filter f | ctive 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 ') used when concentration levels exceed GVI. | | |
| 8.2.2.4. | Thermal hazards: | No in | formation available | | |
| 8.2.3. | Environmental exposure | controls | | | |
| | 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 | | |

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES



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| | Value | Method |
|---|-------------------------------------|--------------------------|
| Physical state: | liquid | No information available |
| Colour: | colourless | No information available |
| Odour/odour threshold: | no odor/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 |
| Lover 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 |
| Relative vapour density: | No information available | No information available |
| Particle characteristics: | No information available | No information available |

| SECTIO | ECTION 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 TOXICOLOGICAL INFORMATION



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| | city: | | | | | |
|--|---|---|---|--|----------|---------------|
| Route of exposure: | Method | Species | Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture} | Exposure 1 | time | Results |
| Oral exposure: | No information available | - | LD ₅₀ | - | | - |
| Dermal exposure: | No information available | - | LD ₅₀ | - | | - |
| Inhalation exposure: | No information available | - | LC ₅₀ | - | | - |
| Specific tar | get organ toxicity – si | ngle exposure (S | STOT SE): | | | |
| | | ic effects | | organ | | Note |
| Oral exposure: | No information | available | No information | on available | - | |
| Dermal exposure: | No information | available | No information | on available | - | |
| Inhalation exposure | : No information | available | No information | No information available | | |
| Irritation a | nd corrosion | | | | | |
| | Exposure time | Species | Evaluation | Method | | Note |
| | _ | rabbit | - | | | |
| Skin irritation: | | | | | | |
| Skin irritation: Eye irritation: | - | rabbit | - | | | |
| | | rabbit | - | | | |
| Eye irritation: | | | - | | | |
| Eye irritation: Sensitizatio | on | able | | | | |
| Eye irritation: Sensitizatio Dermal exposure: Inhalation exposure: | on No information avail | able able | | | | |
| Eye irritation: Sensitizatio Dermal exposure: Inhalation exposure: | on No information avail No information avail related to the physica Swallowing may c sensation; higher | able able I, chemical and t ause irritation of levels of concent g, aspiration cau | toxicological chara f mucosa, tingling tration may cause ises coughing, diff | cteristics sensation in th nausea, abdor | minal pa | ain and vomit |



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| Product code: | Pk | (L-OT-X** | Da | ate of com | pilation: | pilation: 21 Dec 2022 | | Version: 1 | | |
| Inhalation exposi | ure: | coughing, sn | eezing, heada | ache and na | usea. | - | - | neter may cause | | |
| Eye exposure: | | Direct eye co sensation. | ntact may cau | use slight to | moderate | e irritation, | lacrimation | and burning | | |
| Reneate | d dos | e toxicity (sub | acute subchr | onic chroni | c) | | | | | |
| | | Dose | Exposure time | Species | | thod | Evaluatio | n Note | | |
| Subacute oral | No avail | information able | No information available | No informati available | | ormation iilable | No informatio available | on - | | |
| Subacute dermal | No avail | information able | No information available | No informati available | | ormation iilable | No informatio available | on - | | |
| Subacute inhalation | No avail | information able | No information available | No informati available | | ormation iilable | No informatio available | on - | | |
| Subchronic oral | No avail | information able | No information available | No informati available | | ormation iilable | No informatio available | on - | | |
| Subchronic dermal | No avail | information able | No information available | No informati available | | ormation iilable | No informatio available | on - | | |
| Subchronic inhalation | No avail | information able | No information available | No informati available | | ormation iilable | No informatio available | on - | | |
| Chronic oral | No avail | information able | No information available | No informati available | | ormation iilable | No informatio available | on - | | |
| Chronic dermal | No avail | information able | No information available | No informati available | | ormation iilable | No informatio available | on - | | |
| Chronic inhalation | No avail | information able | No information available | No informati available | | ormation iilable | No informatio available | on - | | |
| Specific | target | t organ toxicit | v – repeated e | exposure (S | TOT RF): | | | | | |
| opeenie | | | pecific effects | | - | Target org | an | Note | | |
| Subacute oral | | No informa | ition available | | | nation ava | | - | | |
| Subacute dermal | | No informa | tion available | ļ | No inforr | mation ava | ilable | - | | |
| Subacute inhalat | ion | No informa | ition available | | No inforr | nation ava | ilable | - | | |



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| Subchror | nic oral | No inform | ation available | No inform | nation available | _ | | | | |
| | nic dermal | | ation available | | nation available | - | | | | |
| Subchronic inhalation No informatic | | | | nation available | _ | | | | | |
| | | ation available | | nation available | - | | | | | |
| Chronic o | | | ation available | | nation available | - | | | | |
| Chronic inhalation No informatic | | | | nation available | - | | | | | |
| | | | | | | | | | | |
| | CMR effec | cts (carcinogenici | y, mutagenicity, re | productive toxicit | cy) | | | | | |
| | Carcinoge | enicity: | Current studi | es on test animal | s did not indicate ca | arcinogenic effects. | | | | |
| | Mutageni | city <i>in-vitro:</i> | Current in v | Current <i>in vitro</i> tests did not indicate mutagenic effects. | | | | | | |
| | Genotoxic | city: | No informati | on available | | | | | | |
| | Mutageni | city <i>in-vivo</i> : | Current in v | <i>ivo</i> tests did not | indicate mutageni | ic effects. | | | | |
| | Germ cell | mutagenicity: | No informati | on available | | | | | | |
| | Reproduc | tive toxicity: | No toxicity organs. | No toxicity on reproductive organs was determined in reproductive organs. | | | | | | |
| | Summary of evaluation of the CMR properties: - | | | | | | | | | |
| 11.2 | Informatio | on on other hazar | ds: | | | | | | | |
| 11.2.1. | Endocrine | disrupting prope | erties: | | | | | | | |
| | contain have end according Commissi 2017/2100 | ostance/mixture components co locrine disruptin to REACH Art on Delegated reg 0 or Commission 8/605 at levels | g properties icle 57(f) or gulation (EU) n Regulation | | | | | | | |
| | Other info | ormations: | i | | | | | | | |
| | - | | | | | | | | | |

| SECTION 12 ECOLOG | 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 | - | - | |



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| Crustacea: | | EC ₅₀ | 48 hou | rs | No information available | | No formation available | | - | - | |
|---|----------------|--|---------------|---------------|--------------------------------|--------------------------------|------------------------------|----------------------------------|-----------------------------|------|--|
| Algae/aquatic plants IC_{50} | | IC ₅₀ | 8 days | | No information available | | No formation available | | - | - | |
| Microorganisr | ns | LC ₅₀ | 72 hou | rs | - | - | | | - | - | |
| Chronic toxicity | | Dose | Expos time | | Species | I | Method | Evalu | lation | Note | |
| Fish | | LC ₅₀ | 96 hours | | No information available | | ormation ilable | No informa availab | | - | |
| Crustacea: | | EC ₅₀ | 48 hou | rs | No information available | | ormation ilable | No informa availab | | - | |
| Algae/aquatic plants | | IC ₅₀ | 72 hou | rs | No information available | No information available | | No information - available | | - | |
| Other organis | ther organisms | | | | - | - | | - | | - | |
| | tic degra | ind degrada adation gradation ha | | | Method | | | Evaluatio | 'n | Note | |
| Marine water | | formation av | | No | | | No inform | | | - | |
| Fresh water | No in | formation av | ailable | No | o information available No inf | | No inforn | ormation available - | | - | |
| Air | No in | formation av | ailable | No | information avail | | | | nation available - | | |
| Soil | No int | formation av | ailable | No | | | No inform | nation available - | | - | |
| Biode | egradati | on | | | | | | | | | |
| % Degradatic | • | Time (day | s) | | Method | | Evaluatio | on | 1 | Note | |
| No information No available availabl | | infor | mation | No i avail | nformation | | o informati ⁄ailable | on | No information available | | |
| | | | | | | | | | | | |
| 12.3. Bioad | cumula | tive potentia | il | | | | | | | | |
| Partit | ion coe | fficient: n-oo | tanol/wa | ter (l | og Kow): | | : | | : | | |
| Value | Conce | entration | рΗ | °(| C Method | | Evalu | ation | | Note | |



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| Trading name: | | | | | PE | RIOD | | , LEUK | OGNC | DST | | | |
|--------------------|--|--------------|----------------------|----------------------|----------|--------------------|-----------------------|----------------------|--|-------------------|--------------------|---------------------|---------|
| Produc | ct cod | e: | PKL-C |)T-X** | | Date | e of co | mpilatio | on: 2 | 1 Dec | 2022 | Vers | sion: 1 |
| | | | | | | | | | | | | | |
| - | | No availa | inform able | ation _ | | - | No info availab | ormation le | - | inform ailable | ation | - | |
| | | | | | | | | | | | | | |
| | Bioc | oncen | tration | factor (B | ~F) | | | | | | | | |
| V | /alue | | | Species | - | | Vetho | d | E | valuatio | on | | Note |
| No info availab | ormatio | on | No availab | info | rmation | | ormatio | | | ormatio | | No info availabl | rmation |
| | | | | | | | | | | | | | |
| | Chrc | onic ec | otoxicit | у | | | | | | | | | |
| | Val | ue | | Dose | | Exposure time | | ecies | Met | hod | d Evalua | | Note |
| Chronic | c toxic | ity on | fish | LC ₅₀ | | information inf | | mation able | No inform availat | | No info availab | ormation lle | - |
| Chronic crustac | | - |) | EC ₅₀ | | rmation lable | No infor availa | mation able | No inform availat | | No info availab | ormation lle | - |
| 12.4. | Mob | oility ir | ı soil | | | | | | | | | | |
| | | - | | ed distrib | ution in | environn | nental | compart | ments: | | | | |
| | | | ation av | | | | | | | | | | |
| | Surfa | ace tei | nsion: | | | | | | | | | | |
| | ١ | /alue | | °C | (| Concentra | ation | | Meth | bc | | | Note |
| | NoNoinformationinformationavailableavailable | | | o informa ailable | ition | No info availat | ormatio ole | 'n | - | | | | |
| | | | | | | | | | | | | | |
| | Adso | orptio | n / deso | rption | | | | | | | | | |
| Transpo | | A | /D coef enry's co | ficient | | og Kow | E | vaporatio | on rate | | Method | | Note |
| Soil-wa | ater | No availa | | formatic | | informati lable | | o inform /ailable | nformation No inform able available | | | on _ | |



