## Lovibond<sup>®</sup> Water Testing

### **Tintometer® Group**



Reviewed on 06/28/2024

### Safety Data Sheet

acc. to OSHA HCS (HazCom 2012)

Printing date 06/28/2024

### **1** Identification

- · Product identifier
- Trade name: Nitrite No.2
- · Catalogue number: 00515211, 515210BT, 515211BT, 00515219BT, 505211, 4515210BT, 4515211BT, 00505211
- · Application of the substance / the mixture: Reagent for water analysis
- Manufacturer/Supplier: Tintometer Inc. 6456 Parkland Drive Sarasota, FL 34243 USA phone: (941) 756-6410 fax: (941) 727-9654 www.lovibond.us Made in Germany
- · Emergency telephone number: + 1 866 928 0789 (English, French, Spanish)

### 2 Hazard(s) identification

### · Classification of the substance or mixture



GHS08 Health hazard

Toxic to Reproduction 2H361 Suspected of damaging fertility or the unborn child.Specific Target Organ Toxicity - Repeated Exposure 2H373 May cause damage to the brain through prolonged or repeated<br/>exposure. Route of exposure: Inhalation.

GHS09 Environment

Aquatic Chronic 2

H411 Toxic to aquatic life with long lasting effects.



Skin Irritation 2 Eye Irritation 2A H315 Causes skin irritation. H319 Causes serious eye irritation.

· Label elements

• **GHS label elements** The product is classified and labeled according to the Hazard Communication Standard (HCS). • **Hazard pictograms** 



· Signal word Warning

- Hazard-determining components of labeling:
- potassium permanganate

Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H361 Suspected of damaging fertility or the unborn child.

H373 May cause damage to the brain through prolonged or repeated exposure. Route of exposure: Inhalation.

H411 Toxic to aquatic life with long lasting effects.

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|                                   | (Contd. of page 1)   |
|-----------------------------------|--|
| <ul> <li>Precautionary</li> </ul> | statements   |
| P280                              | Wear protective gloves/protective clothing/eye protection.   |
| P273                              | Avoid release to the environment.  |
| P305+P351+P3                      | 338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. |
|                                   | Continue rinsing.  |
| P302+P352                         | If on skin: Wash with plenty of water.   |
| P308+P311                         | IF exposed or concerned: Call a poison center/doctor.  |
| P405                              | Store locked up.   |
|                                   |  |

· Other hazards No further relevant information available.

### **3 Composition/information on ingredients**

- · Chemical characterization: Mixtures
- Description: Mixture of organic and inorganic compounds
- Composition and Information on Ingredients:

Percent ranges are used due to the confidential product information.

| 5   |  |         |  |
|---|--|---------|--|
| CAS: 9004-34-6  | cellulose  | 2.5–5%  |  |
| EINECS: 232-674-9   |  |         |  |
| RTECS: FJ5691460  |  |         |  |
| CAS: 7722-64-7  | potassium permanganate   | 1–<2.5% |  |
| EINECS: 231-760-3   | 🚸 Oxidizing Solids 2, H272; 🚸 Toxic to Reproduction 2, H361; Specific Target Organ |         |  |
| Index number: 025-002-00-9  | Toxicity - Repeated Exposure 2, H373; 🔶 Skin Corrosion 1C, H314; 🚯 Aquatic Acute   |         |  |
| RTECS: SD 6475000   | 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10); 🕧 Acute Toxicity - Oral 4, H302    |         |  |
| Additional information: For the wording of the listed hazard phrases refer to section 16. |  |         |  |

### 4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:
- Immediately rinse with plenty of water.
- If skin irritation continues, consult a doctor.
- After eye contact: Rinse opened eye for several minutes (at least 15 min) under running water. Then consult a doctor.
- After swallowing:
- Rinse out mouth and then drink 1-2 glasses of water.
- If symptoms persist consult doctor.

### Most important symptoms and effects, both acute and delayed

- irritations
- after swallowing of large amounts:
- gastric or intestinal disorders
- sickness
- vomiting
- cardiovascular disorders
- $\cdot$  Danger: Danger of disturbed cardiac rhythm.
- · Indication of any immediate medical attention and special treatment needed: No further relevant information available.

### **5** Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture
- The product is not combustible.
- Formation of toxic gases is possible during heating or in case of fire.
- In case of fire, the following can be released:
- Hydrogen chloride (HCI)
- Potassium oxide
- Advice for firefighters
- · Protective equipment:
- Wear self-contained respiratory protective device.

