Page 1 of 16

| Trading name: | HEMATOXYLIN H | | | | |
|---------------|---------------|----------------|-------------|----------|---|
| Product code: | HEMH-OT-X** | Revision date: | 01.10.2020. | Version: | 6 |

| SECTI | ION 1 IDENTIFICATION | OF THE SUB | STANCE/MIX | KTURE AND OF THE COMPANY/UNDERTAKING | | | |
|-------|-------------------------|--|---|--------------------------------------|--|--|--|
| 1.1. | Product identifier | | | | | | |
| | Trading name: | НЕМАТОХ | YLIN H | | | | |
| | Chemical name: | - | | | | | |
| | Catalogue number: | HEMH-OT | HEMH-OT-X** | | | | |
| 1.2. | Relevant identified use | es of the sub | stance or mix | ture and uses advised against | | | |
| | Uses: | Modified hematoxylin according to Harris for nuclear staining. | | | | | |
| | Uses advised against: | | Only the identified uses are advised. | | | | |
| | Reason why uses advi | sed 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: | E | ioGnost Ltd. | | | | |
| | Address: | ١ | /ledjugorska | 59, Zagreb | | | |
| | Telephone number: | 4 | -385 1 24099 | 97 | | | |
| | Fax no.: | 4 | -385 1 24040 | 39 | | | |
| | e-mail of competent p | oerson: <u>r</u> | nsds@biogno | ost.hr | | | |
| | National contact: | - | | | | | |
| 1.4. | Emergency telephone | number | | | | | |
| | National Protection ar | nd Rescue Di | rectorate: | 112 | | | |
| | Medical information: | | | +385 1 2348 342 | | | |
| | Other information: | | | - | | | |

| SECTIO | SECTION 2 HAZARDS INFORMATION | | | | | |
|---------|------------------------------------|---|-----------------|--|--|--|
| 2.1. | Classification of the substance of | Classification of the substance or mixture | | | | |
| 2.1.1. | Classification according to Regu | lation (EC) No 1 | 1272/2008 (CLP) | | | |
| | Hazard class and catego | Hazard class and category code: Hazard statements*: | | | | |
| | Eye Dam. 1 | | H318 | | | |
| 2.1.2. | Additional information | | | | | |
| | - | | | | | |
| *For fu | ll text of Hazard- and EU Hazard-s | statements: see S | Section 16 | | | |
| 2.2. | Label elements | | | | | |
| | Product identification: | Product identification: HEMATOXYLIN H | | | | |
| | Identification number: - | | | | | |
| | Authorization no.: | _ | | | | |

Page 2 of 16

| | | | | | , = = | |
|---------------|-------------|-------------------|-------------|----------|-------|--|
| Trading name: | | HEMA [*] | TOXYLIN H | | | |
| Product code: | HEMH-OT-X** | Revision date: | 01.10.2020. | Version: | 6 | |

| | Hazard pictograms: | GHS05 |
|------|---------------------------|---|
| | Signal word: | Danger |
| | Hazard statements: | H318 Causes serious eye damage. |
| | Precautionary statements: | P280 Wear protective gloves/protective clothing/eye protection/face protection. P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor/if you feel unwell. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. P310 Immediately call POISON CENTER or a doctor/physician if exposed. |
| | Further information: | - |
| 2.3. | Other hazards | |
| | - | |

| SECTION 3 CO | SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS | | | | | | | | | |
|---|--|--------------------------------|-------------------------------------|--|--|--|--|--|--|--|
| CAS/ EC/ Index no. | REACH Registration No | Weight % content (or range) | Identification name | Classification according to Regulation (EC) No 1272/2008 (CLP) | | | | | | |
| 107-21-1/ 203-473-3/ 603-027-00-1 | 01-2119456816- 28-xxxx | < 10 | ethylene glycol | Acute Tox. 4, H302 | | | | | | |
| 17927-65-0/ 605-852-2/ - | - | ≤ 10 | aluminum sulfate octadecahydrate | Eye Dam. 1; H318 | | | | | | |