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| | | | | | | | Page 13 of 16 | | | | |
|----------|---------------------------------|---|--------------------------------------|-----------------------------|-------------|--------------------|---|--|--|--|--|
| Trading | g name: | | PERIODIC ACID, LEUKOGNOST | | | | | | | | |
| Produc | t code: | PKL-OT-X** | PKL-OT-X** Date of compilation: 21 D | | | 2022 | Version: 1 | | | | |
| Water-a | air No avail | information able | No information available | No informatior available | - | nformation able | - | | | | |
| Soil-air | No avail | information able | No information available | No informatior available | | nformation able | - | | | | |
| 12.5. | Results of | f PBT and vPvB asses | ssment | | | | | | | | |
| | according | ance/mixture does to REACH Article 5 n (EU) 2018/605 at l | 7(f) or Commissio | n Delegated reg | | | e disrupting properties 00 or Commission | | | | |
| 12.6. | Endocrine disrupting properties | | | | | | | | | | |
| | according | ance/mixture does g to REACH Article 5 n (EU) 2018/605 at l | 7(f) or Commissio | n Delegated reg | | | e disrupting properties 00 or Commission | | | | |
| 12.7. | Other adv | verse effects | | | | | | | | | |
| | No inforn | nation available | | | | | | | | | |
| | | | | | | | | | | | |
| 13.1. | | OSAL CONSIDERA | HUNS | | | | | | | | |
| | | | | | | | | | | | |
| 13.1.1. | Product/Packaging disposal: | | | | | | | | | | |
| | Submit Protect | for disposal to the l on. | egal person autho | rized by the Min | istry of Eı | nvironment | tal and Nature | | | | |
| 13.1.2. | Waste o | odes/waste designa | ations according to | o Law: | | | | | | | |
| | No info | rmation available | | | | | | | | | |
| | | | | | | | | | | | |
| 13.1.3. | | reatment – relevant | information: | | | | | | | | |
| | No into | rmation available | | | | | | | | | |
| 13.1.4. | Sewage | e disposal – relevant | information: | | | | | | | | |
| | Waste r | nust not be dispose | d of into the sewa | ge system. | | | | | | | |
| 13.1.5. | Other d | lisposal recommend | ations: | | | | | | | | |
| | | | | | | | | | | | |



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| Trading name: | | PERIODIC ACID, LEUKOGNOST | | | | | |
|---------------------|------------------------|---|--|--|--|--|--|
| Product code: | PKL-OT-X** | Date of compilation: 21 Dec 2022 Version: 1 | | | | | |
| authoriz the pac | zed by the ministry in | 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. Do not dispose of in places where | | | | | |
| 13.1.6. Relevan | t Community provision | ons: | | | | | |
| | | | | | | | |
| SECTION 14 TRAN | NSPORT INFORMAT | ION | | | | | |
| Transport | ing/shipment by road | d (ADR) | | | | | |
| UN number: | | Not subject to transport regulations. | | | | | |
| UN proper shippin | g name: | - | | | | | |
| Transport hazard o | lass(es): | - | | | | | |
| Packing group: | | - | | | | | |
| Environmentally ha | azardous: | - | | | | | |
| Special precaution | s for user: | - | | | | | |
| Transport | ing/shipment by rail | (RID) | | | | | |
| UN number: | | Not subject to transport regulations. | | | | | |
| UN proper shippin | g name: | - | | | | | |
| Transport hazard o | lass(es): | - | | | | | |
| Packing group: | | - | | | | | |
| Environmentally ha | azardous: | - | | | | | |
| Special precaution | s for user: | - | | | | | |
| Inland wa | terway transport (AD | N) | | | | | |
| UN number: | | Not subject to transport regulations. | | | | | |
| UN proper shippin | g name: | - | | | | | |
| Transport hazard o | lass(es): | - | | | | | |
| Packing group: | | - | | | | | |
| Environmentally ha | azardous: | - | | | | | |
| Special precaution | s for user: | - | | | | | |
| Transport | ing/shipment by sea | (IMDG) | | | | | |
| UN number: | | Not subject to transport regulations. | | | | | |
| UN proper shippin | g name: | - | | | | | |
| Transport hazard c | lass(es): | - | | | | | |
| Packing group: | | - | | | | | |
| Environmentally ha | azardous: | - | | | | | |
| Special precaution | s for user: | - | | | | | |



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| Trading name: | | PERIODIC ACID, LEU | JKOGNOST | |
|---------------|------------|----------------------|-------------|------------|
| Product code: | PKL-OT-X** | Date of compilation: | 21 Dec 2022 | Version: 1 |

| Transporting/shipment by a | 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: - | |

| 15.1. | Safety, health and enviror | Safety, health and environmental 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 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); | | | | | | |



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| Tradin | g name: | | PERIODIC ACID, LEUKOGNOST | | | | | | | |
|--------|----------|------------------|--|---|---|----------------|--|--|--|--|
| Produc | ct code: | PKL-OT-X** | Date of compilation: | 21 Dec 2022 | Version: 1 | | | | | |
| | National | legislation: | Chemicals Act, Regulation on class dangerous substances, Ordinance and on biological limit values, Reg classification of waste with a waste Ordinance on writing Material safe Substances Act | on occupational ex julation on categori e catalog and list of | posure limit va ies, types and f hazardous wa | alues aste, | | | | |
| 15.2. | Chemical | safety assessmer | nt | | | | | | | |
| | None | | | | | | | | | |

| SECTIO | TION 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 us 1272/2008 (CLP) | sed to derive the classification for mixture according to Regulation (EC) | | | | |
| Classifi | cation | Classification procedure | | | | |
| - | - | | | | | |
| 16.5. | Relevant H statements (numbe | r and full text) | | | | |
| | H: | | | | | |
| 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: | SODIUM METABISULFITE, LEUKOGNOST | | | | |
|---------------|----------------------------------|----------------|-------------|----------|---|
| Product code: | NMLKG-OT-X** | Revision date: | 21 Dec 2022 | Version: | 2 |

| SECTI | ON 1: Identification of t | he substance | e/mixture a | and of the company/undertaking | | |
|-------|---------------------------|----------------------------------|---|---------------------------------|--|--|
| 1.1. | Product identifier | | | | | |
| | Trading name: | SODIUM METABISULFITE, LEUKOGNOST | | | | |
| | Chemical name: | - | | | | |
| | Catalogue number: | NMLKG-OT | NMLKG-OT-X** | | | |
| 1.2. | Relevant identified use | s of the subs | tance or m | ixture and uses advised against | | |
| | Uses: | | For use w | ith special staining kits. | | |
| | Uses advised against: | | Only the | identified uses are advised. | | |
| | Reason why uses advis | ed 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: Bic | | lioGnost Ltd. | | | |
| | Address: | M | Medjugorska 59, Zagreb | | | |
| | Telephone number: | +3 | 385 1 2409997 | | | |
| | Fax no.: | +3 | +385 1 2404039 | | | |
| | e-mail of competent p | erson: <u>m</u> | msds@biognost.hr | | | |
| | National contact: | - | - | | | |
| 1.4. | Emergency telephone | Emergency telephone number | | | | |
| | National Protection an | d Rescue Dir | 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 Regula | ation (EC) No 1272/20 | 08 (CLP) | | | |
| | Hazard class and cated | gory code: | Hazard statements*: | | | |
| | Eye Dam. 1 | | H318 | | | |
| | | | EUH031 | | | |
| 2.1.2. | Additional information | | | | | |
| | - | | | | | |
| *For full | text of Hazard- and EU Hazard-sta | atements: see Section | 16 | | | |
| 2.2. | Label elements | | | | | |
| | Product identification: | SODIUM METABISUL | .FITE, LEUKOGNOST | | | |
| | Identification number: | - | | | | |
| | Authorization no.: | - | | | | |



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| Trading name: | SODIUM METABISULFITE, LEUKOGNOST | | | | | |
|---------------|----------------------------------|----------------|-------------|----------|---|--|
| Product code: | NMLKG-OT-X** | Revision date: | 21 Dec 2022 | Version: | 2 | |

| | Hazard pictograms: | GHS05 |
|------|---|--|
| | Signal word: | Warning |
| | Hazard statements: | H318 Causes serious eye damage. EUH031 Contact with acids liberates toxic gas. |
| | Precautionary statements: | P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Immediately call a POISON CENTER or physician. |
| | Supplemetal hazard information (EU): | - |
| 2.3. | Other hazards | |
| | Endocrine Disrupting Propert No known endocrine disrupting Results of PBT and vPvB asse 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) | | | | |
| 7681-57-4/ 231-673-0/ 016-063-00-2 | - | 22 - 25 % | sodium metabisulfite | Acute Tox. 4, H302 Eye Dam. 1; H318 EUH031 | | | | |

| SECTI | SECTION 4. First aid measures | | | | | |
|-------|--------------------------------|---|--|--|--|--|
| 4.1. | Description of first aid measu | ures | | | | |
| | General notes: | Take off contaminated clothing. | | | | |
| | Following inhalation: | Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice. | | | | |
| | Following skin contact: | Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice. | | | | |



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| Trading name: | SODIUM METABISULFITE, LEUKOGNOST | | | | |
|---------------|----------------------------------|----------------|-------------|----------|---|
| Product code: | NMLKG-OT-X** | Revision date: | 21 Dec 2022 | Version: | 2 |

| | Following eye contact: Following ingestion: | | In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. | | |
|------|--|------|--|--|--|
| | | | Rinse mouth. Call a doctor if you feel unwell. | | |
| | | | Treat symptomatically. | | |
| 4.2. | Most important symptoms and effects, both acute and delayed | | | | |
| | Following inhalation: | No i | nformation available | | |
| | Following skin contact: | No i | nformation available | | |
| | Following eye contact: | Risk | c of blindness, Risk of serious damage to eyes. | | |
| | Following ingestion: | No i | nformation available | | |
| 4.3. | Indication of any immediate medical attention and special treatment needed | | | | |
| | - | | | | |

| SECTIO | SECTION 5. Firefighting measures | | | | |
|--------|---|---|--|--|--|
| 5.1. | Extinguishing media | | | | |
| | Suitable extinguishing media: | Small fire - water spray, dry powder, foam, 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 | | | | |
| | Do not enter fire area without pro | oper protective equipment, including respiratory protection. | | | |
| 5.4. | Additional information | | | | |
| | Remove sources of heat and ignit | ion. | | | |
| | Do not contaminate the environm | nent with extinguishing media. | | | |

| SECTIO | SECTION 6. Accidental release measures | | | | | |
|--------|--|--|--|--|--|--|
| 6.1. | Personal precautions, protective e | 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. Remove all sources of sparks and ignition. Do not smoke. | | | | |
| | Emergency procedures: | Mark the area using proper signs. | | | | |
| 6.1.2. | For emergency responders: | | | | | |
| | Do not enter fire area without pro | oper protective equipment, including respiratory protection. | | | | |



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| Trading name: | S | SODIUM METABISULFITE, LEUKOGNOST | | | | | |
|---------------|--------------|----------------------------------|-------------|----------|---|--|--|
| Product code: | NMLKG-OT-X** | Revision date: | 21 Dec 2022 | Version: | 2 | | |

| 6.2. | Environmental 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 co | ntainment and cleaning up | | | | | | |
| 6.3.1. | Bunding, covering of drains, Take up mechanically. | | | | | | | |
| 6.3.2. | Cleaning up: | Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers. 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: | Place in appropriate containers for disposal. | | | | | | |
| 6.4. | Reference to other sections | | | | | | | |
| | See Section 7 for information See Section 8 for information See Section 13 for information | n about personal protective equipment. | | | | | | |

| SECTIO | DN 7. Handling and 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 generat | ion: | 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. T | horough | ly wash hands after work and before eating. | | | | |
| 7.2. | Conditions for safe storage, including any inco | mpatibili | ties | | | | |
| | Technical measures and storage conditions: | | tightly closed and upright set containers in a well ed place. | | | | |
| | Packaging materials: | Manufa | cturer's original packaging. | | | | |
| | Requirements for storage rooms and vessels: | | vay from food and drink. Keep the containers closed. | | | | |
| | Advices for storage equipment: | tightly closed. The storage must be made of hard material; floors be resistant to chemicals. There must be no drain t directly leads into sewage system. Secure proper ventilation. | | | | | |



