

M.I.F. KIT

The kit contains:

Lugol's solution, M.I.F. M.F. reagent



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| Trading name: | LUGOL'S SOLUTION, M.I.F. | | | | |
|---------------|--------------------------|----------------------|-------------|----------|---|
| Product code: | LUGM-OT-X** | Date of compilation: | 21 Dec 2022 | Version: | 4 |

| 1.1 | Product identifier | | | | | | |
|-----|--|--|--|----------------------------------|--|--|--|
| | Trading name: | LUGOL'S SC | LUGOL'S SOLUTION, M.I.F. | | | | |
| | Chemical name: | - | | | | | |
| | Catalogue number: | LUGM-OT-> | 〈 ** | | | | |
| 1.2 | Relevant identified uses of the substance or mixture and uses advise | | | nixture and uses advised against | | | |
| | Uses: | | For use | with M.I.F. kit. | | | |
| | Uses advised against: | | Only the | e 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 p | person: | msds@biognost.hr | | | | |
| | National contact: | | - | | | | |
| 1.4 | 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 Regi | ulation (EC) No 12 | 272/2008 (CLP) | | | |
| | Hazard class and catego | ory code: | | Hazard statements*: | | |
| | Not identified as hazardous substance | | | | | |
| 2.1.2. | Additional information | | | | | |
| | - | | | | | |
| *For ful | l text of Hazard- and EU Hazard- | statements: see S | SECTION 16 | | | |
| 2.2 | Label elements | | | | | |
| | Product identification: | LUGOL'S SOLUT | fion, m.i.f. | | | |
| | Identification number: | - | | | | |
| | Authorization number: | - | | | | |
| | Hazard pictograms: | - | | | | |



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| | Signal word: | _ |
|-----|---|---|
| | Hazard statements: | - |
| | Precautionary statements: | - |
| | Supplemetal hazard information (EU): | - |
| 2.3 | Other hazards | |
| | Endocrine Disrupting Prope | erties: |
| | No known endocrine disrupti | ng 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. 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) | |
| - | - | - | Contains no hazardous substances | - | |

| SECTI | ON 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. |
| | Following skin contact: | Remove contaminated clothing. Immediately wash with plenty of water for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain. |
| | Following eye contact: | Rinse out with plenty of water with the eyelid held wide open for at least 20 minutes. If the symptoms remain, immediately call in ophthalmologist. |
| | Following ingestion: | Rinse the mouth thoroughly with 1-2 glasses of water. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital. |
| | Self-protection of the first aider: | - |
| 4.2 | Most important symptoms and eff | fects, both acute and delayed |
| | Following inhalation: | According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested. |



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| | | According to our findings | | | | | | |

| | Following skin contact: | properties of the substance have not been entirely tested. | | |
|-----|--|--|--|--|
| | Following eye contact: | According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested. | | |
| | Following ingestion: | According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested. | | |
| 4.3 | Indication of any immediate medical attention and special treatment needed | | | |
| | - | | | |

| SECTIO | SECTION 5. Firefighting measures | | | | | |
|--------|---|---|--|--|--|--|
| 5.1 | Extinguishing media | Extinguishing media | | | | |
| | Suitable extinguishing media: | water spray, dry powder, CO ₂ or alcohol resistant foam | | | | |
| | Unsuitable extinguishing media: | Water with full 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 c | compressed air breathing apparatus and fireproof clothing. | | | | |
| 5.4 | Additional information | | | | | |
| | J . | Cool endangered receptacles with water spray. Collect contaminated fire fighting water separately. Do not contaminate the environment with extinguishing media. | | | | |

| SECTIO | SECTION 6. Accidental release measures | | | | | |
|--------|---|---|--|--|--|--|
| 6.1 | Personal precautions, protective equipment and emergency procedures | | | | | |
| 6.1.1. | For non-emergency personnel | | | | | |
| | Protective equipment: Use personal protective equipment (see Section 8). | | | | | |
| | Accident prevention methods: Evacuate members of all non-essential personnel and those members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid con 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 | lrainage system and waterways. In case of large spillage contact National rate (NPRD) on 112. | | | | |
| 6.3 | Methods and material for cont | Methods and material for containment and cleaning up | | | | |
| 6.3.1. | Bunding, covering of drains; capping procedures: | Sand protective barrier or barriers made of similar materials. | | | | |



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| 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 | on safe handling. | | | |
| | See Section 8 for information on personal protection equipment. | | | | |
| | See Section 13 for disposal in | formation. | | | |

| 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: | | | | | |
| | Do not eat, drink or smoke in the workspace. Th | oroughly was | sh hands after work and before eating. | | | |
| 7.2 | Conditions for safe storage, including any incompatibilities | | | | | |
| | Technical measures and storage conditions: | well ventil | ghtly closed and upright set containers in a ated storage rooms at temperatures ranging 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 drai that directly leads into sewage system. Secure proper ventilation. | | | | |



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| | 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. Expos | ure contro | ols/perso | onal prote | ection | | | | |
|--|-------------|------------|------------|--------------------------|--------------------------|-------------------------------|-------|---------------------|
| 8.1 Control pa | arameters | | | | | | | |
| Substance | | CA | | | • | exposure limit term values | Biolo | ogical limit values |
| | | | | I | ppm | mg/m³ | | - |
| - | | | - | | - | - | - | |
| | ÷ | | | | | | | |
| Substance name: | - | 1 | | | | 1 | | |
| EC No: | - | CAS No | : - | | | | | |
| DNEL | | | | | | | | |
| | | | | Ind | lustrial | | | |
| Route of | Αςι | | Ac | ute | | Chronic | | Chronic |
| exposure: | effect | local | effect s | ystemic | : | effect local | | effect systemic |
| Oral | - | | - | | - | | - | |
| Inhalation | - | | - | | - | | - | |
| Dermal | - | | - | | | | - | |
| Critical physical part | rameters: s | olubility, | flammabi | | | - | | |
| | | | 1 | | nsumer | | | |
| Route of | | cute | Acute | | Chronic | | | Chronic |
| exposure: | effec | t local | effect s | systemic | ic effect local | | | effect systemic |
| Oral | - | | - | | - | | - | |
| Inhalation Dermal | - | | - | | - | - | | |
| PNEC | | | | | | | - | |
| | ection tar | not | | | PNEC | | | |
| Environmental protection target Fresh water | | | | no information available | | | | |
| Freshwater sediments | | | | | | | | |
| | 1115 | | | | no information available | | | |
| Marine water | | | | | no information available | | | |
| Marine sediments | | | | | no information available | | | |