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

Page 3 of 16

| | | | | | <i>je o o.</i> | |
|---------------|---------------|----------------|-------------|----------|----------------|--|
| Trading name: | HEMATOXYLIN H | | | | | |
| Product code: | HEMH-OT-X** | Revision date: | 01.10.2020. | Version: | 6 | |

| | Following eye contact: Following ingestion: | | Rinse out with plenty of water with the eyelid held wide open using clean fingers. If the symptoms remain, immediately call a physician. | |
|------|--|---|---|--|
| | | | 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 aid | der: | Treat symptomatically. | |
| 4.2. | Most important symptoms a | nd effe | ects, both acute and delayed | |
| | Following inhalation: | Inhalation of large amounts of vapors in inadequately ventilated perimet may 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. | |
| | Following eye contact: | | t eye contact may cause slight to moderate irritation, lacrimation and ing sensation. If the symptoms persist, immediately call a physician. | |
| | Following ingestion: | Swallowing may cause irritation of mucosa, tingling sensation in the moburning sensation; higher levels of concentration may cause nausea, abdominal pain and vomiting. In case of vomiting, aspiration causes coughing, difficult breathing. Higher levels of concentration may cause suffocation. | | |
| 4.3. | Indication of any immediate 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 environment with extinguishing media. | | | | | |

| SECTI | SECTION 6 ACCIDENTAL RELEASE MEASURES | | | |
|--------|---|--|--|--|
| 6.1. | Personal precautions, protective equipment and emergency procedures | | | |
| 6.1.1. | For non-emergency personnel | | | |

Page 4 of 16

| Trading name: | HEMATOXYLIN H | | | | |
|---------------|---------------|----------------|-------------|----------|---|
| Product code: | HEMH-OT-X** | Revision date: | 01.10.2020. | Version: | 6 |

| | Evacuate members of all non-essential personnel and those members without protective equipment. Remove all sources of sparks and ignition. Do not smoke. Mark the area using proper signs. Pee Section 8). Brainage system and waterways. In case of large spillage contact National | | |
|--|---|--|--|
| mergency responders: r protective equipment (se onmental precautions: ot dispose of in sewage, d | ee Section 8). | | |
| onmental precautions: ot dispose of in sewage, d | | | |
| onmental precautions: ot dispose of in sewage, d | | | |
| ot dispose of in sewage, d | Irainage system and waterways. In case of large spillage contact National | | |
| | Irainage system and waterways. In case of large spillage contact National | | |
| ection and Rescue Director | rate (NPRD) on 112. | | |
| nods and material for cont | ontainment and cleaning up | | |
| ling, covering of drains; ing procedures: | Sand or clay barriers. | | |
| ning 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. | | |
| | - | | |
| • • | | | |
| | information: | | |

| SECTIO | ON 7 HANDLING AN STORAGE | | | |
|--------|--|---|--|--|
| 7.1. | Precautions for safe handling | | | |
| 7.1.1. | Protection measures | | | |
| | Measures to prevent fire: | Keep away from sources of heat and ignition. Do not smoke. | | |
| | Measures to prevent aerosol and dust generation | Secure proper ventilation. | | |
| | Measures to protect the environment: | Prevent spilling into the sewage system and waterways. | | |
| | Other measures: | - | | |
| 7.1.2. | Advice on general occupational hygiene: | | | |
| | Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating. | | | |
| 7.2. | Conditions for safe storage, including any incompatibilities | | | |
| | Technical measures and storage conditions: | Keep in tightly closed and upright set containers in a well ventilated storage rooms, and away from sources of heat, sunlight, and other incompatible substances. | | |
| | Packaging materials: | Manufacturer's original packaging. | | |

Page 5 of 16

| Trading name: | | HEMAT | | | |
|---------------|-------------|----------------|-------------|----------|---|
| Product code: | HEMH-OT-X** | Revision date: | 01.10.2020. | Version: | 6 |