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| Trading | name: | SODIUM METABISULFITE, LEUKOGNOST | | | | | | | | |
|---------|---------------------------------------|--|--------|----------|--|---------------------|------|--|--|--|
| Product | code: | NMLKG-OT-X** | Revisi | on date: | 21 Dec 2022 | Version: | 2 | | | |
| | Further in | Further information on storage conditions: | | | place the unused mate not use empty contair ls. Do not store with i 9). | ners for storing of | her: | | | |
| 7.3. | Specific end use(s) | | | | | | | | | |
| | Recomme | endations: | | - | | | | | | |
| | Industrial sector specific solutions: | | | | | | | | | |

| SECTION 8. Expos | ure contr | ols/persona | al protec | tion | | | | |
|-----------------------|------------|--------------------|-----------|----------------------|--------------------------|-------------------------------------|---------|----------------------------|
| 8.1. Control p | arameters | ; | | | | | | |
| Substance | | CASI | No | • | | ll exposure limit rt term values | Bic | logical limit values |
| | | | | ppm | | mg/m ³ | | - |
| - | | - | | - | | - | No info | ormation available |
| | | | | | | | | |
| Substance _ name: | | | | | | | | |
| EC No: - | | CAS No: | - | | | | | |
| DNEL | | | | | | | | |
| | | | | Industr | rial | | | |
| Route of | | Acute | | Acute | | Chronic | | Chronic |
| exposure: | effe | ect local | effe | ct systemic | : | effect local | | effect systemic |
| Oral | - | | - | | | - | - | |
| Inhalation | - | | - | | | - | - | |
| Dermal | - | | - | | | - | - | |
| Critical physical par | ameters: | solubility, fla | mmabilit | ty, corrosiv | vity: | - | | |
| | | | | Consun | ner | | | |
| Route of exposure: | | Acute ect local | | Acute ct systemic | : | Chronic effect local | | Chronic effect systemic |
| Oral | - | | - | | | - | - | |
| Inhalation | - | | - | | | - | - | |
| Dermal | - | | - | | | - | - | |
| PNEC | | | | | | | | |
| Environmental prot | ection tai | rget | | PN | EC | | | |
| Fresh water | | | | No | infor | mation available | | |
| Freshwater sedime | nts | | | No | No information available | | | |
| Marine water | | | | No | infor | mation available | | |



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| | | | | | | Page 6 d | | | | |
|---|---|------------------------------|--|--|---|---|--|--|--|--|
| name: | | S | ODIUM METABISULFITE, LEUKOGNOST | | | | | | | |
| code: | NMLKG-OT-X** | | Revisio | n date: | 21 Dec 2022 | Version: | 2 | | | |
| diments | | | | No infori | mation available | | | | | |
| Food chain | | | | | mation available | | | | | |
| Microorganisms in sewage treatment | | | | | mation available | | | | | |
| Soil (agricultural) | | | | | mation available | | | | | |
| Air | | | | | mation available | | | | | |
| Exposi | ure controls | | | | | | | | | |
| · · · | | | | | | | | | | |
| Substa measu | ance/mixture related res to prevent expo | | • | | | • • | otective | | | |
| | Structural measures to prevent exposure: | | | nation ava | ailable | | | | | |
| - | Organisational measures to prevent exposure: | | | Organization of work in order to reduce other worker's influence during work process. | | | | | | |
| | • | - | | | Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. | | | | | |
| Persor | nal protection equip | ment | | | | | | | | |
| Eye an | d face protection: | | Safety gla visor. | isses that | stick to face (preventi | ng splashing) (EN | l 166) or | | | |
| Skin p | rotection | | | | | | | | | |
| Hand | protection: | Chem 374. | mical protection gloves are suitable, which are tested according to EN Glove material: nitrile rubber Glove thickness: > 0.11 mm Break through time: >480 min | | | | | | | |
| Other | skin protection: | | ar antistatic clothing made of natural fibers (such as cotton) with long ves (EN 13034), and shoes that cover the entire foot (EN 10335). | | | | | | | |
| Respir | atory protection: | In cas | se of inadeo | quate ven | tilation wear respirato | ry protection. | | | | |
| Therm | al hazards: | No in | formation a | ormation available | | | | | | |
| Enviro | nmental exposure c | ontrols | 5 | | | | | | | |
| Substance/mixture related measures to prevent exposure: | | | See Section 6 | | | | | | | |
| | | event | Use modern equipment. | | | | | | | |
| - | | to | | Adapt the work process to the required working conditions of the workplace. Keep away from drains, surface and ground water. | | | | | | |
| | · · · | event | See Section | e Section 6 | | | | | | |
| r | inisms in ultural) Expose Expose Engine Substa measu during Structe expose Organ prever Eye an Skin p Eye an Skin p Gresor Eye an Skin p Crgan prever Skin p Skin p Skin p | code: NMLKG-OT-X** diments | code:NMLKG-OT-X**diments | code:NMLKG-OT-X**RevisiondimentsImage: Second | inde: NMLKG-OT-X** Revision date: diments No inform n No inform n No inform n No inform No information ava No information available Environmental exposure: No information available Environmental exposure: See Section 6 Structural measures to prevent No information available Environmental exposure: See Section 6 No information available Environmental exposure: No information available Environmental exposure: See Section 6 Structural measures to prevent No information available Environmental exposure: No information available Environmental exposure: See Section 6 No information available Environmental exposure: No information available Environmental exposure: No information available Environmental exposure: No information available Environmental exposure: See Section 6 Structural measures to prevent No information exposure: No information exposure: No information available Environmental exposure: See Section 6 Structural measures to prevent No information exposure: No informatio | code: NMLKG-OT-X** Revision date: 21 Dec 2022 diments No information available No information available nisms in sewage treatment No information available ultural) No information available Engineering measures No information available Substance/mixture related measures to prevent exposure Use the product in well ventilated rooms equipment. Do not eat, drink or smoke in order to reduce during work process. Structural measures to prevent exposure: Organization of work in order to reduce during work process. Technical measures to prevent exposure: Safety glasses that stick to face (preventi visor. Skin protection Safety glasses that stick to face (preventi visor. Skin protection: Chemical protection gloves are suitable, which is 374. Hand protection: In case of inadequate ventilation wear respirato Other skin protection: In case of inadequate ventilation wear respirato Substance/mixture related measures to prevent exposure: No information available Other skin protection: In case of inadequate ventilation wear respirato Substance/mixture related measures to prevent exposure: No information available Chemical protection: In case of inadequate ventilation wear respirato Th | Barme: SODIUM METABISULFITE, LEUKOGNOST code: NMLKG-OT-X** Revision date: 21 Dec 2022 Version: diments No information available No information available No information available niments No information available No information available No information available altural) No information available No information available No information available Engineering measures Substance/mixture related measures to prevent exposure during identified uses: Use the product in well ventilated rooms. Use personal previous exposure: Organisational measures to prevent exposure: Organization of work in order to reduce other worker's in during work process. Personal protection equipment Escure proper workspace ventilation in order to keep con levels in air below permitted levels. Personal protection: Safety glasses that stick to face (preventing splashing) (EN visor. Skin protection: Chemical protection gloves are suitable, which are tested accord 374. Hand protection: Wear antistatic clothing made of natural fibers (such as cotton) v sleeves (EN 13034), and shoes that cover the entire foot (EN 103 Respiratory protection: Information available Environmental exposure: See Section 6 | | | |



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| Trading name: | | SODIUM METABISULFITE, LEUKOGNOST | | | | | | |
|---------------|--------------|----------------------------------|-------------|----------|---|--|--|--|
| Product code: | NMLKG-OT-X** | Revision date: | 21 Dec 2022 | Version: | 2 | | | |

| 1. | Information on basic physical and che | mical properties | |
|----|---|---|--------------------------|
| | | Value | Method |
| | Physical state: | liquid | No information available |
| | Color: | colourless | 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 |
| | Lover 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 |
| | Relative vapour density: | No information available | No information available |
| | Particle characteristics: | No information available | No information available |

| SECTIC | 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. | | | | |



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| Trading name: | | SODIUM METABISULFITE, LEUKOGNOST | | | | | | |
|---------------|--------------|----------------------------------|-------------|----------|---|--|--|--|
| Product code: | NMLKG-OT-X** | Revision date: | 21 Dec 2022 | Version: | 2 | | | |

| 11.1. Information | on on hazard classes as d | lefined in Regulatio | on (EC) No 12 | 72/2008 | |
|------------------------------------|-----------------------------|----------------------|---|------------|---------------------------|
| Acute tox | icity: | | | | |
| Route of exposure: | Method | Species | Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture} | time | Recitite |
| Oral exposure: | No information available | - | LD ₅₀ | - | - |
| Dermal exposure: | No information | | LD ₅₀ | - | - |
| Inhalation exposure: | No information available | - | LC ₅₀ | - | - |
| | | | | | |
| Specific ta | arget organ toxicity – sing | gle exposure (STOT | SE): | | 1 |
| | Specifi | c effects | Targ | et organ | Note |
| Oral exposure: No information avai | | ailable | ble No information available | | - |
| Dermal exposure: | No information av | ailable | ilable No informatio available | | - |
| Inhalation exposure | e: No information av | ailable | No information available | | - |
| Respirato | ry irritation: | No information | available | | |
| | | | | | |
| Irritation a | and corrosion | | | | |
| | Exposure time | Species | Evaluati on | Meth od | Note |
| Skin irritation: | - | - | - | - | |
| Eye irritation: | - | - | - | - (| Causes serious eye damage |
| Sensitizat | ion | | | | |
| Dermal exposure: | No information availab | le | | | |
| • | | le | | | |