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- Wear fully protective suit.
- Additional information
- Collect contaminated fire fighting water separately. It must not enter the sewage system. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
- Ambient fire may liberate hazardous vapours.

### 6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
   Advice for non-emergency personnel: Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation
   Advice for emergency responders: Protective equipment: see section 8
- · Environmental precautions:
- Do not allow product to reach sewage system or any water course.
- Inform respective authorities in case of seepage into water course or sewage system.
- Methods and material for containment and cleaning up:
- Ensure adequate ventilation.
- Pick up mechanically.
- Dispose contaminated material as waste according to section 13.

### Reference to other sections

- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

### 7 Handling and storage

- · Precautions for safe handling
- · Advice on safe handling: No special precautions are necessary if used correctly.
- · Hygiene measures:
- Do not get in eyes, on skin, or on clothing.
- Take off immediately all contaminated clothing.
- Store protective clothing separately.
- Wash hands before breaks and at the end of work.
- Do not eat, drink or smoke when using this product.
- · Conditions for safe storage, including any incompatibilities
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- Information about storage in one common storage facility:
- Do not store together with acids. Store away from oxidizing agents.
- Further information about storage conditions:
- Store locked up or with access restricted to technical experts or their assistants.
- Ensure that persons do not handle until all safety precautions have been read and understood.
- Protect from heat and direct sunlight.
- Protect from exposure to the light.
- Store in dry conditions.
- Protect from humidity and water.
- · Recommended storage temperature: 20°C +/- 5°C (approx. 68°F)
- · Specific end use(s) No further relevant information available.

### 8 Exposure controls/personal protection

### · Control parameters

| · Components with limit values that require monitoring at the workplace: |   |  |  |
|--|---|--|--|
| CAS: 9004-34-6 cellulose   |   |  |  |
| PEL (USA)  | Long-term value: 15* 5** mg/m³<br>*total dust **respirable fraction |  |  |
| REL (USA)  | Long-term value: 10* 5** mg/m³<br>*total dust **respirable fraction |  |  |
|  | (Contd. on page 4)  |  |  |

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|---|--|--|--|
| · ·   | Long-term value: 10 mg/m <sup>3</sup>  |  |  |
| EL (Canada)   | Long-term value: 10* 3** mg/m³<br>*total dust, **respirable fraction   |  |  |
| EV (Canada)   | Long-term value: 10 mg/m³<br>paper fibre, total dust   |  |  |
| CAS: 7722-64  | 4-7 potassium permanganate   |  |  |
| PEL (USA)   | Ceiling limit value: 5 mg/m³<br>as Mn  |  |  |
| REL (USA)   | Short-term value: 3 mg/m³<br>Long-term value: 1 mg/m³<br>as Mn   |  |  |
| TLV (USA)   | Long-term value: 0.02* 0.1** mg/m³<br>as Mn; A4, *respirable **inhalable fraction  |  |  |
| EL (Canada)   | Long-term value: 0.2; 0.02* mg/m³<br>as Mn; R, *respirable   |  |  |
| · Additional in   | formation: The lists that were valid during the creation were used as basis.   |  |  |
| • <b>Engineering</b><br>Technical mea<br>See item 7.  | <b>measures:</b><br>asures and appropriate working operations should be given priority over the use of personal protective equipment.  |  |  |
| substances ha<br><b>Breathing eq</b><br>Under normal<br>If exposure lin<br>dust/aerosol.<br>Use respirator  | <b>uipment:</b><br>I use conditions according to the instruction manual no personal protective equipment is needed.<br>nits are exceeded or health impacts are experienced use respiratory protective device against the effects of fume/<br>ry protective device against the effects of fume/dust/aerosol.<br><b>ed filter device for short term use:</b> Filter P3 |  |  |
| Protective gloves<br>Preventive skin protection by use of skin-protecting agents is recommended.<br>After use of gloves apply skin-cleaning agents and skin cosmetics.<br>• Material of gloves<br>Nitrile rubber, NBR |  |  |  |
| Recommende<br>Penetration t   | ed thickness of the material: ≥ 0.11 mm<br>t <b>ime of glove material</b>  |  |  |
| Value for the permeation: Level ≤ 1 (10 min)<br>The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.<br>• <b>Eye protection:</b><br>Safety glasses   |  |  |  |
| Use protective goggles that have been tested and approved in accordance with government standards (like NIOSH).<br>• Body protection: Protective work clothing  |  |  |  |
|   | nd supervision of exposure into the environment:<br>product to reach sewage system or any water course.  |  |  |
|   | nd chemical properties   |  |  |
| <ul> <li>Information of</li> </ul>  | on basic physical and chemical properties  |  |  |