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

| 8.1. Control | parameters | | | | | | |
|---------------------|--------------|--------------------|--------|-----------------------|-------------------------------|-------------------|--------------------------------|
| Substan | | CAS No | | | exposure limit term values | Bio | ological limit values |
| | | | ppm | om mg/m³ | | 2.0.0 g.ca vaides | |
| Ethylene glycol | | 107-21-1 | 1 | 20/40 | 52/104 | No infor | mation available |
| | | | | | | | |
| Substance name: | | | | | | | |
| EC No: - | | CAS No: | - | | | | |
| DNEL | | | | | | | |
| | | | | Industrial | | | |
| Route of exposure: | | Acute ect local | effe | Acute ect systemic | Chron effect lo | - | Chronic effect systemic |
| Oral | - | - | | , | - | | - |
| Inhalation | - | - | | | 35 mg/ kg (ethylene gly | col) | - |
| Dermal | - | - | | | - | | 106 mg/kg (ethylene glycol) |
| Critical physical p | arameters: s | olubility, flam | mabili | ty, corrosivity: | - | | |
| | | | | Consumer | | | |
| Route of | A | Acute | | Acute | Chron | iic | Chronic |
| exposure: | effe | ect local | effe | ect systemic | effect lo | ocal | effect systemic |
| Oral | _ | _ | | | _ | | _ |

SAFETY DATA SHEET **Regulation (EC) No. 1907/2006

Page 6 of 16

| | | | | | | | | Page 6 of 16 | |
|--|------------------------------------|------------------------------------|--------------------------------|---|--|---|--------------------------|---|--|
| Trading r | name: | | | | HEMA | TOXYLIN H | | | |
| Product o | code: | HEMH-OT-X** | | Revisio | n date: | 01.10.2020. | V | ersion: 6 | |
| | | | | | | 1 | · | | |
| Inhalation | | _ | _ | | | 7 mg/kg | | - | |
| | | | | | | (ethylene glycol) | | | |
| Dermal | | - | _ | | | - | | 53 mg/kg | |
| PNEC | | | | | | | | (ethylene glycol) | |
| _ | ontal prot | taction target | | | PNEC | | | | |
| Environmental protection target Fresh water | | | | | | (ethylene glycol) | | | |
| Freshwate | | ntc | | | | g (ethylene glycol) | | | |
| Marine wa | | nts | | | | ethylene glycol) | | | |
| Marine wa | | | | | | kg (ethylene glycol) | | | |
| Food chair | | | | | | | | | |
| | Microorganisms in sewage treatment | | | | No information available 199.5 mg/l (ethylene glycol) | | | | |
| | Soil (agricultural) | | | | 1.53 mg/kg (ethylene glycol) | | | | |
| Air | _ | | | | No information available | | | | |
| 7 (11 | | | | | 140 111101 | mation available | | | |
| 8.2. | Exposi | ure controls | | | | | | | |
| 8.2.1. | | eering measures | | | | | | | |
| | | ance/mixture relate | d | | 1 | | | | |
| | measu | ires to prevent expo | | Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace. | | | | | |
| | | j identified uses: | | equipment 50 not early animous smoke in the frontipace. | | | | | |
| | Structi exposi | ural measures to pr ure: | event | No information available | | | | | |
| | | isational measures nt exposure: | to | Organization of work in order to reduce other worker's influer during work process. | | | ther worker's influence | | |
| | Techn | ical measures to pr | event | Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. | | | - | | |
| 8.2.2. | | nal protection equip | oment | concern | in a clott lev | eis iii uii belew per | meece | 1 10 0 13. | |
| 8.2.2.1. | | nd face protection: | | Safety glasses that stick to face (preventing splashing) (EN 166) | | | g splashing) (EN 166) or | | |
| 0222 | | | | visor. | | | | | |
| 8.2.2.2. | 2kin b | rotection | Droto | rtivo alas | oc muct be | according to the | :II D: | octive 2016/425/556 | |
| | | | | tective gloves must be according to the EU Directive 2016/425/EEC and ndard EN 374. | | | | | |
| | Hand protection: | | Glove material: nitrile rubber | | | | | | |
| | | | | | hickness: 2 | | | | |
| | | | | | | ne: >480 min | | | |
| | Other | skin protection: | | | _ | nade of natural fibe hoes that cover the | | ch as cotton) with long e foot (EN 10335). | |