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| | | | | | | | Page 9 d | |
|------------------------|------------|-----------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------|----------|------|
| Trading name: | | | SOD | IUM METABI | SULFITE, LEUKO | OGNOST | | |
| Product code: | ٩ | NMLKG-OT-X** | | Revision date: | 21 Dec 2022 | | Version: | 2 |
| | | | | | | | | |
| Oral exposure: | | No informati | | | | | | |
| Dermal exposure | | No informati | | | | | | |
| Inhalation expos | ure: | No informati | | | | | | |
| Eye exposure: | | Causes serio | us eye dama | ge | | | | |
| Depert | | | | ronic chronic) | | | | |
| кереат | ea ac | se toxicity (sur | | nronic, chronic) | | | | |
| | | Dose | Exposure time | Species | Method | Evaluatio | on | Note |
| Subacute oral | | information ilable | No informatior available | No information available | No information available | No infor available | | - |
| Subacute dermal | | information ilable | No informatior available | No information available | No information available | No information available | | - |
| Subacute inhalation | | information ilable | No informatior available | No information available | No information available | No information available | | - |
| Subchronic oral | No avai | information ilable | No informatior available | No information available | No information available | No information available | | - |
| Subchronic dermal | | information ilable | No informatior available | No information available | No information available | No infor available | | - |
| Subchronic inhalation | | information ilable | No informatior available | No information available | No information available | No infor available | | - |
| Chronic oral | | information ilable | No informatior available | No information available | No information available | No infor available | | - |
| Chronic dermal | | information ilable | No informatior available | No information available | No information available | No infor available | | - |
| Chronic inhalation | | information ilable | No informatior available | No information available | No information available | No infor available | | - |
| | | | | | | | | |
| Specific | targ | et organ toxici | ty – repeated | l exposure (STO | T RE): | | | |
| | | | Specific effe | | Target or | gan | <u> </u> | lote |
| Subacute oral | | No informa | ation availabl | e | No information a | available | - | |
| Subacute derma | I | No informa | ation availabl | e | No information a | available | - | |



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| Trading r | name: | SODIUM METABISULFITE, LEUKOGNOST | | | | | | | |
|-----------------------|--------------------------------|---|--------------------------|--------------------------|------------|--|--|--|--|
| Product | code: | NMLKG-OT-X** | Revision date: | 21 Dec 2022 | Version: 2 | | | | |
| | | | | | | | | | |
| Subacute | inhalation | No information av | vailable | No information available | - | | | | |
| Subchron | ic oral | No information av | vailable | No information available | - | | | | |
| Subchron | ic dermal | No information av | vailable | No information available | - | | | | |
| Subchron | ic inhalatio | n No information av | vailable | No information available | - | | | | |
| Chronic oral | | No information av | vailable | No information available | - | | | | |
| Chronic dermal No inf | | No information av | vailable | No information available | - | | | | |
| Chronic in | halation | No information av | vailable | No information available | - | | | | |
| | | | | | | | | | |
| (| CMR effect | s (carcinogenicity, mut | agenicity, reproductiv | e toxicity) | | | | | |
| (| Carcinogen | icity: | No information av | vailable | | | | | |
| 1 | Mutagenicity <i>in-vitro</i> : | | No information av | No information available | | | | | |
| (| Genotoxicit | iy: | No information available | | | | | | |
| 1 | Mutagenici | ty in-vivo: | No information available | | | | | | |
| (| Germ cell n | nutagenicity: | No information available | | | | | | |
| F | Reproducti | ve toxicity: | No information available | | | | | | |
| | | | È | | | | | | |
| 5 | Summary o | f evaluation of the CM | R properties: | _ | | | | | |
| | | | | L | | | | | |
| 11.2. I | Informatior | n on other hazards: | | | | | | | |
| 11.2.1. E | Endocrine d | disrupting properties: | | | | | | | |
| | No know properties t | n endocrine disru that affect human heal | ipting th. | | | | | | |
| 11.2.2. (| Other infor | mations: | | | | | | | |
| - | - | | | | | | | | |

| SECTION 12. Ecological information | | | | | | | | | |
|------------------------------------|------------------|------------------|--------------------------|--------------------------|--------------------------|------|--|--|--|
| 12.1. Toxicity | | | | | | | | | |
| Acute (short-term) 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 | 8 days | No information available | No information available | No information available | - | | | |
| Microorganisms | LC ₅₀ | 72 hours | - | - | _ | - | | | |



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| Trading name: | | SODIUM METABISULFITE, LEUKOGNOST | | | | | | | | |
|---------------|--------------|----------------------------------|-------------|----------|---|--|--|--|--|--|
| Product code: | NMLKG-OT-X** | Revision date: | 21 Dec 2022 | Version: | 2 | | | | | |

| 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 | - | - | microorganisms | No information available | No information available | - |

| 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 | - |

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

12.3. Bioaccumulative potential

| | Partition | coefficient: | n-octanol | /water (lo | g Kow): |
|--|-----------|--------------|-----------|------------|---------|
|--|-----------|--------------|-----------|------------|---------|

| Value | Concentration | рН | °C | Method | Evaluation | Note | | | | |
|-------|-------------------------------|------|----|--------------------------|--------------------------|------|--|--|--|--|
| - | No information available | _ | - | No information available | No information available | - | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Ы | Bioconcentration factor (BCF) | | | | | | | | | |
| Value | e Spe | cies | | Method | Evaluation | Note | | | | |



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| Trading | g name | : | | | S | ODIUN | 1 ΜΕΤΑΒΙ | SULFITE, I | EUKO | GNOST | | | |
|---|------------------------|------------------|--------------------------------|-------------------|------------------------------------|------------------------------------|-------------------------------|-----------------|-----------------------------|-----------------------------|---------|----|------|
| Produc | t code | : N | MLKC | G-OT-X** | | Revis | ion date: | 21 Dec | 2022 | | Versior | ר: | 2 |
| | | | | | | 1 | | 1 | | | 8 | | 4 |
| No infor available | | | No information available | | No info availab | ormation le | n No information available | | | No information available | | on | |
| | | | | | | | | | | | | | |
| | Chror | nic ecoto | oxicity | , | | | | | | | | | |
| | Value Lose | | | osure me | Species | Meth | od | E١ | valuation | | Note | | |
| Chronic toxicity on fish LC ₅₀ | | LC ₅₀ | No information available | | No informat ion available | No inform available | ation | No in availa | formation ble | | - | | |
| Chronic toxicity on crustacea (<i>Daphnia</i>) | | | EC ₅₀ | No information | | No informat ion available | No inform available | ation | No information available | | - | | |
| | | | | | | | | | | | | | |
| 12.4. | Mobi | lity in sc | soil | | | | | | | | | | |
| | Know | n or pre | edicted | d distributi | on in e | environm | nental comp | partments: | | | | | |
| | No in | formatio | on ava | ailable | | | | | | | | | |
| | Surfac | ce tensio | on: | | | | | | | | | | |
| | Va | lue | | °C | | Conce | entration | n Method | | | No | te | |
| | No inforn availa | nation ble | No information available | | No information available | | No information available | | - | | | | |
| | | | | | | | | | | | | | |
| | Adsor | rption / | desor | ption | | | | | | | | | |
| Transpo | ort | | coeffi /'s cor | cient nstant | lo | g Kow | Evapoi | ation rate | М | ethod | | Ν | lote |
| Soil-wat | Δr | lo Ivailable | | ormation | No in availa | formatic ble | on No info availab | ormation le | No inf availat | ormatic ole | n - | | |
| Water-a | ir i | vo Ivailable | | ormation | No in availa | formatic ble | on No info availab | ormation le | No inf availat | ormatic ole | n - | | |
| Soil-air | | lo Ivailable | | ormation | No in availa | formatic ble | on No info availab | ormation le | No inf availat | ormatic ole | n - | | |
| | | | | | | | | | | | | | |
| 12.5. | Resul | ts of PB | T and | vPvB asse | ssment | | | | | | | | |



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| Pag | | | | | | | | | | |
|---------|--|--|--------------------------|-------------------------|-----------------|-----------|--|--|--|--|
| Trading | j name: | | SODIUM METABIS | SULFITE, LEUKOGN | OST | | | | | |
| Product | t code: | NMLKG-OT-X** | Revision date: | 21 Dec 2022 | Version: | 2 | | | | |
| | | | | | | | | | | |
| | No inforr | nation available | | | | | | | | |
| 12.6. | Endocrin | e disrupting properties | | | | | | | | |
| 12.0. | | n endocrine disrupting p | roperties that affect th | e environment | | | | | | |
| | | | | | | | | | | |
| 12.7. | Other adv | verse effects | | | | | | | | |
| | No adver | se effects are expected. | | | | | | | | |
| | | | | | | | | | | |
| SECTIO | N 13. Disp | osal considerations | | | | | | | | |
| 13.1. | Waste t | reatment methods | | | | | | | | |
| 12.1.1 | . | | | | | | | | | |
| 13.1.1. | | /Packaging disposal: | arcan authorized by | the Ministry of Enviror | montal and Natu | r0 | | | | |
| | Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection. | | | | | | | | | |
| | : | | | | | | | | | |
| 13.1.2. | Waste c | odes/waste designations | according to Law: | | | | | | | |
| | No info | rmation available | | | | | | | | |
| | | | | | | | | | | |
| 13.1.3. | | reatment – relevant infor | mation: | | | | | | | |
| | No info | rmation available | | | | | | | | |
| 13.1.4. | Sowage | disposal – relevant infor | mation: | | | | | | | |
| 13.1.4. | | nust not be disposed of i | | n. | | | | | | |
| | | | | | | | | | | |
| 13.1.5. | Other d | isposal recommendation | s: | | | | | | | |
| | | dispose of the product's | | | | | | | | |
| | | zed by the ministry in cha kaging to the collectors a | | | | | | | | |
| | | may occur. | athonzed by the mini | stry in charge. Do not | | Les where | | | | |
| 13.1.6. | Relevan | t Community provisions: | | | | | | | | |
| | - | | | | | | | | | |
| | | | | | | | | | | |
| SECTIO | | sport information | | | | | | | | |
| | | ting/shipment by road (A | | | | | | | | |
| UN num | | | Not subject to transpo | ort regulations. | | | | | | |
| UN prop | per shippin | g name: | - | | | | | | | |



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| Trading name: | SODIUM METABISULFITE, LEUKOGNOST | | | | | | |
|----------------------------|----------------------------------|-------|-----------------------|---------------|------|----------|---|
| Product code: | NMLKG-OT-X** | | Revision date: | 21 Dec 2 | 2022 | Version: | 2 |
| | · | | | | | | |
| Transport hazard cl | ass(es): | - | | | | | |
| Packing group: | | - | | | | | |
| Environmentally hazardous: | | - | | | | | |
| Special precautions | for user: | - | | | | | |
| Transport | ing/shipment by rail (R | ID) | | | | | |
| UN number: | | Not | t subject to transpo | ort regulatio | ons. | | |
| UN proper shipping | g name: | - | | | | | |
| Transport hazard cl | ass(es): | - | | | | | |
| Packing group: | | - | | | | | |
| Environmentally ha | zardous: | - | | | | | |
| Special precautions | s for user: | - | | | | | |
| Inland wa | terway transport (ADN |) | | | | | |
| UN number: | | | t subject to transpo | ort regulatio | ons. | | |
| UN proper shipping name: | | | | | | | |
| Transport hazard cl | ass(es): | - | | | | | |
| Packing group: | | - | | | | | |
| Environmentally ha | zardous: | - | | | | | |
| Special precautions | for user: | - | | | | | |
| Transport | ing/shipment by sea (l | MDG |) | | | | |
| UN number: | | Not | t subject to transpo | ort regulatio | ons. | | |
| UN proper shipping | g name: | - | | | | | |
| Transport hazard cl | ass(es): | - | | | | | |
| Packing group: | | - | | | | | |
| Environmentally ha | zardous: | - | | | | | |
| Special precautions | s for user: | - | | | | | |
| Transport | ing/shipment by air (IC | AO-1 | TI/IATA-DGR) | | | | |
| UN number: | | Not | t subject to transpo | ort regulatio | ons. | | |
| UN proper shipping | g name: | - | | | | | |
| Transport hazard cl | ass(es): | - | | | | | |
| Packing group: | | - | | | | | |
| Environmentally ha | zardous: | - | | | | | |
| Special precautions | s for user: | - | | | | | |
| | | | | | | | |
| Further information | n: The product is | not s | subject to classifica | ition. | | | |