| · information on basic physical and chemical   | properties                      |
|--|---------------------------------|
| · Appearance:                                  |                                 |
| <ul> <li>Form / Physical state:</li> </ul>     | Tablets                         |
| · Color:                                       | Brown                           |
| · Odor:  | Odorless                        |
| · Odor threshold:                              | Not applicable.                 |
| • pH-value (2.6 g/l) at 20°C (68°F):           | 9.1                             |
| Melting point/freezing point:                  | Not determined.                 |
| Initial boiling point and boiling range:       | Not determined.                 |
| Flash point:                                   | Not applicable.                 |
| <ul> <li>Flammability (solid, gas):</li> </ul> | The product is not combustible. |
| Auto igniting:                                 | Not applicable (solid).         |
|  |                                 |

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|--|--|--------------------|
| · Decomposition temperature:                                 | Not determined.  |                    |
| Auto-ignition temperature:                                   | Product is not self-igniting.                              |                    |
| Danger of explosion:   | Product does not present an explosion hazard.              |                    |
| Flammability or explosive limits:                            |  |                    |
| Lower:   | Not applicable.  |                    |
| Upper:   | Not applicable.  |                    |
| <ul> <li>Oxidizing properties:</li> </ul>                    | none   |                    |
| Vapor Pressure:  | Not applicable.  |                    |
| <ul> <li>Density at 20°C (68°F):</li> </ul>                  | ~ 2 g/cm³ (~ 16.69 lbs/gal)                                |                    |
| Relative density:  | Not determined.  |                    |
| · Vapor density:   | Not applicable.  |                    |
| Evaporation rate:  | Not applicable.  |                    |
| · Solubility(ies)  |  |                    |
| · Water:   | Partially insoluble.                                       |                    |
| <ul> <li>Partition coefficient (n-octanol/water):</li> </ul> | Not applicable (mixture).                                  |                    |
| · Viscosity:   | Not applicable.  |                    |
| · Kinematic:   | Not applicable (solid).                                    |                    |
| <ul> <li>Other information</li> </ul>                        |  |                    |
| · Solids content:  | 100 %  |                    |
| · Information with regard to physical hazard cl              | asses  |                    |
| · Corrosive to metals  | Based on available data, the classification criteria are r | not met.           |

### 10 Stability and reactivity

- Reactivity see section "Possibility of hazardous reactions"
- · Chemical stability Stable at ambient temperature (room temperature).
- Possibility of hazardous reactions
- Reacts with acids. Reacts with oxidizing agents.
- --> Forms heat.
- Reacts with ammonia (NH<sub>3</sub>).
- · Conditions to avoid Strong heating (decomposition)
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: see section 5

### 11 Toxicological information

### · Information on toxicological effects

- · Acute toxicity: Based on available data, the classification criteria are not met.
- LD/LC50 values that are relevant for classification:
- The following statements refer to the individual components.

| CAS: 9004  | 4-34-6 cel | lulose  |
|------------|------------|---|
| Oral       | LD50.      | >5000 mg/kg (rat)   |
| Dermal     | LD50.      | >2000 mg/kg (rabbit)<br>(RTECS, limit test)   |
| Inhalative | LC50/4h    | >5.8 mg/l /4h (rat)   |
| CAS: 7722  | 2-64-7 pot | tassium permanganate  |
| Oral       | LD50       | 750 mg/kg (rat)<br>(RTECS)  |
|            | LDLo       | 100 mg/kg (human)<br>(IUCLID)   |
| Dermal     | LD50.      | >2000 mg/kg (rat) (OECD 402)<br>(ECHA; no death of animals at this concentration, limit test) |

### Primary irritant effect:

· on the skin: Causes skin irritation.

on the eye:

Causes serious eye irritation.