| Trading name: Product code: LUG | | | LL | JGOL'S SOLUTIO | DN, M.I.F. | | | | |
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| Food cha | in | | | no information available | | | | | |
| Microorg | anisms ir | n sewage treatment | | no information a | vailable | | | | |
| Soil (agrio | cultural) | | | no information a | vailable | | | | |
| Air | | | | no information a | vailable | | | | |
| | | | | | | | | | |
| 8.2 | | sure controls | | | | | | | |
| 8.2.1. | Appro | opriate engineering contro | ols | 1 | | | | | |
| | Substance/mixture related measures to prevent exposure during identified uses: Structural measures to prevent exposure: | | | • | in well ventilated ro ment. Do not eat, dr | • | | | |
| | | | | In accordance wi | th Section 7. | | | | |
| | Orgai expos | nisational measures to pre sure: | Organization of work in order to reduce other worker's influence during work process. | | | | | | |
| | Technical measures to prevent exp | | 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. | Perso | nal protection equipment | | | | | | | |
| 8.2.2.1. | Eye a | nd face protection: | levels of | of concentration in | to face (EN 166) or visor in case of lower n air; protective gas mask that covers the gher levels of concentration in air. | | | | |
| 8.2.2.2. | Skin p | protection | | | | | | | |
| | 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 | r skin protection: | footwe entire imperr | ng everyday work use cotton clothing (EN 340) and suitabl vear, such as rubber boots (EN 20345) or shoes that cover e foot. In case of spilling hazard, use clothing made of rmeable material suitable for protection from liquid chem n, PVC, himex) and footwear made from the same materia | | | | | |
| 8.2.2.3. | Respi | ratory protection: | with a | filter for organic va | (EN 136) or half ma apors, type "A" (boil sed when concentra | ing point >65°C) | | | |
| 8.2.2.4. | Thern | nal hazards: | No info | formation available | | | | | |
| 8.2.3. | Enviro | onmental exposure contro | ols | | | | | | |
| | | ance/mixture related ures to prevent exposure: | See Se | ction 6 | | | | | |



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| | : | 1 | 1 | , ¹ | | | |

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

| Information on basic physical and | chemical properties | | |
|---|--|--------------------------|--|
| | Value | Method | |
| Physical state: | liquid | No information available | |
| Colour: | dark brown | No information available | |
| Odour/odour threshold: | characteristic/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 | |

| SECTION 10. Stability and reactivity | |
|--------------------------------------|------------------------------------|
| 10.1 Reactivity: | See subsections 10.3 through 10.5. |



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| 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 information available | | | | | |
| 10.4 | Conditions | Conditions to avoid: No information available | | | | | | |
| 10.5 | 5 Incompatible materials: | | No information available | | | | | |
| 10.6 | Hazardous | decomposition products: | No information available | | | | | |

| 11.1 Inform | oxicological informat nation on hazard classes | | n Regu | lation (EC) No 1 | 272/20 | 08 | | |
|----------------------------------|--|------------------|---------------------------|---|--------|-------------|----------|------|
| Acute | toxicity: | | | | | | | |
| Route of exposure: | Method | Species | Do | ose LD ₅₀ /LC ₅₀ or ATE _{mix} | E | xposure tir | time Res | |
| Oral: | No information available | - | | information lable | | - | | - |
| Dermal: | No information available | - | | information lable | | - | | - |
| Inhalation: | No information available | - | | information lable | | - | | - |
| | | | | | | | | |
| Specif | ic target organ toxicity | | sure (S | | | | | ••• |
| | Specific effects | | Target o | | - | | | Note |
| Oral: | No information a | | No information a | | | | | |
| Dermal: | No information a | | | No information available | | | - | |
| Inhalation: | No information a | nation available | | No information available | | | - | |
| Aspira | tion hazard: | Ν | No information available. | | | | | |
| Irritati | on and corrosion | | | | | | | |
| | Exposure | time | Speci | ies Evalua | ation | Method | | Note |
| Skin corrosion/irritation: | | - | | - | | - | - | |
| Serious eye damage/irritation | | - | | - | | - | - | |
| Sancit | ization | | | | | | | |
| Skin sensitizatio | | mation avail | able | | | | | |
| Respiratory ser | | | railable. | | | | | |



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| Oral exposure: | No informati | on available. | | | | |
|--------------------------|--------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|------|
| Dermal exposure | e: No informati | on available. | | | | |
| Inhalation expos | ure: No informati | on available. | | | | |
| Eye exposure: | No informati | on available. | | | | |
| | | | | | | |
| Repeate | ed dose toxicity (sub | acute, subchro | onic, chronic) | | | |
| | Dose | Exposure time | Species | Method | Evaluation | Note |
| Subacute oral | No information available | No information available | No information available | No information available | No information available | - |
| Subacute dermal | No information available | No information available | No information available | No information available | No information available | - |
| Subacute inhalation | No information available | No information available | No information available | No information available | No information available | - |
| Subchronic oral | No information available | No information available | No information available | No information available | No information available | - |
| Subchronic dermal | No information available | No information available | No information available | No information available | No information available | - |
| Subchronic inhalation | No information available | No information available | No information available | No information available | No information available | - |
| Chronic oral | No information available | No information available | No information available | No information available | No information available | - |
| Chronic dermal | No information available | No information available | No information available | No information available | No information available | - |
| Chronic inhalation | No information available | No information available | No information available | No information available | No information available | - |