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| Trading name: | SODIUM METABISULFITE, LEUKOGNOST | | | | | |
|---------------|----------------------------------|----------------|-------------|----------|---|--|
| Product code: | NMLKG-OT-X** | Revision date: | 21 Dec 2022 | Version: | 2 | |

| 15.1. | Safety, health and environmental 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 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 | ig name: | | S | ODIUM METABIS | ULFITE, LEUKOGN | IOST | |
|----------|-------------------------|------------------------------|------------------------------|---|--|--|--|
| Produ | ct code: | NMLKG-OT-X** | | Revision date: | 21 Dec 2022 | Version: | 2 |
| 16.2. | Abbreviat | ions and acronyms | : | dangereuses par rou Carriage of Dangerou IMDG: International M IATA: International M GHS: Globally H Chemicals EINECS: European Inv CAS: Chemical M Society) DNEL: Derived No-E LC50: Lethal concert LD50: Lethal dose, PBT: Persistent, Bi | Maritime Code for Dang Air Transport Association armonised System of ventory of Existing Com Abstracts Service (divis Effect Level (UK REACH) ntration, 50 percent | nt Concerning the l lerous Goods n Classification and mercial Chemical Su ion of the America c | International Labelling of ubstances |
| 16.3. | Key litera source of | ture references and data: | nd _ | | | | |
| 16.4. | Classificat 1272/200 | • | used to | o derive the classifica | ation for mixture acco | ording to Regulation | on (EC) |
| Classifi | cation | | Classif | ication procedure | | | |
| - | | | - | | | | |
| 16.5. | Relevant | H statements (num | ber and | full text) | | | |
| | 302 | | Harmf | ul if swallowed. | | | |
| | H: 318 | | Causes | s serious eye damag | e. | | |
| | EUH |)31 | Conta | ct with acids liberate | s toxic gas. | | |
| 16.6. | Training a | advice: | - | | | | |
| 16.7. | Further in | formation: | the pro We are instruc | oduct) e not responsible for | marks different volun consequences in cas roper use of the prod | e of failure to cor | nply with |

ANNEX: Exposure scenario resulting to Chemical safety assessment



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| Trading name: | HCL REAGENT, LEUKOGNOST PAS | | | | |
|---------------|-----------------------------|----------------------|------------------|----------|---|
| Product code: | HCLLP-OT-X** | Date of compilation: | 21 December 2022 | Version: | 2 |

| 1.1 | Product identifier | | | | | |
|-----|--|---|--|----------------------------------|--|--|
| | Trading name: HCL REAGE | | NS, LEUKO | DGNOST PAS | | |
| | Chemical name: | - | | | | |
| | Catalogue number: HCLLP-OT-> | | X** | | | |
| 1.2 | Relevant identified us | Relevant identified uses of the substan | | nixture and uses advised against | | |
| | Uses: | Uses: | | with special staining kits. | | |
| | 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: | Supplier: | | BioGnost Ltd. | | |
| | Address: | | Medjugorska 59, Zagreb | | | |
| | Telephone number: | | +385 1 2409997 | | | |
| | Telefax.: | | +385 1 2404039 | | | |
| | e-mail of competent p | person: | msds@biognost.hr | | | |
| | National contact: | | - | | | |
| 1.4 | Emergency telephone | Emergency telephone number | | | | |
| | National Protection ar | nd Rescue Dire | 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 Regulation (EC) No 1272/2008 (CLP) | | | | |
| | Hazard class and catego | ory code: | | Hazard statements*: | |
| | Skin Corr. 1A | | H314 | | |
| | STOT SE 3 | | H335 | | |
| 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: | HCL REAGENT, | LEUKOGNOST PAS | | |
| | Identification number: | - | | | |
| | Authorization number: | - | | | |



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| | Hazard pictograms: | GHS05 GHS07 |
|-----|---|---|
| | Signal word: | Danger |
| | Hazard statements: | H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation. |
| | Precautionary statements: | P280 Wear protective gloves/protective clothing/eye/protection/face protection. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340+P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P313 IF exposed or concerned: Get medical advice/attention. |
| | Supplemetal hazard information (EU): | - |
| 2.3 | Other hazards | |
| | Endocrine Disrupting Propertie No known endocrine disrupting | |

| 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) | | | | |
| 7647-01-0/ 231-595-7/ 017-002-00-2 | 01-2119484862-27- xxxx | 22 - 25 % | hydrochloric acid, 37% | Skin Corr. 1A; H314 STOT SE 3; H335 | | | | |

| 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. | | |
| | 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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| | Following skin contact: | 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 effects, 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 medical attention and special treatment needed | | |

| 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 compressed air breathing apparatus and fireproof clothing. | | |
| 5.4 | Additional information | | |
| | Cool endangered receptacles with water spray. Collect contaminated fire fighting water separately. Do contaminate the environment with extinguishing media. | | |

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



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| 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, c Protection and Rescue Directo | Irainage 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 information. | | | | |

| SECTIO | ON 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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| | 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. Expe | osur | re contro | ols/perso | onal pr | rotect | tion | | | | | |
|---------------------|------|-----------|------------|---------|---------------------|-----------|---------------------|------|----------------------|---|-------------------------|
| 8.1 Control | para | ameters | | | | | | | | | |
| Substan | ce | | CA | S No | | • | ational es/short | • | sure limit values | | Biological limit values |
| | | | | | | рр | m | n | ng/m³ | | |
| Hydrogen chloric | le | | 764 | 7-01-0 | | 5/1 | 10 | | 8/15 | - | |
| | | | | | | | | | | | |
| Substance name: | | - | | | | | | | | | |
| EC No: | | - | CAS No |): | - | | | | | | |
| DNEL | | | | | | | | • | | | |
| | | | | | | Indus | strial | | | | |
| Route of | | Acu | ıte | | Acute | e | | Ch | ironic | | Chronic |
| exposure: | | effect | local | effe | ct sys [.] | temic | | effe | ct local | | effect systemic |
| Oral | - | | | - | | | - | | | | - |
| Inhalation | - | - | | - | | | - | | | | - |
| Dermal | - | | | - | | | - | | | | - |
| Critical physical p | arar | meters: s | olubility, | flamm | ability | y, corros | sivity: | | - | | |
| | | | | | | Cons | umer | | | | |



8.2.2.

8.2.2.1.

8.2.2.2.

Eye and face protection:

Skin protection

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

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| Route of exposure | | Acute effect local | Acute effect systemi | Chronic c effect local | Chronic effect systemic | |
|----------------------|-----------------------|---|-------------------------|---|---|--|
| Oral | | - | - | - | - | |
| Inhalatio | n | - | - | - | - | |
| Dermal | | - | - | - | - | |
| PNEC | | | | | | |
| Environm | nental protec | ction target | | PNEC | | |
| Fresh wa | ter | | | no information availabl | e | |
| Freshwat | er sediments | S | | no information availabl | e | |
| Marine w | /ater | | | no information availabl | e | |
| Marine s | ediments | | | no information available | | |
| Food cha | ain | | | no information available | | |
| Microorg | janisms in se | wage treatment | | no information available | | |
| Soil (agri | cultural) | | | no information availabl | e | |
| Air | | | | no information availabl | e | |
| 8.2 | Exposure | e controls | | | | |
| 8.2.1. | Appropr | iate engineering o | controls | | | |
| | | ce/mixture relatec exposure during i | | - | ventilated rooms. Use personal Do not eat, drink or smoke in the | |
| | Structura exposure | al measures to pre e: | event | In accordance with Sect | tion 7. | |
| | Organisa exposure | ational measures 1 e: | o prevent | Organization of work in order to reduce other worker's influence during work process. | | |
| | | | | | | |

| Technical measures to prevent exposure: | Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering. |
|---|--|
| Personal protection equipment | |
| Safety | glasses that stick to face (EN 166) or visor in case of lower |

levels of concentration in air; protective gas mask that covers the

entire face in case of higher levels of concentration in air.



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| | Hand protection: | The protective gloves have to satisfy the specification of Regulation (EU) 2016/425 and the related standard EN 374. Glove material: nitrile rubber Glove thickness: 0.40 mm Time until perforation: > 480 min |
|----------|---|---|
| | Other skin protection: | During everyday work use cotton clothing (EN 340) and suitable footwear, such as rubber boots (EN 20345) or shoes that cover the entire foot. In case of spilling hazard, use clothing made of impermeable material suitable for protection from liquid chemicals (Viton, PVC, himex) and footwear made from the same material. |
| 8.2.2.3. | Respiratory protection: | Protective full face mask (EN 136) or half mask (EN 140) equipped with a filter for organic vapors, type "A" (boiling point >65°C) acording to EN 14387) used when concentration levels exceed GVI. |
| 8.2.2.4. | Thermal hazards: | No information available |
| 8.2.3. | Environmental exposure controls | |
| | Substance/mixture related measures to prevent exposure: | See Section 6 |
| | 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 |

| 9.1 | Information on basic physical and | Information on basic physical and chemical properties | | | | | |
|-----|---|---|--------------------------|--|--|--|--|
| | | Value | Method | | | | |
| | Physical state: | liquid | No information available | | | | |
| | Color: | colourless | No information available | | | | |
| | Odour/odour threshold: | hydrochloric acid/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 | | | | |
| | Lover 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 | | | | |



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| .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: | 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 (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. | | | | | |

| SECTIO | ON 11. To> | cicological information | I | | | | | | | |
|-----------------------|------------|--------------------------------|----------------|--|---------------|---------|--|--|--|--|
| 11.1 | Informat | ation on toxicological effects | | | | | | | | |
| | Acute to | xicity: | | | | | | | | |
| Route of exposure: | | Method | Species | Dose LD ₅₀ /LC ₅₀ or ATE _{mix} | Exposure time | Results | | | | |
| Oral: | | No information available | - | No information available | - | - | | | | |
| Dermal: | | No information available | - | No information available | - | - | | | | |
| Inhalation: | | No information available | - | No information available | - | - | | | | |
| | | | | | | | | | | |
| | Specific | target organ toxicity – s | ingle exposure | (STOT SE): | | | | | | |
| | | Specific e | ffects | Target organ | n | Note | | | | |
| Oral: | | No information avai | lable | No information available - | | | | | | |
| Dermal | : | No information avai | lable | No information avail | | | | | | |