SAFETY DATA SHEET **Regulation (EC) No. 1907/2006

Page 7 of 16

| Trading name: | | ATOXYLIN H | | | |
|---------------|-------------|----------------|-------------|----------|---|
| Product code: | HEMH-OT-X** | Revision date: | 01.10.2020. | Version: | 6 |

| 8.2.2.3. | Respiratory protection: | filter fo | tive full face mask (EN 136) or half mask (EN 140) equipped with a or organic vapors, type "A" (boiling point >65°C) acording to EN used when concentration levels exceed GVI. |
|----------|--|-----------|--|
| 8.2.2.4. | Thermal hazards: | No inf | ormation available |
| 8.2.3. | Environmental exposure controls Substance/mixture related measures to prevent exposure: | | |
| | | | See Section 6 |
| | Structural measures to prescribe exposure: | revent | Use modern equipment. |
| | Organisational measures to prevent exposure: | | Adapt the work process to the required working conditions of the workplace. |
| | Technical measures to prexposure: | event | See Section 6 |

| 1. | Information on basic physical and chen | nical properties | | |
|----|---|--------------------------|--------------------------|--|
| | | Value | Method | |
| | Physical state: | liquid | No information available | |
| | Color: | purple - red | No information available | |
| | Odor: | no odor | No information available | |
| | Odor threshold: | No information available | No information available | |
| | pH: | 2.3 - 2.7 | No information available | |
| | Melting point / freezing point; | No information available | No information available | |
| | Initial boiling point and boiling range: | No information available | No information available | |
| | Flash point: | No information available | No information available | |
| | Evaporation rate: | No information available | No information available | |
| | Flammability (solid, gas): | No information available | No information available | |
| | Upper/lower flammability or explosive limits: | No information available | No information available | |
| | Vapor pressure: | No information available | No information available | |
| | Vapor density: | No information available | No information available | |
| | Relative density: | No information available | No information available | |
| | Bulk density: | No information available | No information available | |
| | Solubility(ies): | Soluble in water (20 °C) | No information available | |
| | Partition coefficient: n-octanol/water (log Kow): | No information available | No information available | |
| | Auto-ignition temperature: | No information available | No information available | |
| | Decomposition temperature: | No information available | No information available | |

Page 8 of 16

| Trading name: | | HEMA | TOXYLIN H | | |
|---------------|-------------|----------------|-------------|----------|---|
| Product code: | HEMH-OT-X** | Revision date: | 01.10.2020. | Version: | 6 |

| | Viscosity: | No information available | No information available |
|------|-----------------------|--------------------------|--------------------------|
| | Explosive properties: | No information available | No information available |
| | Oxidising properties: | No information available | No information available |
| 9.2. | Other information | | |
| | - | | |

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

| 11.1. Information | n on toxicological effe | ects | | | |
|---|---|----------------|---|----------------------------|----------------------------------|
| Acute toxic | ity: | | | | |
| Route of exposure: | Method | Species | Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture} | Exposure tir | ne Results |
| Oral exposure: | No information available | rat | LD ₅₀ | - | 7.712 mg/kg (ethylene glycol) |
| Dermal exposure: | No information available | rabbit | LD ₅₀ | - | >3.500mg/kg (ethylene glycol) |
| Inhalation exposure: | No information available | - | LC ₅₀ | - | - |
| Specific tar | get organ toxicity – si | inale exposure | (STOT SF)· | | |
| Specific effe | | | Target organ | | Note |
| Oral exposure: No information available | | | | No information available | |
| Dermal exposure: | Dermal exposure: No information available | | No informatio | No information available - | |
| Inhalation exposure: No information availal | | available | ole No information available - | | _ |
| Respiratory | virritation: | No info | ormation available | | |

.

Irritation and corrosion

Page 9 of 16

| Trading name: | HEMATOXYLIN H | | | | | |
|---------------|---------------|----------------|-------------|----------|---|--|
| Product code: | HEMH-OT-X** | Revision date: | 01.10.2020. | Version: | 6 | |