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| Subacu | to oral | No information av | vailablo | No | information available | _ | |
| | te dermal | No information av | | | information available | - | |
| | te inhalation | No information av | | | information available | - | |
| | onic oral | No information av | | - | information available | _ | |
| | onic dermal | No information av | | | information available | _ | |
| | onic inhalatio | | | | information available | _ | |
| Chronic | | No information av | | | information available | _ | |
| | dermal | No information av | | | information available | - | |
| Chronic | inhalation | No information av | vailable | | information available | - | |
| | | | | | | | |
| | CMR effects | s (carcinogenicity; muta | agenicity; re | eproductive toxici | ty) | | |
| | Carcinogen | icity: | Ba | sed on available d | ata, the classification | criteria are not i | met. |
| | Mutagenici | ty in vitro: | Ba | sed on available d | ata, the classification | criteria are not i | met. |
| | Genotoxicit | y: | Ba | sed on available d | ata, the classification | criteria are not ı | met. |
| | Mutagenici | ty in vivo: | Ba | sed on available d | ata, the classification | criteria are not i | met. |
| | Germ cell m | nutagenicity: | Ba | sed on available d | ata, the classification | criteria are not i | met. |
| | Reproductiv | ve toxicity: | Ba | sed on available d | ata, the classification | criteria are not i | met. |
| | Summary properties: | of evaluation of t | he CMR | Based on availa met. | ble data, the classific | cation criteria a | re no [.] |
| 11.2 | Information | on other hazards: | | | | | |
| 11.2.1. | Endocrine c | lisrupting properties: | | | | | |
| | component disrupting Article 57(regulation | nce/mixture does no s considered to have properties according f) or Commission (EU) 2017/2100 or Co (EU) 2018/605 at levels | endocrine to REACH Delegated ommission | | | | |
| | | mations: | | 1 | | | |

| SECTION 12. Ecologie | cal informat | ion | | | | |
|--------------------------------|--------------|------------------|---------|--------|------------|------|
| 12.1 Toxicity | | | | | | |
| Acute (short-term) toxicity | Dose | Exposure time | Species | Method | Evaluation | Note |



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| 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 | 4 days | No information available | No information available | No information available | - |
| Other organisms | - | - | - | - | - | - |
| Chronic (long-term) toxicity | Dose | Exposure time | Species | Method | Evaluation | Note |
| | 1.6 | | No information | No | No | |
| Fish | LC ₅₀ | 96 hours | available | information available | information available | - |
| | EC ₅₀ | 48 hours | available No information available | | | - |
| Fish Crustacea: Algae/aquatic plants | | | No information | available No information | available No information | - |

| 12.2 | Persistence and degradability |
|------|-------------------------------|
|------|-------------------------------|

| | 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 | - |

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



| Trading name:LUGN-OT-X**Date of compilation:21 Dec 2022Version:4Product colspan="4">Octanor-Water partition coefficient (log Kow)ValueConcentrationpH°CMethodEvaluationNoteValueConcentrationpH°CMethodEvaluationNoteValueConcentration factor (BCF)No information availableNo information availableNo information availableNo information availableNo <information available<="" th="">NoNoNoValueSpeciesNoNoNoValueSpeciesNoNoNoNo information availableNoNoNoValueSpeciesNoNoNoValueSpeciesNoNoNoValueSpeciesNoNoNoValueSpeciesNoNoNoValueSpecies</information> |
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| availableavailableavailableavailableavailableavailableavailableavailableavailableavailable $ $ |
| ValueDoseExposure timeSpeciesMethodEvaluationNoteChronic toxicity on fishLC50No information availableNo information availableNo information availableNo information availableNo information availableNo information available |
| ValueDosetimeSpeciesMethodEvaluationNoteChronic toxicity on fishLC50NoNoNoNoNoInformation available- |
| Chronic toxicity on fishLC50No information availableNo information information available |
| Chronic toxicity on fish LC ₅₀ information information available information available information available |
| available available available available |
| |
| No No No |
| Chronic toxicity on EC ₅₀ information information information - |
| available available available available |
| |
| 12.4 Mobility in soil |
| Known or predicted distribution in environmental compartments: |
| No information available |
| Surface tension: |
| Value°CConcentrationMethodNote |
| No No No information No information |
| information information available available - |
| |
| |
| |



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| Trading name: | | LUGOL'S SOLUTIO | N, M.I.F. | | |
|---------------|-------------|----------------------|-------------|----------|---|
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| Transpo | A/D coefficient | | | | |
|--|--|--|--------------------------|--------------------------|------------|
| nanspo | rt Henry's constant | log Kow | Evaporation rate | Method | Note |
| Soil-wat | er No information available | No information available | No information available | No information available | - |
| Water-a | ir No information available | No information available | No information available | No information available | - |
| Soil-air | No information available | No information available | No information available | No information available | - |
| 12.5 | Results of PBT and vPvB ass | essment | | | |
| | The substance/mixture does according to REACH Article Regulation (EU) 2018/605 at | 57(f) or Commission | n Delegated regulat | | |
| 12.6. | Endocrine disrupting proper | ties | | | |
| | The substance/mixture does according to REACH Article Regulation (EU) 2018/605 at | 57(f) or Commission | n Delegated regulat | | |
| 12.7 | Other adverse effects | | | | |
| | Other adverse cheets | | | | |
| | No further relevant information | ion available. | | | |
| SECTIO | No further relevant information | | | | |
| | | ns | | | |
| 13.1 | No further relevant information No further relevant information N 13. Disposal consideration | ns | | | |
| 13.1 | No further relevant information N 13. Disposal consideratio Waste treatment methods | ns al: | rized by the Ministr | y of Environmental | and Nature |
| 13.1 | No further relevant information N 13. Disposal consideration Waste treatment methods Product/Packaging dispose Submit for disposal to the | ns al: legal person autho | | y of Environmental | and Nature |
| 13.1 | No further relevant information N 13. Disposal consideration Waste treatment methods Product/Packaging dispose Submit for disposal to the Protection. | ns al: legal person autho nations according to | o Law: | | |
| 13.1 13.1.1. 13.1.2. | No further relevant information N 13. Disposal consideration Waste treatment methods Product/Packaging dispose Submit for disposal to the Protection. Waste codes/waste design 15 01 10*: Packaging that | ns al: legal person autho nations according to contains residual h | o Law: | | |
| SECTIO 13.1 13.1.1. 13.1.2. 13.1.2. | No further relevant information N 13. Disposal consideration Waste treatment methods Product/Packaging dispose Submit for disposal to the Protection. Waste codes/waste design 15 01 10*: Packaging that substances | ns al: legal person autho nations according to contains residual h | o Law: | | |