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| 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 target | organ toxicity - repeated exposure (S | fot re): | |
|-----------------------|---------------------------------------|--------------------------|------|
| | 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 | - |

| | Carcinogenicity: | Base | ed on available data, the classification criteria are not met. | | | |
|---------|--|---|---|--|--|--|
| | Mutagenicity in vitro: | Base | ed on available data, the classification criteria are not met. | | | |
| | Genotoxicity: | Based on available data, the classification criteria are not met. | | | | |
| | Mutagenicity in vivo: | Based on available data, the classification criteria are not met.Based on available data, the classification criteria are not met.Based on available data, the classification criteria are not met. | | | | |
| | Germ cell mutagenicity: | | | | | |
| | Reproductive toxicity: | | | | | |
| | Summary of evaluation of the properties: | | Based on available data, the classification criteria are not met. | | | |
| 11.2 | Information on other hazards: | | | | | |
| 11.2.1. | Endocrine disrupting properties: | | | | | |



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| · · · · | | | | | | | | | |

| | No known endocrine disrupting properties that affect human health. |
|---------|--|
| 11.2.2. | Other informations: |
| | - |

| SECTION 12. E | cologi | cal informat | ion | | | | | |
|---------------------------------|---------|------------------|------------------|-----------------------------|--------------------------------|--------------------------------|--------------------------------|------|
| 12.1 Toxicit | y | | | | | | | |
| Acute (short-te toxicity | rm) | Dose | Exposure time | Species | Method | Eva | luation | Note |
| Fish | | LC ₅₀ | 96 hours | No information available | No information available | No inform availal | | - |
| Crustacea: | | EC ₅₀ | 48 hours | No information available | No information available | No inform availal | | - |
| Algae/aquatic plants | | IC ₅₀ | 4 days | No information available | No information available | | lo nformation - vailable | |
| Other organism | าร | - | - | - | - | - | | - |
| Chronic (long-term) toxicity | | Dose | Exposure time | Species | Method | Eva | luation | 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 organism | าร | - | - | - | - | - | | - |
| | | | | | | | | |
| | | nd degradab | ility | | | | | |
| Abioti | c degra | | | | 1 | | | |
| | De | gradation ha | lf-lives | Method | Evaluatio | Evaluation | | Note |
| Marine water | No ir | nformation a | | No information available | No information | | - | |
| Fresh water | No ir | nformation a | | No information available | No information available | n | - | |



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|---|--------------------------|--|-----------------------------|--|--|--|--|--|--|
| | | | HCL | REAGENT, L | EUKOGN | OST PAS | | | |
| HCLLP-OT-X** | | Date | e of compilati | on: 21 | Decembe | r 2022 | Version: | 2 | |
| No inforn | In information available | | | | No informa available | ation | _ | | |
| No inforn | nation avail | able | | | No informa available | ation | - | | |
| radation | | | | | | | | | |
| | Time (days | ;) | N | Nethod | Evalu | ation | | Note | |
| No | inforn | | | | No informa available | ation | | | |
| | | | | | | | | | |
| ımulative p | ootential | | - | | | | 1 | | |
| l-water par | rtition coeff | icient (| log Kow | () | | | | | |
| Concentra | tion p | »Н | °C Method | | Evaluation | | | Note | |
| centration | factor (BCF) |) | | | | | | | |
| | | - | | Method | Eval | uation | | Note | |
| No availat | information | | No information available | | No information available | | - | | |
| | | | | | | | | | |
| | Dose | | | Species | Metho | d Evalı | uation | Note | |
| on fish | LC ₅₀ | | | No information available | No informati available | | | - | |
| Chronic toxicity on crustacea (<i>Daphnia</i>) | | No information available | | No information | No informati | No on inform | nation | _ | |
| | HCLLI | HCLLP-OT-X** No information availation No information availation No information inform available No inform available I-water partition coeff Concentration factor (BCF) Concentration factor (BCF) Species No inform available Cecotoxicity Dose | | HCLLP-OT-X** Date No information available No information available No information available No information available No information available No information available radation Time (days) No No information available No information available No information available No information available No information available No information available Imulative potential I I I I-water partition coefficient (log Kow Concentration pH °C I I-water partition factor (BCF) I I Species No information available No information available No information factor (BCF) Species I Imulative potential I I I-water partition factor (BCF) I I Imulation available Information available I Imulation available I I Imulation avail | HCLLP-OT-X** Date of compilation No information available No information available No information available No information available No information available No information available radation Time (days) Method No information available No information available No information available No information available Immulative potential No information available No information available Immulative potential | HCLLP-OT-X** Date of compilation: 21 No information available No information available No information available No information available No information available No information available No information available No information available radation Time (days) Method Evalue 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 numulative potential No No No No level pH °C Method Evalue level species Method Evalue No informa | HCLLP-OT-X** Date of compilation: 21 December 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 inform | HCL REAGENT, LEUKOGNOST PAS HCLIP-OT-X** Date of compilation: 21 December 2022 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 - Immulative potential No information available No information available No information available No information available Invaliable No information available No information available No information available No information available Immulative potential Immulative potential Immulative potential Immulative potential Immulative potential I-water partition coefficient (log Kow) P °C Method Evaluation Immulative potential Immulative potential Immulative potential Immulative potential Immulative potential I-water partition coefficient (log Kow) P °C Method Evaluation Immulative potential I-water partition factor (BCF) Immulative potential Immulative potential Immulative potential Immulative potential <td< td=""><td>HCL REAGENT, LEUKOGNOST PAS HCLLP-OT-X** Date of compilation: 21 December 2022 Version: No information available No information available No information available - - No information available No information available No information available - - - Information available No information available No information available - - - radation 1 Time (days) Method Evaluation Note No information available - - - - - - - - - - - -</td></td<> | HCL REAGENT, LEUKOGNOST PAS HCLLP-OT-X** Date of compilation: 21 December 2022 Version: No information available No information available No information available - - No information available No information available No information available - - - Information available No information available No information available - - - radation 1 Time (days) Method Evaluation Note No information available - - - - - - - - - - - - |

Known or predicted distribution in environmental compartments:



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| | No | informatio | No information available | | | | | |
|----------|--|---------------------------|--------------------------------|-----------------------------|-----------------------------|------------------------|------------|-----------|
| | Surf | face tensio | on: | | | | | |
| | , | Value | °C | Concentratio | n Metł | nod | | Note |
| | | rmation ilable | No information available | No informatior available | n No informati available | on | - | |
| | | | | | | | | |
| | Ads | orption / | desorption | | | | | |
| Transpo | ort | - | coefficient y's constant | log Kow | Evaporation rate | Meth | od | Note |
| Soil-wa | ter | No available | information | No information available | No information available | No inforn available | nation | - |
| Water-a | air | No available | information | No information available | No information available | No inforn available | nation | - |
| Soil-air | | No available | information | No information available | No information available | No inforn available | nation | - |
| | _ | | | | | | | |
| 12.5. | | | and vPvB asses | ssment | | | | |
| | NOT | applicabl | е. | | | | | |
| 12.6. | End | ocrine dis | rupting properti | es | | | | |
| | | | | ng properties that | affect the environ | ment. | | |
| | : | | | | | | | |
| 12.7. | Oth | er adverse | e effects | | | | | |
| | No further relevant information available. | | | | | | | |
| | | | | | | | | |
| | | | l consideration | S | | | | |
| 13.1 | W | aste treat | ment methods | | | | | |
| 13.1.1. | Pr | roduct/Pac | kaging disposa | : | | | | |
| | | ubmit for o rotection. | disposal to the l | egal person autho | rized by the Minis | try of Enviror | nmental ar | nd Nature |
| | | | | | | | | |



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| | 15 01 10*: Packaging that contains residual hazardous substances or is contaminated with hazardous substances | | | | |
|--------------------------|---|---|--|--|--|
| 13.1.3. | Waste treatment – releva | ant information: | | | |
| | No information available | | | | |
| 13.1.4. | Sewage disposal – releva | int information: | | | |
| | | osed of into the sewage system. | | | |
| 13.1.5. | Other disposal recomme | ndations: | | | |
| 13.1.3. | Do not dispose of the pr authorized by the minist | 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 lectors 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 informati | on | | | |
| | Transporting/shipment by | | | | |
| UN num | | 1789 | | | |
| UN proper shipping name: | | Hydrochloric acid, solution | | | |
| Transpo | rt hazard class(es): | 8 | | | |
| Packing | group: | II | | | |
| Environr | mentally hazardous: | - | | | |
| Special | precautions for user: | - | | | |
| | Transporting/shipment by | rail (RID) | | | |
| UN num | ıber: | 1789 | | | |
| UN prop | per shipping name: | Hydrochloric acid, solution | | | |
| Transpo | rt hazard class(es): | 8 | | | |
| Packing | group: | II | | | |
| Environr | mentally hazardous: | - | | | |
| Special _I | precautions for user: | - | | | |
| | Inland waterway transport | (ADN) | | | |
| UN num | ıber: | 1789 | | | |
| UN prop | per shipping name: | Hydrochloric acid, solution | | | |
| Transpo | rt hazard class(es): | 8 | | | |
| Packing | group: | II | | | |



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| Environmentally hazardous: | - |
|---|-----------------------------|
| Special precautions for user: | - |
| Transporting/shipment by sea (IN | MDG) |
| UN number: | 1789 |
| UN proper shipping name: | Hydrochloric acid, solution |
| Transport hazard class(es): | 8 |
| Packing group: | Ш |
| 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: | 1789 |
| UN proper shipping name: | Hydrochloric acid, solution |
| Transport hazard class(es): | 8 |
| Packing group: | П |
| Environmentally hazardous: | - |
| Special precautions for user: | - |
| | |
| Further information: - | |

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



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| | 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) | /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 | |

| SECTIO | SECTION 16. Other information | | |
|----------------|---|---|---|
| 16.1 | Indication of changes: | - | |
| 16.2 | Abbreviations and acronyms: | PBT vPvB LD ₅₀ LC ₅₀ TCOJ | Stable, bioaccumulative and toxic Strongly stable and strongly bioaccumulative. Lethal dose, 50% Lethal concentration, 50% Specific target organ toxicity - single exposure |
| 16.3. | Key literature references and source of data: | - | |
| 16.4. | 16.4. Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP) | | |
| Classification | | Classification prod | cedure |
| - | | _ | |
| 16.5. | Relevant H statements (numbe | er and full text) | |