| | | Exposure | time S _I | pecies [| valuation | Method | | Note |
|---|--------------------------|-------------------------|---|--------------------------------|-------------------------|---------------|--------------------------------|------------------|
| Skin irritation: | | - | rabb | it - | | - | Slight irrit | ation (ethylene |
| Eye irritation: | | 24 h | rabb | it - | | - | Slight irrit glycol) | ation (ethylene |
| Sensitiza | ation | | | | | | | |
| Dermal exposure | e: N | lo information | available | | | | | |
| Inhalation exposure: | ٨ | o information available | | | | | | |
| Sympto | ms re | lated to the ph | nysical, chemic | al and toxico | ogical char | acteristics | | |
| Oral exposure: | | sensation; hi | may cause irrita gher levels of o miting, aspirat n may cause so | concentration ion causes co | may cause | nausea, a | abdominal pa | in and vomiting. |
| Dermal exposure | : | | on. After short rying, cracking | | | | ot likely. Long | J-term exposure |
| Inhalation exposure: Inhalation of large amounts of vapors in in coughing, sneezing, headache and nausea. | | | | | ely ventila | ted perimeter | may cause | |
| Eye exposure: Direct eye co sensation. | | | ontact may cau | se slight to m | noderate irr | itation, la | crimation and | burning |
| Repeate | ed dos | se toxicity (sub | acute, subchro | onic, chronic) | | | | |
| | | Dose | Exposure time | Species | Metho | d | Evaluation | Note |
| Subacute oral | No information available | | No information available | No information available | No inform availab | ation | No information available | - |
| Subacute dermal | No information available | | No information available | No information available | No inform availab | ation | No information available | - |
| Subacute inhalation | No information available | | No information available | No information available | No inform availab | ation | No information available | - |
| Subchronic oral | No information available | | No information available | No information available | No inform availab | ation | No information available | - |
| Subchronic dermal | | information lable | No information available | No information available | No inform availab | ation | No information available | - |

| | | | | | Pag | e 10 of 16 | |
|---------------|----------------|-------------------|-------------------|-------------|-------------------|------------|--|
| Trading name: | | | HEMA ⁻ | TOXYLIN H | | | |
| Product code: | HEMH-OT-X** | Re | evision date: | 01.10.2020. | Version: | 6 | |
| | | | | | | | |
| Subchronic | No information | No information | No information | No | No information | | |

| 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 (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 | - | | | |

| CMR effects (carcinogenicity | y, mutagenicity, reproductive toxicity) |
|------------------------------|---|
| Carcinogenicity: | Current studies on test animals did not indicate carcinogenic effects. |
| Mutagenicity in-vitro: | Current in vitro tests did not indicate mutagenic effects. |
| Genotoxicity: | No information available |
| Mutagenicity in-vivo: | Current in vivo tests did not indicate mutagenic effects. |
| Germ cell mutagenicity: | No information available |
| Reproductive toxicity: | No toxicity on reproductive organs was determined in reproductive organs. |

| Summary of evaluation of the CMR properties: |
|--|
|--|

| 11.2. | Practical experiences: | |
|-------|--------------------------------------|--------------------------|
| | Remarks relevant for classification: | No information available |

SAFETY DATA SHEET Regulation (EC) No. 1907/2006

Page 11 of 16

| | | | | 9 | | | |
|---------------|-------------|----------------|-------------|----------|---|--|--|
| Trading name: | | HEMATOXYLIN H | | | | | |
| Product code: | HEMH-OT-X** | Revision date: | 01.10.2020. | Version: | 6 | | |

| | Other remarks: | No information available |
|-------|----------------|--------------------------|
| | | |
| 11.3. | General notes: | |
| | - | |

SECTION 12 ECOLOGICAL INFORMATION:

| _ | | - | | • . |
|---|-----|----|------|------|
| 1 | 2.1 | ΙO | oxic | cit۱ |

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

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 | - |

Page 12 of 16

| | | | | . age | 12 01 10 | |
|---------------|---------------|----------------|-------------|----------|----------|--|
| Trading name: | HEMATOXYLIN H | | | | | |
| Product code: | HEMH-OT-X** | Revision date: | 01.10.2020. | Version: | 6 | |