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|--|-------------|--------------------------|--|----------------------|----------|---|--|--|--|
| Trading name: Product code: LUGM-OT-X | | | LUGOL'S SOLUTI | ON, M.I.F. | | | | | |
| | | LUGM-OT-X** | Date of compilation: | 21 Dec 2022 | Version: | 4 | | | |
| | Waste n | nust not be disposed (| of into the sewage system. | | | | | | |
| 13.1.5. | Other d | isposal recommendati | ons: | | | | | | |
| | authoriz | zed by the ministry in a | t's remains into the sewage sys charge. Do not dispose of the p rs authorized by the ministry in | ackaging into the se | | | | | |
| 13.1.6. | Relevan | t Community provisio | ns: | | | | | | |
| | Disposa | l must be made accor | ding to official regulations. | | | | | | |
| SECTION | J 14. Tran | sport information | | | | | | | |
| 1 | | ing/shipment by road | (ADR) | | | | | | |
| UN num | ber: | | Not subject to transport reg | ulations | | | | | |
| UN prop | er shippin | g name: | - | | | | | | |
| Transpor | t hazard c | lass(es): | - | | | | | | |
| Packing | group: | | - | | | | | | |
| Environn | nentally ha | azardous: | - | | | | | | |
| Special p | recaution | s for user: | - | | | | | | |
| | Transport | ing/shipment by rail (F | RID) | | | | | | |
| UN num | ber: | | Not subject to transport regulations | | | | | | |
| UN prop | er shippin | g name: | - | | | | | | |
| Transpor | t hazard c | lass(es): | - | | | | | | |
| Packing | group: | | - | | | | | | |
| Environn | nentally ha | azardous: | - | | | | | | |
| Special p | recaution | s for user: | - | | | | | | |
| | Inland wa | terway transport (ADN | I) | | | | | | |
| UN num | ber: | | Not subject to transport reg | ulations | | | | | |
| UN prop | er shippin | g name: | - | | | | | | |
| Transpor | t hazard c | lass(es): | - | | | | | | |
| Packing group: | | | - | | | | | | |
| Environmentally hazardous: | | azardous: | - | | | | | | |
| Special precautions for user: | | s for user: | - | | | | | | |
| | Transport | ing/shipment by sea (| MDG) | | | | | | |
| UN number: | | | Not subject to transport reg | ulations | | | | | |
| UN prop | er shippin | g name: | - | | | | | | |
| Transpor | t hazard c | lass(es): | - | | | | | | |
| Packing | aroup: | | - | | | | | | |



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| Trading name: | LUGOL'S SOLUTION, M.I.F. | | | | | |
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| 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: | 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 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 (EC) 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); | | | |



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| | National legislation: | Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act |
|------|----------------------------|--|
| 15.2 | Chemical safety assessment | |
| | 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: | - | | | | |
| 16.4. | Classification and procedure u 1272/2008 (CLP) | sed to derive the classification for mixture according to Regulation (EC) | | | | |
| Classifi | cation | Classification procedure | | | | |
| - | | - | | | | |
| 16.5. | Relevant H statements (numbe | er 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 nstructions 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: | | M.F. REAGEI | NT | | |
|---------------|-----------|----------------------|-------------|----------|---|
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| 1.1 | Product identifier | | | | | |
|-----|--|-------------------------------------|--|----------------------------------|--|--|
| | Trading name: M.F. REAGEI | | NT | | | |
| | Chemical name: | - | | | | |
| | Catalogue number: | MF-OT-X** | | | | |
| 1.2 | Relevant identified use | es of the subst | tance or m | nixture and uses advised against | | |
| | Uses: | | For use v | with M.I.F. kit. | | |
| | Uses advised against: | | Only the | e identified uses are advised. | | |
| | Reason why uses advised against: | | The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes. | | | |
| 1.3 | Details of the supplier of the safety data sheet | | | | | |
| | Supplier: | | BioGnost Ltd. | | | |
| | Address: | Address: | | Medjugorska 59, Zagreb | | |
| | Telephone number: | Telephone number: | | +385 1 2409997 | | |
| | Telefax.: | | +385 1 2404039 | | | |
| | e-mail of competent p | erson: | msds@biognost.hr | | | |
| | National contact: | | - | | | |
| 1.4 | Emergency telephone | Emergency telephone number | | | | |
| | National Protection ar | National Protection and Rescue Dire | | 112 | | |
| | Medical information: | | | +385 1 2348 342 | | |
| | Other information: | Other information: | | - | | |

| SECTIO | SECTION 2. Hazards identification | | | | | |
|----------|------------------------------------|--|---------------------|--|--|--|
| 2.1 | Classification of the substance of | Classification of the substance or mixture | | | | |
| 2.1.1 | Classification according to Regu | ulation (EC) No 1 | 272/2008 (CLP) | | | |
| | Hazard class and catego | ory code: | Hazard statements*: | | | |
| | Not identified as hazardous sub | ostance. | - | | | |
| 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: | M.F. REAGENT | | | | |
| | Identification number: | - | | | | |
| | Authorization number: | - | | | | |
| | Hazard pictograms: | - | | | | |