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| | H: 314 335 | Causes severe skin burns and eye damage. May cause respiratory irritation. |
|-------|----------------------|---|
| 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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| 1.1 | Product identifier | | | | | |
|-----|---------------------------------------|--|--|----------------------------------|--|--|
| | Trading name: | BIOSCHIFF | FORTE RE | AGENT | | |
| | Chemical name: | - | | | | |
| | Catalogue number: | BSF-OT-X** | | | | |
| 1.2 | Relevant identified us | es of the subs | stance or i | mixture and uses advised against | | |
| | Uses: | | For use | with special staining kits. | | |
| | 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 | 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 | person: | msds@biognost.hr | | | |
| | National contact: | | - | | | |
| 1.4 | Emergency telephone number | | | | | |
| | National Protection a Directorate: | nd Rescue | | 112 | | |
| | Medical information: | | | +385 1 2348 342 | | |
| | Other information: | | | - | | |

| SECTIO | SECTION 2. Hazards identification | | | | | |
|-----------|-----------------------------------|---------------------|----------------|---------------------|--|--|
| 2.1 | Classification of the substance | e or mixture | | | | |
| 2.1.1 | Classification according to Re | egulation (EC) No 1 | 272/2008 (CLP) | | | |
| | Hazard class and cate | gory code: | | Hazard statements*: | | |
| | Carc. 1B | | H350 | | | |
| | - | | EUH031 | | | |
| 2.1.2. | Additional information | | | | | |
| | - | | | | | |
| *For full | text of Hazard- and EU Hazard | l-statements: see S | SECTION 16 | | | |
| 2.2 | Label elements | | | | | |
| | Product identification: | BIOSCHIFF FOR | TE REAGENT | | | |
| | Identification number: | - | | | | |



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| | Authorization number: | - |
|-----|---|--|
| | Hazard pictograms: | GHS08 |
| | Signal word: | Danger |
| | Hazard statements: | H350 May cause cancer. EUH031 Contact with acids liberates toxic gas. |
| | Precautionary statements: | P201 Obtain special instructions before use. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P405 Store locked up. P501 Dispose of contents/container in accordance with local regulations. |
| | Supplemetal hazard information (EU): | - |
| 2.3 | Other hazards | |
| | Endocrine Disrupting Prope | erties: |
| | No known endocrine disrupt | ing properties |
| | Results of PBT and vPvB as PBT or a vPvB. | sessment: According to the results of its assessment, this substance is not a |

| SECTION 3. Con | 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) | | | | |
| 569-61-9/ 209-321-2/ 611-031-00-X | _ | 10 -13 % | 4,4'-(4-iminocyclohexa- 2,5-dienylidenemethylene) dianiline hydrochloride | Carc. 1B; H350 | | | | |
| 7681-57-4/ 231-673-0/ 016-063-00-2 | - | 1 – 3 % | sodium metabisulfite | Acute Tox. 4; H302 Eye Dam. 1; H318 EUH031 | | | | |
| 7647-01-0/ 231-595-7/ 017-002-01-X | - | 0.7 – 1 % | hydrochloric acid, 36.5% | Skin Corr. 1B; H314 Acute Tox. 3; H331 | | | | |

| SECTIO | SECTION 4. First aid measures | | | | |
|--------|-----------------------------------|--|--|--|--|
| 4.1 | Description of first aid measures | | | | |



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| | 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. |
| | 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 oral cavity, drink 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 | ffects, 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 | 1 II | ical 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 jet | | | |
| 5.2 | Special hazards arising from the substance or mixture | | | | |
| | Hazardous combustion products: | Sulfur oxides. | | | |
| 5.3 | Advice for firefighters | | | | |
| | Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing. | | | | |
| 5.4 | Additional information | | | | |



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Do not contaminate the environment with extinguishing media.

| | ON 6. Accidental release measu | | | |
|--------|---|--|--|--|
| 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. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke. | | |
| | Emergency procedures: | Mark the area using proper signs. | | |
| 6.1.2. | For emergency responders: | | | |
| | Use protective equipment; in a (see Section 8). | case of inadequate ventilation use adequate airways protective equipment | | |
| 6.2 | Environmental precautions: | | | |
| | Do not dispose of in sewage, o Protection and Rescue Directo | drainage system and waterways. In case of large spillage contact National rate (NPRD) on 112. | | |
| 6.3 | Methods and material for cont | tainment and cleaning up | | |
| 6.3.1. | Bunding, covering of drains; capping procedures: | Sand or clay barriers. | | |
| 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: | Do not use incompatible materials (see Section 10). | | |
| 6.4 | Reference to other sections | | | |
| | See Section 7 for information | See Section 7 for information on safe handling. | | |
| | See Section 8 for information | See Section 8 for information on personal protective equipment. | | |
| | See Section 13 for disposal information. | | | |

| SECTIO | SECTION 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. | | | |
| | Measures to prevent aerosol and dust generation: | Secure proper ventilation. | | | |
| | Measures to protect the environment: | Prevent spilling into the sewage system and waterways. | | | |



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| | Other measures: | - | | |
|--------|--|---|--|--|
| 7.1.2. | Advice on general occupational hygiene: | | | |
| | Do not eat, drink or smoke in the workspace. T | horoughly wash hands after work and before eating. | | |
| 7.2 | Conditions for safe storage, including any incor | 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. | | |
| | Packaging materials: | Manufacturer's original packaging. Avoid metal containers. | | |
| | 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. Exposure controls/personal protection | | | | | | | |
|--|-----------|---------|-----------------|------------|--|------|-----------------------|
| 8.1 Control p | arameters | | | | | | |
| Substance | | CAS No | | | Occupational exposure limit values/short term values | | ological limit values |
| | | | | ppm | mg/m ³ | | - |
| sodium metabisulf | ite | 7681-57 | 7-4 | -/- | 5/- | No i | nformation available |
| | | | | | | | |
| Substance name: | - | - | | | | | |
| EC No: | - | CAS No | : - | | | | |
| DNEL | | | | | | | |
| | | | | Industrial | | | |
| Route of | Αςι | ute | | Acute | Chronic | 2 | Chronic |
| exposure: | effect | local | effect systemic | | effect loc | al | effect systemic |
| Oral | - | | - | | - | | - |
| Inhalation | - | | - | | - | | - |



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| Dermal | | - | - | | - | - | |
|----------------------|-------------|--|-----------------|--|---|-----------------|--|
| Critical pl | hysical pai | rameters: solubility, | flammability, o | corrosivity | - | | |
| | | | | Consumer | | | |
| Route of | | Acute | Acut | - | Chronic | Chronic | |
| exposure | 2: | effect local | effect sys | temic | effect local | effect systemic | |
| Oral | | - | - | | - | - | |
| Inhalatior | า | - | - | | - | - | |
| Dermal | | - | - | | - | - | |
| PNEC | | | | - | | | |
| Environm | ental prot | tection target | | PNEC | | | |
| Fresh wat | ter | | | No info | ormation available | | |
| Freshwate | er sedime | nts | | No info | ormation available | | |
| Marine w | ater | | | No info | ormation available | | |
| Marine se | ediments | | | No info | ormation available | | |
| Food cha | in | | | No info | ormation available | | |
| Microorg | anisms in | sewage treatment | | No info | No information available | | |
| Soil (agrio | cultural) | | | No info | No information available | | |
| Air | | | | No info | No information available | | |
| | | | | | | | |
| | | | | | | | |
| 8.2 | | ure controls | | | | | |
| 8.2.1. | Appro | priate engineering | controls | 1 | | | |
| | | ance/mixture related nt exposure during i | | 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: | | | In accordance with Section 7. | | |
| | - | Organisational measures to prevent exposure: | | | Organization of work in order to reduce other worker's influence during work process. | | |
| | Techni | echnical measures to prevent exposure: | | Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering. | | | |
| 8.2.2. | Persor | nal protection equip | oment | | | | |
| | | Eye and face protection: Safety levels | | ty glasses that stick to face (EN 166) or visor in case of lower is of concentration in air; protective gas mask that covers the re face in case of higher levels of concentration in air. | | | |
| 8.2.2.1. | Eye an | d face protection: | | | - | - | |
| 8.2.2.1. 8.2.2.2. | - | d face protection: rotection | | | - | - | |



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| | Other skin protection: | Wear antistatic clothing made of natural fibers (such as cotton) with long sleeves (EN 340) and shoes that cover the entire foot. | | | |
|----------|---|--|--|--|--|
| 8.2.2.3. | Respiratory protection: | Suitable mask (EN 136) or half mask (EN 140) equipped with a combined "A1 + Form" filter (EN 143) used when concentration levels exceed GVI. | | | |
| 8.2.2.4. | Thermal hazards: | No information available | | | |
| 8.2.3. | Environmental exposure controls | | | | |
| | Substance/mixture related measures to prevent exposure: | See Section 6 | | | |
| | 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 and chemical properties | | | | | |
|----|---|--------------------------------|--------------------------|--|--|--|
| | | Value | Method | | | |
| | Physical state: | liquid | No information available | | | |
| | Colour: | colourless | No information available | | | |
| | Odour/odour threshold: | sharp/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 | | | |
| | Lover 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: | 1.2 – 1.6 | 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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| Tradin | g name: | | BIOSCHIFF FORTE | REAGENT | | |
|--------|--------------------------|-----------------|--------------------------|----------------|-----------|---|
| Produc | ct code: | BSF-OT-X** | Date of compilation: | 06 Dec 2023 | Version: | 4 |
| | | | | | | |
| | Relative vapour density: | | No information available | No information | available | |
| | Particle c | haracteristics: | No information available | No information | available | |
| 9.2 | Other inf | ormation | | | | |
| | - | | | | | |

| SECTIO | SECTION 10. Stability and reactivity | | | |
|--------|--------------------------------------|--|--|--|
| 10.1 | Reactivity: | No information available | | |
| 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: | Strong oxidants (acids). | | |
| 10.6 | Hazardous decomposition products: | Sulfur dioxide, sodium oxide. | | |

| 11.1 Inform | nation on toxicolo | gical effects | | | |
|--------------------|-------------------------------|---|--|---------------|---|
| | toxicity: | gical circets | | | |
| Route of exposure: | Method | Species | Dose LD ₅₀ /LC ₅₀ or ATE _{mix} | Exposure time | Results |
| Oral: | OECD Test Guideline 401 | rat (sodium metabisulphite) mouse (C.I. Basic Red 9) | LD ₅₀ | - | 1.540 mg/kg (sodium metabisulphite) 5.000 mg/kg (C.I. Basic Red 9) |
| Dermal: | OECD Test Guideline 402 | rat | No information available | - | >2.000 mg/kg (sodium metabisulphite) |
| Inhalation: | OECD Test Guideline 403 | rat | No information available | 4h | >5.5 mg/l (sodium metabisulphite) |
| C | * | | | | · · · · |
| Specif | | xicity – single expos | | | Note |
| | | pecific effects | Target o | | Note |
| Oral: | No informat | ion available | No information a | vailable - | |
| Dermal: | No informat | ion available | No information a | vailable - | |
| Inhalation: | No informat | ion available | No information a | vailable - | |



| | | amended | by Regulati | on (EU) | No. 202 | 0/878 | Page 9 d | of 17 |
|----------------------------------|--|--------------------------------|--------------------------------|----------------------|----------------|-----------------------|---------------------------------|-------------|
| Trading name: | | | BIOSCHIFF | FORTE | REAGEN | т | | |
| Product code: | BSF-OT-X** | Da | Date of compilation: 00 | | 06 Dec | 2023 | Versio | n: 4 |
| Aspira | tion hazard: | No in | formation ava | ailable. | | | | |
| Irritati | on and corrosion | | | | | | | |
| | Exposure | e time S | Species | Evalua | tion | Method | ٨ | lote |
| Skin corrosion/irritat | Skin corrosion/irritation: 4h | | t (sodium bisulphite) | - | | - | no skin ir | ritation |
| Serious eye damage/irritation | | rabbi | t | - | - | - | causes se damage metabisu | |
| Sensiti | zation | | | | | | | |
| Skin sensitizatio | Í | nformation avail | able | | | | | |
| Respiratory sens | | formation avail | | | | | | |
| | | | | | | | | |
| Sympt | oms related to the | physical, chemi | cal and toxico | ological ch | aracterist | ics | | |
| Oral exposure: | May cause gastro of concentration | | • | • | odominal | pains and | cramps; hi | gher levels |
| Dermal exposure: | May cause skin ir | ritation. | | | | | | |
| Inhalation exposure: | May cause respira when used by ser gastrointestinal in | nsitive persons b | - | | | • | | |
| Eye exposure: | May cause eye irr | itation. | | | | | | |
| | | | | | | | | |
| Repea | ted dose toxicity (s | ubacute, subchr | onic, chronic) |) | | | | |
| | Dose | Exposure time | Species | Meth | nod | Evaluati | on | Note |
| Subacute oral | No information available | No information available | No information available | No infor avail | mation able | No infor available | | - |
| Subacute dermal | No information available | No information available | No information available | No infor avail | mation able | No infor available | | - |
| Subacute inhalation | No information available | No information available | No information available | No infor avail | mation able | No infor available | | - |