| | Biodegra | adation | | | | | | | | | |
|--------------------------------|---|---------------------------------------|-----------------------|-----------------------|----------------|--------------------------------|----------------------------|---------------------------|--------------------------|------------------|------|
| % Deg | gradation | Tim | e (days) | | М | lethod | | Evaluatio | n | N | ote |
| | o information No information vailable available | | | lo inforn vailable | nation | No information available | | on | No information available | | |
| 12.3. | Bioaccui | nulative po | otential | | | | | | | | |
| | | coefficien | | | | - | | | | | |
| Valu | | oncentrati | • | Н | °C | Method | | Evalua | | | Note |
| - | No ava | informa ilable | ation - | | _ | No information available | 1 | No inform available | nation | - | |
| | Bioconc | entration fa | actor (BCF Species |) | | Method | | Fyaluatio | | | loto |
| | | No | inforn | nation | | | Evaluation No information | | Note No information | | |
| No information No in available | | | iation | available | | | ailable | JII | available | iation | |
| | Chronic | ecotoxicity | 1 | | | | | | : | | |
| | Value | | Dose | | osure ime | Species | | Method | Eva | aluation | Note |
| Chroni | c toxicity c | on fish | LC ₅₀ | No infor avail | mation able | No information available | 1 | o formation ailable | No inf | Formation ble | - |
| | c toxicity c | | EC ₅₀ | No infor avail | mation able | No information available | | o formation ailable | No inf availal | formation ble | - |
| | cea (<i>Daphn</i> | | | | | | | | | | |
| crustad | - | | | | | | | | | | |
| crustad | Mobility | in soil | d distribut | ion in (| environn | nental compart | mer | nts: | | | |
| crustad | Mobility Known c | in soil | | ion in e | environn | nental compart | mer | nts: | | | |
| | Mobility Known c | in soil or predicted mation ava | | ion in (| environn | nental compart | mer | nts: | | | |

SAFETY DATA SHEET Regulation (EC) No. 1907/2006

Page 13 of 16

| Trading name: | HEMATOXYLIN H | | | | | |
|---------------|---------------|----------------|-------------|----------|---|--|
| Product code: | HEMH-OT-X** | Revision date: | 01.10.2020. | Version: | 6 | |
| | 3 | | : | · | i | |

| | No information available | No information available | No information available | No information available | n _ | |
|---------------------------------------|--|--|--|--------------------------|--------------------------|--------------|
| | Adsorption | / desorption | | | | |
| Transpo | ort A | /D coefficient nry's constant | log Kow | Evaporation rate | Method | Note |
| Soil-wa | No | information | No information available | No information available | No information available | - |
| Water-a | air No availa | information ole | No information available | No information available | No information available | - |
| Soil-air | No availa | information ole | No information available | No information available | No information available | _ |
| 12.5. | | PBT and vPvB asse | ssment | | | |
| | 140 IIIIOIIII | ition available | | | | |
| | | | | | | |
| 12.6. | Other adve | | | | | |
| 12.6. | | rse effects tion available | | | | |
| | No informa | tion available | TIONS | | | |
| SECTIO | No informa | tion available | TIONS | | | |
| SECTIO | No informa | tion available | TIONS | | | |
| SECTIO 13.1. | No informa No informa No informa Waste tre | SAL CONSIDERA eatment methods | | | | |
| SECTIO 13.1. | No informa No informa No informa No informa No informa | SAL CONSIDERA eatment methods Packaging disposa | ıl: | rized by the Ministr | y of Environmenta | I and Nature |
| SECTIO 13.1. 13.1.1. | No informa ON 13 DISPO Waste tre Product/ Submit for Protection | SAL CONSIDERA eatment methods Packaging disposa or disposal to the l | ıl: egal person autho | , | y of Environmenta | l and Nature |
| SECTIO 13.1. 13.1.1. | No information of the control of the | SAL CONSIDERA eatment methods Packaging disposa or disposal to the l n. | ıl: | , | y of Environmenta | l and Nature |
| SECTIO 13.1. 13.1.1. | No information of the control of the | SAL CONSIDERA eatment methods Packaging disposa or disposal to the l | ıl: egal person autho | , | y of Environmenta | l and Nature |
| SECTIO 13.1. 13.1.1. | No information of the product of the | SAL CONSIDERA eatment methods Packaging disposa or disposal to the l n. | al: legal person autho ations according to | , | y of Environmenta | l and Nature |
| SECTIO 13.1. 13.1.1. | No information of the product/ Submit for Protection Waste co | SAL CONSIDERA eatment methods Packaging disposa or disposal to the l n. des/waste designa nation available | al: legal person autho ations according to | , | y of Environmenta | l and Nature |
| SECTIO 13.1. 13.1.1. | No information of the product/ Submit for Protection Waste co | SAL CONSIDERA eatment methods Packaging disposa or disposal to the lan. des/waste designa nation available | al: legal person autho ations according to | , | y of Environmenta | l and Nature |
| 12.6. SECTIO 13.1. 13.1.1. 13.1.2. | No information of the product of the | SAL CONSIDERA eatment methods Packaging disposa or disposal to the lan. des/waste designa nation available | al: legal person autho ations according to information: | , | y of Environmenta | l and Nature |