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|---------------|-----------|----------------------|-------------|-----------|---|
| Trading name: | | ІТ | | | |
| Product code: | MF-OT-X** | Date of compilation: | 21 Dec 2022 | Version: | 4 |

| | Signal word: | - |
|-----|---|---|
| | Hazard statements: | - |
| | Precautionary statements: | - |
| | Supplemetal hazard information (EU): | - |
| 2.3 | Other hazards | |
| | Endocrine Disrupting Prope | erties: |
| | No known endocrine disrupti | 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) | | | | |
| - | - | - | Contains no hazardous substances | - | | | | |

| 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. | | | | |
| | Following skin contact: | Remove contaminated clothing. Immediately wash with plenty of water for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain. | | | | |
| | Following eye contact: | Rinse out with plenty of water with the eyelid held wide open for at least 20 minutes. If the symptoms remain, immediately call in ophthalmologist. | | | | |
| | Following ingestion: | Rinse the mouth thoroughly with 1-2 glasses of water. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital. | | | | |
| | Self-protection of the first aider: | - | | | | |
| 4.2 | Most important symptoms and ef | fects, both acute and delayed | | | | |
| | Following inhalation: | According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested. | | | | |



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| Trading name: | M.F. REAGENT | | | | | | | |
|---------------|--------------|----------------------|-------------|----------|---|--|--|--|
| Product code: | MF-OT-X** | Date of compilation: | 21 Dec 2022 | Version: | 4 | | | |
| | | | | | | | | |

| | Following skin contact: | According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested. | | | | | |
|-----|--|--|--|--|--|--|--|
| | Following eye contact: | According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested. | | | | | |
| | Following ingestion: | According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested. | | | | | |
| 4.3 | Indication of any immediate medical attention and special treatment needed | | | | | | |
| | - | | | | | | |

| SECTI | SECTION 5. Firefighting measures | | | | | |
|-------|---|--|--|--|--|--|
| 5.1 | Extinguishing media | | | | | |
| | Suitable extinguishing media: | water spray, dry powder, CO ₂ or alcohol resistant foam | | | | |
| | Unsuitable extinguishing media: | Water with full jet | | | | |
| 5.2 | Special hazards arising from the su | bstance or mixture | | | | |
| | Hazardous combustion products: | no information available | | | | |
| 5.3 | Advice for firefighters | | | | | |
| | Use a self-contained open-circuit c | ompressed air breathing apparatus and fireproof clothing. | | | | |
| 5.4 | Additional information | | | | | |
| | Cool endangered receptacles with water spray. Collect contaminated fire fighting water separately. Do not contaminate the environment with extinguishing media. | | | | | |

| SECTIO | SECTION 6. Accidental release measures | | | | | |
|--------|--|---|--|--|--|--|
| 6.1 | Personal precautions, protective equipment and emergency procedures | | | | | |
| 6.1.1. | For non-emergency personnel | | | | | |
| | Protective equipment: | Use personal protective equipment (see Section 8). | | | | |
| | 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, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112. | | | | | |
| 6.3 | Methods and material for containment and cleaning up | | | | | |
| 6.3.1. | Bunding, covering of drains; capping procedures: | Sand protective barrier or barriers made of similar materials. | | | | |



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| | | | | 1 | | | |

| 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 on safe handling. | | | | |
| | See Section 8 for information | on personal protection equipment. | | | |
| | See Section 13 for disposal in | oformation. | | | |

| SECTIO | DN 7. Handling and storage | | | | | | | | |
|--------|---|--|---|--|--|--|--|--|--|
| 7.1 | Precautions for safe handling | 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 generatio | n: | 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: | | | | | | | | |
| | Do not eat, drink or smoke in the workspace. Th | oroughly was | sh hands after work and before eating. | | | | | | |
| 7.2 | Conditions for safe storage, including any incom | npatibilities | | | | | | | |
| | Technical measures and storage conditions: | well ventil | ghtly closed and upright set containers in a ated storage rooms at temperatures ranging 25 °C. Protect from heat and direct sunlight. | | | | | | |
| | Packaging materials: | Manufactu | urer's original packaging. | | | | | | |
| | Requirements for storage rooms and vessels: | Keep away from food and drink. Keep the containers tightly closed. | | | | | | | |
| | Advices for storage equipment: Advices for storage equipment: The storage must be made of hard material; flo must be resistant to chemicals. There must be r that directly leads into sewage system. Secure p ventilation. | | | | | | | | |



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| | 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. Expos | ure contro | ols/persc | onal pr | rotect | tion | | | | |
|----------------------|-------------|------------|---------|----------|---------|--|-------------------|---|-------------------------|
| 8.1 Control pa | arameters | | | | | | | | |
| Substance CAS I | | | S No | | | upational exposure limit lues/short term values | | | Biological limit values |
| | | | | | р | opm | mg/m ³ | | |
| - | | | - | | | - | - | - | |
| | | | | | | | | | |
| Substance name: | - | I | | - | | | | | |
| EC No: | - | CAS No | : | - | | | | | |
| DNEL | | | | | | | | | |
| | | | | | Ind | ustrial | | | |
| Route of | Αςι | ıte | | Acute | е | | Chronic | | Chronic |
| exposure: | effect | local | effe | ct sys | temic | | effect local | | effect systemic |
| Oral | - | | - | | | - | | | - |
| Inhalation | - | | - | | | - | | | - |
| Dermal | - | | - | | | - | | | - |
| Critical physical pa | rameters: s | olubility, | flamm | nability | y, corr | osivity: | - | | |
| | | | - | | Con | sumer | | | |
| Route of | | cute | | Acut | e | Chronic | | | Chronic |
| exposure: | effec | t local | effe | ect sys | temic | | effect local | | effect systemic |
| Oral | - | | - | | | - | | | - |
| Inhalation | - | | - | | | - | | | - |
| Dermal | - | | - | | | - | | | - |
| PNEC | | | | | | | | | |
| Environmental prot | tection tar | get | | | | PNEC | | | |
| Fresh water | | | | | | no inform | nation available | | |
| Freshwater sediments | | | | | | no information available | | | |
| Marine water | | | | | | no information available | | | |
| Marine sediments | | | | | | no information available | | | |