No

information

available

No information

available

Subchronic oral

No

information

available

No

information

available

No information

available

_



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| Trading name: | BIOSCHIFF FORTE REAGENT | | | | | | | | |
|---------------|-------------------------|----------------------|-------------|----------|---|--|--|--|--|
| Product code: | BSF-OT-X** | Date of compilation: | 06 Dec 2023 | Version: | 4 | | | | |

| 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 targe | t organ toxicity – repeated exposu | re (STOT RE): | |
|-----------------------|------------------------------------|--------------------------|------|
| | 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 | - |

| Carcinogenicity: | Contains a component that has been reported to probably carcinogenic. Possible human carcinogen. | | | |
|-------------------------|--|--|--|--|
| Mutagenicity in vitro: | No information available | | | |
| Genotoxicity: | No information available | | | |
| Mutagenicity in vivo: | No information available | | | |
| Germ cell mutagenicity: | No information available | | | |
| Reproductive toxicity: | No information available | | | |



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| Trading | g name: | | B | OSCHIFF FORTE | REAGENT | | |
|---------|-----------------------|--|----------|------------------|-------------|----------|---|
| Produc | uct code: BSF-OT-X** | | Date | of compilation: | 06 Dec 2023 | Version: | 4 |
| | Summary properties | | e CMR | No information a | vailable | | |
| 11.2 | Informatio | on on other hazards: | | | | | |
| 11.2.1. | Endocrine | e disrupting properties: | | | | | |
| | | n endocrine disrupting pr t human health. | operties | | | | |
| 11.2.2. | Other info | ormations: | | | | | |

| SECTION 12. Ed 12.1 Toxici | | | | | | |
|--------------------------------------|------------------|------------------|--|-----------------------------|--|------|
| Acute (short- term) toxicity | Dose | Exposure time | Species | Method | Evaluation | Note |
| Fish | LC ₅₀ | 96 hours | Golden orfe (sodium metabisulphite) Mosquito fish (hydrochloric acid) | No information available | 316 mg/l (sodium metabisulphite) 282 mg/l (hydrochloric acid) | - |
| Crustacea: | EC ₅₀ | 48 hours | Daphnia magna (sodium metabisulphite) | No information available | 89 mg/l (sodium metabisulphite) | - |
| Algae/aquatic plants | IC ₅₀ | 4 days | Green algae (sodium metabisulphite) | No information available | 43.8 mg/l (sodium metabisulphite) | - |
| 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 | - |
| 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 | - | - | - | - | - | - |



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|---------------|-------------------------|----------------------|-------------|----------|---|--|--|--|
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| | Der | gradation hal | f-lives | Ma | ethod | F۱ | aluation | | | Note | | |
|--|--|---|------------------------------|-------------------------|----------------------------------|--------------------------|---------------------|-----------------------|---|------|---|--|
| Marine water | | formation av | | | ormation | No information available | | | - | | | |
| Fresh water | water No information available No information available | | ter No information available | | ation available | | ormation ble | No infor available | | | - | |
| Air | | | nation available | | ormation ble | No infor available | | | - | | | |
| Soil | No information available | | No infe availab | ormation ble | No infor available | | | - | | | | |
| Biode | egradatio | on | | | | | | | | | | |
| % Degradati | - | Time (da | ays) | Me | ethod | E۱ | aluation | | | Note | | |
| No information No information available | | | ormation | No infor available | mation | | No info availabl | rmation | | | | |
| | | tive potential | | (loa Kov | v) | | | | | | | |
| | nol-wate | tive potential er partition co ntration | | (log Kov °C | v) Metho | od | Evalua | ition | | Note | | |
| Octar | nol-wate | er partition co | pefficient pH | °C | | od - | | ition | - | Note | | |
| Octar Value | nol-wate Concer | er partition contration | pH | °C | Metho | | | ition | - | Note | | |
| Octar Value | nol-wate Concer | er partition co ntration | pefficient pH SCF) | •C | Metho | | | | | Note | | |
| Octar Value Bioco Value No informatior | oncentra | er partition contration | pefficient pH SCF) | °C - | Metho - Method ormation | | | on | | | | |
| Octar Value | oncentra | tion factor (E Species | pefficient pH SCF) | °C - I No info | Metho - Method ormation | | Evaluatic | on | | | | |
| Value - Bioco Value No informatior available | oncentra | er partition contration tion factor (E Species b info ailable | pefficient pH SCF) | °C - I No info | Metho - Method ormation | | Evaluatic | on | | | | |
| Value Bioco Value No informatior available | nol-wate Concer - oncentra n No av | er partition contration tion factor (E Species b info ailable | CF) | °C - I No info | Metho - Method ormation | No i avai | Evaluatic | on on | | | | |



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| Trading | ng name: BIOSCHIFF FORTE REAGENT | | | | | | | | | | | |
|----------|----------------------------------|--------------|------------------------------------|--------|------------------------------|------------------------|---------------------|------------------------|--------------------|---------------------------------|-----------|---|
| Product | t code: | BS | F-OT-X** | | Date | of co | mpilatio | on: | 06 Dec 2 | 2023 | Version: | 4 |
| | toxicity c a (<i>Daphr</i> | | EC50 | | rmation lable | No inforr availa | mation able | No inforn availa | nation ble | No informatio n available | | |
| 12.4 | Mobilit | y in so | il | | | | | | | | | |
| | Known | or pre | dicted distribut | ion ir | n environm | ental | compar | tments | : | | | |
| | No info | rmatic | on available | | | | | | | | | |
| | Surface | tensic | on: | | I | | | | | - | | |
| | Valu | Value °C | | | Concentratio Method | | od | | Note | | | |
| | No informa availab | | No informa available | ition | No informati available | | No inf availat | ormatio ble | on | - | | |
| | | | | | | | | | | | | |
| | Adsorp | | desorption | | | | | | | | | |
| Transpo | rt | - | coefficient 's constant | I | log Kow | E١ | /aporati | on rate | M | ethod | Note | |
| Soil-wat | er No av |) ailable | information | | informatio lable | | o inform ailable | ation | No info availab | ormation le | - | |
| Water-a | ir No av |) ailable | information | | informatio lable | | o inform ailable | ation | No info availab | ormation le | - | |
| Soil-air | No av |) ailable | information | | informatio lable | | o inform ailable | ation | No info availab | ormation le | - | |
| | 1 | | | | | | | | | | | |
| 12.5. | | - | and vPvB asse | | | _ | | | | | | |
| | Substar | nce(s) i | n the mixture c | lo(es) | not meet | the cr | iteria fo | r PBT o | r vPvB | | | |
| 12.6. | Endocri | ne dis | rupting propert | ies | | | | | | | | |
| 12.0. | | | e/mixture does | | ontain con | npone | ents con | sidered | l to have e | endocrine di | isruptina | |
| | propert | ies aco | cording to REAC Regulation (EU) | CH Ar | ticle 57(f) o | or Cor | nmissio | n Deleg | gated regu | | | |
| 12.7. | Other a | dverse | effects | | | | | | | | | |
| | | | on available | | | | | | | | | |
| | 1 | | | | | | | | | | | |
| SECTIO | N 13. Dis | posal | consideration | s | | | | | | | | |



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| 13.1 | Waste treatment methods | | | |
|-----------|---|--|--|--|
| | | | | |
| 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 designatio | | | |
| | Packaging that contains residu | al hazardous substances or is contaminated with hazardous substances | | |
| 13.1.3. | Waste treatment – relevant inf | ormation: | | |
| | No information available | | | |
| | | | | |
| 13.1.4. | Sewage disposal – relevant information: | | | |
| | Waste must not be disposed o | f into the sewage system. | | |
| | 4 | | | |
| 13.1.5. | Other disposal recommendation | ons: | | |
| | 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. | | | |
| 13.1.6. | Relevant Community provisions: | | | |
| | - | | | |
| | | | | |
| SECTION | 14. Transport information | | | |
| | Transporting/shipment by road | (ADR) | | |
| UN numb | per: | Not subject to transport regulations | | |
| UN prope | er shipping name: | - | | |
| Transport | t hazard class(es): | - | | |
| Packing g | jroup: | - | | |
| Environm | entally hazardous: | - | | |
| Special p | recautions for user: | - | | |
| | Transporting/shipment by rail (RID) | | | |
| UN numb | per: | Not subject to transport regulations | | |
| UN prope | er shipping name: | - | | |
| Transport | t hazard class(es): | - | | |
| Packing g | group: | - | | |
| Environm | Environmentally hazardous: - | | | |



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| 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 (I | MDG) | | | |
| UN number: | Not subject to transport regulations | | | |
| UN proper shipping name: | - | | | |
| Transport hazard class(es): | - | | | |
| Packing group: | - | | | |
| 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 | CAO-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: - | | | | |

| 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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| BIOSCHIFF FORTE REAGENT | | | | |
|-------------------------|----------------------|-------------|----------|---|
| F-OT-X** | Date of compilation: | 06 Dec 2023 | Version: | 4 |
| | -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 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 1999/13/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 assessment | t | |
| | None | | |

| SECTIC | 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: | - | | | |



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| 16.4. | Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP) | | | |
|----------------|---|--------|---|--|
| Classification | | | Classification procedure | |
| - | | | - | |
| 16.5. | Relevant H statements (nur | | nber and full text) | |
| | | 302 | Harmful if swallowed. | |
| | | 314 | Causes severe skin burns and eye damage | |
| | H: | 318 | Causes serious eye damage. | |
| | | 331 | Toxic if inhaled. | |
| | | 350 | May cause cancer. | |
| | | EUH031 | Contact with acids liberates toxic gas. | |
| 16.6. | Training advice: | | - | |
| | 16.7. Further information: | | ** "X" in the product code marks different volumes (different packagings 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