Page 14 of 16

| | | | | 9 | | |
|---------------|---------------|----------------|-------------|----------|---|--|
| Trading name: | HEMATOXYLIN H | | | | | |
| Product code: | HEMH-OT-X** | Revision date: | 01.10.2020. | Version: | 6 | |

| 13.1.5. | Other disposal recommend | ations: | | | | |
|-----------|---|---------------------------------------|--|--|--|--|
| | Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur. | | | | | |
| 13.1.6. | Relevant Community provisions: | | | | | |
| | - | | | | | |
| | | | | | | |
| SECTION | N 14 TRANSPORT INFORMA | TION | | | | |
| | Transporting/shipment by roa | ad (ADR) | | | | |
| UN num | ber: | Not subject to transport regulations. | | | | |
| UN prop | er shipping name: | - | | | | |
| Transpor | t hazard class(es): | - | | | | |
| Packing | group: | - | | | | |
| Environn | nentally hazardous: | - | | | | |
| Special p | recautions for user: | - | | | | |
| | Transporting/shipment by rai | l (RID) | | | | |
| UN num | ber: | Not subject to transport regulations. | | | | |
| UN prop | er shipping name: | - | | | | |
| Transpor | t hazard class(es): | - | | | | |
| Packing | group: | - | | | | |
| Environn | nentally hazardous: | - | | | | |
| Special p | recautions for user: | - | | | | |
| | Inland waterway transport (Al | DN) | | | | |
| UN num | ber: | Not subject to transport regulations. | | | | |
| UN prop | er shipping name: | - | | | | |
| Transpor | t hazard class(es): | - | | | | |
| Packing | group: | - | | | | |
| Environn | nentally hazardous: | - | | | | |
| Special p | recautions for user: | - | | | | |
| | Transporting/shipment by sea | a (IMDG) | | | | |
| UN num | ber: | Not subject to transport regulations. | | | | |
| UN prop | er shipping name: | - | | | | |
| Transpor | t hazard class(es): | - | | | | |
| Packing | group: | - | | | | |
| Environn | nentally hazardous: | - | | | | |
| Special p | recautions for user: | - | | | | |

Page 15 of 16

| | | | | 9 | | • |
|---------------|-------------|-------------------|-------------|----------|---|---|
| Trading name: | | HEMA [*] | TOXYLIN H | | | |
| Product code: | HEMH-OT-X** | Revision date: | 01.10.2020. | Version: | 6 | |

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

| 15.1. | Safety, health and environmental regulations/legislation specific for the substance or mixture | | | | | |
|-------|--|--|--|--|--|--|
| | EU regulations | | | | | |
| | Authorization and/or restrictions of use | | | | | |
| | Authorizations: | - | | | | |
| | Restrictions: | - | | | | |
| | Other EU regulations: | EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council; The European Commission Regulation No. 453/2006 of 2010 on changes and amendments to the Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH); EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer; EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals; EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants; Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives | | | | |
| | 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 | | | | | |

Page 16 of 16

| | | | | 9 | |
|---------------|---------------|----------------|-------------|----------|---|
| Trading name: | HEMATOXYLIN H | | | | |
| Product code: | HEMH-OT-X** | Revision date: | 01.10.2020. | Version: | 6 |

| SECTION 16 Other information | | |
|------------------------------|---|---|
| 16.1. | Indication of changes: | - |
| 16.2. | Abbreviations and acronyms | PBT Stable, bioaccumulative and toxic vPvB Strongly stable and strongly bioaccumulative. LD ₅₀ Lethal dose, 50% LC ₅₀ Lethal concentration, 50% STOT-SE Specific target organ toxicity - single exposure |
| 16.3. | Key literature references and source of data: | - |
| 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 (number and full text) | |
| | H: H302 | Harmful if swallowed. |
| | H318 | Causes serious eye damage. |
| 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

-