| Trading I | name: | | | M.F. REAGE | NT | | | |
|---|--|---|---|--|---|--|-----------------|--|
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| Food chai | n | | | no information a | vailable | | | |
| Microorga | anisms in | sewage treatment | | no information a | vailable | | | |
| Soil (agric | ultural) | | | no information a | vailable | | | |
| Air | | | | no information a | vailable | | | |
| | | | | | | | | |
| 8.2 | Expos | sure controls | | | | | | |
| 8.2.1. | Appro | opriate engineering con | ntrols | | | | | |
| | Substance/mixture related measures to prevent exposure during identified uses: | | | | in well ventilated ro ment. Do not eat, dı | • | | |
| Structural measures to prevent exposure: Organisational measures to prev exposure: | | • | nt | In accordance wi | th Section 7. | | | |
| | | orevent | Organization of work in order to reduce other worker's influence during work process. | | | | | |
| | Technical measures to prevent exp | | nt exposure: | Secure proper workspace ventilation in order to keep posure: concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering. | | | | |
| 8.2.2. | Perso | nal protection equipme | ent | | | | | |
| 8.2.2.1. | Eye aı | nd face protection: | levels | of concentration in | o face (EN 166) or v air; protective gas i ner levels of concen | mask that covers | | |
| 8.2.2.2. | Skin p | protection | I | | | | | |
| | 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 | During everyday work use cotton cl footwear, such as rubber boots (EN entire foot. In case of spilling hazar impermeable material suitable for p (Viton, PVC, himex) and footwear m | | | boots (EN 20345) o lling hazard, use clo itable for protection | r shoes that cove thing made of 1 from liquid cher | er the nical | |
| 8.2.2.3. | Respi | ratory protection: | with a | filter for organic va | (EN 136) or half ma apors, type "A" (boil sed when concentra | ing point >65°C) | - | |
| 8.2.2.4. | Therm | nal hazards: | No info | ormation available | | | | |
| 8.2.3. | Enviro | onmental exposure con | trols | | | | | |
| | | ance/mixture related ures to prevent exposu | re: See Se | ction 6 | | | | |



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| Trading name: | | M.F. REAGE | NT | | |
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| I | 1 | | 1 | 1 | |

| 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: | dark red | 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 availableNo information available | |
| | Flash point: | No information available | | |
| | Auto-ignition temperature: | No information available | No information available | |
| | Decomposition temperature: | No information available | No information available | |
| | Flash point: Auto-ignition temperature: Decomposition temperature: 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 | |

| SECTION 10. Stability and reactivity | | | | | | | |
|--------------------------------------|-------------|------------------------------------|--|--|--|--|--|
| 10.1 | Reactivity: | See subsections 10.3 through 10.5. | | | | | |



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| Trading name: | | M.F. REAGE | | | | | |
|-------------------------|-------------|--------------------------|---|--------------------------|---|--|--|
| Product code: MF-OT-X** | | Date of compilation: | 21 Dec 2022 | Version: | 4 | | |
| 10.2 | Chemical | stability: | The product is chemically conditions of storing and | | | | |
| 10.3 | Possibility | of hazardous reactions: | No information available | No information available | | | |
| 10.4 | Condition | s to avoid: | No information available | No information available | | | |
| 10.5 | Incompati | ble materials: | No information available | | | | |
| 10.6 | Hazardous | s decomposition products | nposition products: No information available | | | | |

| | oxicological informat nation on hazard classes | | n Regu | lation (EC) No ² | 1272/20 | 08 | | |
|--------------------------------|--|---------------|--------------------------|--|---------------------------------|----------|------|---------|
| | toxicity: | | | | | | | |
| Route of exposure: | Method | Species | Effe | ective Dose LD ₅ or ATE _{mixture} | ₅₀ /LC ₅₀ | Exposure | time | Results |
| Oral: | No information available | - | No | information ava | ailable | _ | | - |
| Dermal: | No information available | - | No | information ava | ailable | - | | - |
| Inhalation: | No information available | - | No | information ava | ailable | - | | - |
| Specif | ic target organ toxicity - | - single expc | osure (S | TOT SE): | | | | |
| | Specific | c effects | | Targe | et organ | | | Note |
| Oral: | No information a | vailable | No information available | | ble | - | | |
| Dermal: | No information a | vailable | No information available | | ble | - | | |
| Inhalation: | No information a | vailable | | No informatio | on availa | ble | - | |
| Aspira | tion hazard: | Ν | o inforr | nation available | e. | | | |
| Irritatio | on and corrosion | | | | | | | |
| | Exposure | time | Speci | ies Evalu | ation | Method | | Note |
| Skin corrosion/irrita | tion: | - | | - | | - | - | |
| Serious eye damage/irritati | on - | - | | - | | - | - | |
| Sensiti | ization | | | | | | | |
| Skin sensitizatio | on: No infor | mation avail | able. | | | | | |
| Respiratory sen | citization: No infor | mation avail | ahla | | | | | |



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| Trading name: | | M.F. REAGEN | IT | | |
|---------------|-----------|----------------------|-------------|----------|---|
| Product code: | MF-OT-X** | Date of compilation: | 21 Dec 2022 | Version: | 4 |

| Oral exposure: | No informat | on available. | | | | |
|--------------------------|--------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|------|
| Dermal exposure | : No informat | on available. | | | | |
| Inhalation expos | ure: No informat | on available. | | | | |
| Eye exposure: | No informat | on available. | | | | |
| | | | | | | |
| Repeate | ed dose toxicity (sub | acute, subchro | onic, chronic) | | | : |
| | Dose | Exposure time | Species | Method | Evaluation | Note |
| Subacute oral | No information available | No information available | No information available | No information available | No information available | - |
| Subacute dermal | No information available | No information available | No information available | No information available | No information available | - |
| Subacute inhalation | No information available | No information available | No information available | No information available | No information available | - |
| Subchronic oral | No information available | No information available | No information available | No information available | No information available | - |
| Subchronic dermal | No information available | No information available | No information available | No information available | No information available | - |
| Subchronic inhalation | No information available | No information available | No information available | No information available | No information available | - |
| Chronic oral | No information available | No information available | No information available | No information available | No information available | - |
| Chronic dermal | No information available | No information available | No information available | No information available | No information available | - |
| Chronic inhalation | No information available | No information available | No information available | No information available | No information available | - |



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| | | | | | Pag | ge 10 of 17 | |
|---|--|---|--|---|--|--|----------------------|
| Trading name: | | | | M.F. REAGE | NT | | |
| Product code: M | | MF-OT-X** | Date of | compilation: | 21 Dec 2022 | Version: | 4 |
| Subacu | te oral | No information | available | No in | formation available | - | |
| | te dermal | No information | | | formation available | - | |
| | te inhalation | | | | formation available | - | |
| Subchr | onic oral | No information | available | No in | formation available | - | |
| Subchr | onic dermal | No information | available | No in | formation available | - | |
| Subchr | onic inhalatio | on No information | available | No in | formation available | - | |
| Chronic | c oral | No information | available | No in | formation available | - | |
| Chronic | c dermal | No information | available | No in | formation available | - | |
| Chronic inhalation Chronic inhalation CMR effects (Carcinogenicity Genotoxicity: Genotoxicity: Germ cell mut Reproductive Summary of properties: | | No information | available | No in | formation available | - | |
| | | ity <i>in vivo</i> : mutagenicity: ive toxicity: of evaluation of | Basec Basec Basec | l on available da l on available da l on available da | ta, the classification of ta, the classification of ta, the classification of ta, the classification of le data, the classific | criteria are not r criteria are not r criteria are not r | met. met. met. |
| 11.2 | | n on other hazards: | | | | | |
| 11.2.1. | | disrupting properties: | | | | | |
| | componen disrupting Article 57 regulation | ance/mixture does r ts considered to have properties according (f) or Commission (EU) 2017/2100 or ((EU) 2018/605 at leve | e endocrine 3 to REACH Delegated Commission | | | | |
| | | | | | | | |

| SECTION 12. Ecologic | SECTION 12. Ecological information | | | | | | | | | | | |
|--------------------------------|------------------------------------|------------------|---------|--------|------------|------|--|--|--|--|--|--|
| 12.1 Toxicity | | | | | | | | | | | | |
| Acute (short-term) toxicity | Dose | Exposure time | Species | Method | Evaluation | Note | | | | | | |



No information

available

No

available

information

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

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| Trading name: | M.F. REAGENT | | | | | |
|---------------|--------------|----------------------|-------------|----------|---|--|
| Product code: | MF-OT-X** | Date of compilation: | 21 Dec 2022 | Version: | 4 | |

| 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 | 4 days | No information available | No information available | No information available | _ |
| Other organisms | - | - | - | - | - | - |
| Chronic (long-term) toxicity | Dose | Exposure time | Species | Method | Evaluation | Note |
| | | | No information | No | No | |
| Fish | LC ₅₀ | 96 hours | available | information available | information available | - |
| Fish Crustacea: | LC ₅₀ EC ₅₀ | 96 hours 48 hours | | | | - |
| | | | available No information | available No information | available No information | |

| | 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 | - |

No information

available

No information

available

No information

available



| | | | | | | | | | | I | Page ' | 12 of 17 | |
|---------|-------------------------------|----------|---------------------------|--------|------------------------|-------------------|------------------------|-------------------|--------------------------------|--------------------------|--------|----------|---|
| Tradin | g name: | | | | | | I | M.F. RE | AGENT | | ••••• | | |
| Produc | ct code: | MF-C | DT-X** | | | Date | of co | mpilati | on: 21 De | ec 2022 | | Version: | 4 |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | 1 | | | | | | | | | | | | |
| 12.3 | Bioaccum | - | | | | | | | | | | | |
| | Octanol-v | | | | | - | | | | | | | |
| Valu | ie Co | ncentra | tion | рН | | °C | Me | ethod | Evalu | ation | | Note | |
| - | - | | | - | - | | - | | - | | - | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | Bioconcer | atration | factor (| | | | | | | | | | |
| N. | /alue | litation | Specie | - | | N | /lethod | | Evaluati | on | | Note | |
| | ormation | No | - | ormat | tion | No info | | | No informati | | | Note | |
| availab | | availa | | onnat | | availab | | ,,,, | available | on | - | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | Chronic e | cotoxici | ty | | | | 1 | | ł | 1 | | ł | |
| | Value | | Dos | e | | osure me | Spe | ecies | Method | Evalu | ation | Note | |
| Chronic | c toxicity on | fish | LC ₅₀ | i | No inforr availa | mation able | No inforr availa | nation Ible | No information available | No informa availab | | - | |
| Chronic | c toxicity on | | | | No | | No | | No | No | | | |
| | ea (Daphnia | | EC ₅₀ | | inforr availa | mation | inforr availa | nation | information available | informa availab | | - | |
| | | | | | avanc | | avana | ibic | available | availab | | | |
| 12.4 | Mobility i | n soil | | | | | | | | | | | |
| | Known or | | ed distri | butior | n in e | nvironm | iental c | ompart | ments: | | | | |
| | No inform | • | | | | | | • | | | | | |
| | Surface te | ension: | | | | | | | | | | | |
| | Value | | °C | | Co | oncentra | tion | | Method | | | Note | |
| | No informatio available | | o formatic vailable | on | | informa ilable | tion | No inf availat | ormation ble | - | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |



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|---------------|--------------|----------------------|-------------|----------|---|--|
| Product code: | MF-OT-X** | Date of compilation: | 21 Dec 2022 | Version: | 4 | |

| | Adsorption / desorption | | | | |
|----------|---|-----------------------------|-----------------------------|--------------------------------|------------------|
| Transpo | rt A/D coefficient Henry's constant | log Kow | Evaporation rate | Method | Note |
| Soil-wat | er No information available | No information available | No information available | No information available | - |
| Water-a | ir No information available | No information available | No information available | No information available | - |
| Soil-air | No information available | No information available | No information available | No information available | - |
| 12.5 | Results of PBT and vPvB asse | ssment | | | |
| | The substance/mixture does | | nents considered to ba | ve endocrine di | |
| | according to REACH Article 5 Regulation (EU) 2018/605 at | 7(f) or Commission | n Delegated regulation | | |
| | | | | | |
| 12.6. | Endocrine disrupting propert | ies | | | |
| | The substance/mixture does according to REACH Article 5 Regulation (EU) 2018/605 at | 7(f) or Commission | n Delegated regulation | | |
| | | | | | |
| 12.7 | Other adverse effects | | | | |
| | No further relevant informati | on available. | | | |
| | | | | | |
| | N 13. Disposal consideration | IS | | | |
| 13.1 | Waste treatment methods | | | | |
| | | | | | |
| 13.1.1. | Product/Packaging disposa | | | | |
| | Submit for disposal to the Protection. | egal person autho | rized by the Ministry of | Environmental | and Nature |
| 13.1.2. | Waste codes/waste design | ations according to |) Law: | | |
| | 15 01 10*: Packaging that of substances | contains residual ha | azardous substances or | is contaminated | l with hazardous |
| 13.1.3. | | | | | |
| | Waste treatment – relevant | the familie of the second | | | |



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|-----------|-------------|-----------------------|--|-----------------------|-------------|---|
| Trading | name: | | M.F. REAGI | ENT | | |
| Product | code: | MF-OT-X** | Date of compilation: | 21 Dec 2022 | Version: | 4 |
| | No info | rmation available | | | | |
| | | | | | | |
| 13.1.4. | Sewage | disposal – relevant | information: | | | |
| | Waste r | nust not be dispose | d of into the sewage system. | | | |
| 13.1.5. | Other d | isposal recommend | ations: | | | |
| | authoriz | zed by the ministry i | uct's remains into the sewage syst n charge. Do not dispose of the pa tors authorized by the ministry in o | ackaging into the sev | | |
| 13.1.6. | Relevan | t Community provis | ions: | | | |
| | Disposa | ll must be made acc | ording to official regulations. | | | |
| | | | | | | |
| SECTION | N 14. Trar | sport information | | | | |
| | Transport | ing/shipment by roa | ad (ADR) | | | |
| UN num | ber: | | Not subject to transport regu | llations | | |
| UN prop | er shippin | ig name: | - | | | |
| Transpor | rt hazard o | lass(es): | - | | | |
| Packing | group: | | - | | | |
| Environn | nentally ha | azardous: | - | | | |
| Special p | precaution | s for user: | - | | | |
| | Transport | ing/shipment by rai | I (RID) | | | |
| UN num | ber: | | Not subject to transport regu | llations | | |
| UN prop | er shippin | ig name: | - | | | |
| Transpor | rt hazard o | lass(es): | - | | | |
| Packing | group: | | - | | | |
| Environn | nentally ha | azardous: | - | | | |
| Special p | precaution | s for user: | - | | | |
| | Inland wa | terway transport (A | DN) | | | |
| UN num | ber: | | Not subject to transport regu | llations | | |
| UN prop | er shippin | ig name: | - | | | |
| Transpor | rt hazard o | lass(es): | - | | | |
| Packing | group: | | - | | | |
| Environn | nentally ha | azardous: | - | | | |
| Special p | recaution | s for user: | - | | | |
| | Transport | ing/shipment by sea | a (IMDG) | | | |
| UN num | ber: | | Not subject to transport regu | Ilations | | |



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| Product code: | MF-OT-X** | Date of compilation: | 21 Dec 2022 | Version: | 4 | |

| 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 | AO-TI/IATA-DGR) |
| | |
| UN number: | Not subject to transport regulations |
| UN number: UN proper shipping name: | Not subject to transport regulations - |
| | · · · · · · · · · · · · · · · · · · · |
| UN proper shipping name: | - |
| UN proper shipping name: Transport hazard class(es): | - |
| UN proper shipping name: Transport hazard class(es): Packing group: | - - - |
| UN proper shipping name: Transport hazard class(es): Packing group: Environmentally hazardous: | |

| 15.1 | Safety, health and enviro | nmental regulations/legislation specific for the substance or mixture |
|------|---------------------------|---|
| | EU regulations | |
| | Authorization and/or rest | trictions of use |
| | Authorizations: | - |
| | Restrictions: | - |
| | Other EU regulations: | Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EC) 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); |



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| | Information according 1 guideline) | 999/13/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 assessm | ent |
| | None | |

| SECTIC | ON 16. Other information | | | | |
|----------|---|--|--|--|--|
| 16.1 | Indication of changes: | - | | | |
| 16.2 | Abbreviations and acronyms: | ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative | | | |
| 16.3. | Key literature references and source of data: | - | | | |
| 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. | t Further information: \ i | * "X" in the product code marks different volumes (different packagings of he product) We are not responsible for consequences in case of failure to comply with nstructions for use or improper use of the product described in this material safety data sheet. | | | |



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|---------------|-------------------------------|----------------------|-------------|----------|---|--|
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| Product code: | MF-OT-X** | Date of compilation: | 21 Dec 2022 | Version: | 4 | |
| | | | | | | |
| - | | | | | | |