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| Risk of corn   | eal cloudir  | na.  |   |  |
|--|--|--|---|--|
| · Information  |  | -  |   |  |
| CAS: 9004-   | -  |  | 5.  |  |
|  |  |  | (rabbit: no irritation)   |  |
|  |  |  | (rabbit: no irritation)   |  |
|  | -  |  | permanganate  |  |
|  | -  | -  | (rabbit: burns)   |  |
|  |  | (  | (Merck / Burns after prolonged exposure.)   |  |
| Sonsitizatio   | n: Based   | on avail   | ilable data, the classification criteria are not met.   |  |
| · Information  |  |  | · ·   |  |
| CAS: 9004-   |  |  | 5.  |  |
|  |  |  | uinea pig: negative)  |  |
|  |  |  | permanganate  |  |
|  | -  | -  | uinea pig: negative)  |  |
|  |  |  | uinea pig. negative)  |  |
| · Carcinogen   | -  |  |   |  |
|  |  |  | for Research on Cancer)   |  |
| CAS: 999-99  |  |  | ingredient(s)   | 10   |
|  |  |  | classifiable as to carcinogenicity to humans  |  |
| · NTP (Natio   |  |  | -   |  |
| None of the  | ingredient   | s is liste   | ed.   |  |
| · OSHA-Ca (  | Occupatio  | nal Saf  | fety & Health Administration)   |  |
| None of the  | ingredient   | s is liste   | ed.   |  |
| · Other infor  | mation: se   | e sectio   | ion 8 / 15  |  |
| The followin<br>Toxic to Rep   | s (carcino<br>g stateme<br>production  | <b>genity,</b><br>nts refer<br>2   | , <b>mutagenicity and toxicity for reproduction):</b><br>or to the mixture:   |  |
| • CMR effects<br>The followin<br>Toxic to Rep<br>• Germ cell n<br>• Carcinogen<br>• Reproducti   | s (carcino<br>g stateme<br>production<br>nutagenic<br>nicity Base<br>ve toxicity   | <b>genity,</b><br>nts refer<br>2<br>ity Base<br>ed on av<br>y Suspe  | , mutagenicity and toxicity for reproduction):<br>er to the mixture:<br>wed on available data, the classification criteria are not met.<br>vailable data, the classification criteria are not met.<br>ected of damaging fertility or the unborn child.  | ro not mot   |
| • CMR effects<br>The followin<br>Toxic to Rep<br>• Germ cell n<br>• Carcinogen<br>• Reproducti<br>• STOT (spec<br>• STOT (spec   | s (carcino<br>g stateme<br>production<br>nutagenic<br>nicity Base<br>ve toxicity<br>cific targe<br>cific targe   | ogenity,<br>nts refer<br>2<br>ity Base<br>ed on av<br>y Suspe<br>t organ<br>t organ  | , <b>mutagenicity and toxicity for reproduction):</b><br>Fr to the mixture:<br>Fred on available data, the classification criteria are not met.<br>Vailable data, the classification criteria are not met.  | re not met.  |
| • CMR effects<br>The followin<br>Toxic to Rep<br>• Germ cell n<br>• Carcinogen<br>• Reproducti<br>• STOT (spec<br>May cause of   | s (carcino<br>g stateme<br>production<br>nutagenic<br>nicity Base<br>ve toxicity<br>cific targe<br>cific targe<br>damage to  | ogenity,<br>nts refer<br>2<br>ity Base<br>ed on av<br>y Suspe<br>t organ<br>t organ<br>the brai  | , mutagenicity and toxicity for reproduction):<br>er to the mixture:<br>we on available data, the classification criteria are not met.<br>vailable data, the classification criteria are not met.<br>ected of damaging fertility or the unborn child.<br>In toxicity) -single exposure Based on available data, the classification criteria and<br>toxicity) -repeated exposure   | re not met.  |
| • CMR effects<br>The followin<br>Toxic to Rep<br>• Germ cell n<br>• Carcinogen<br>• Reproducti<br>• STOT (spec<br>May cause of   | s (carcino<br>g stateme<br>production<br>nutagenic<br>nicity Base<br>ve toxicity<br>cific targe<br>cific targe<br>damage to<br>hazard Ba   | genity,<br>nts refer<br>2<br>ity Base<br>ad on av<br>y Suspe<br>t organ<br>t organ<br>the brai<br>ised on a  | <ul> <li>mutagenicity and toxicity for reproduction):</li> <li>ar to the mixture:</li> <li>are on available data, the classification criteria are not met.</li> <li>available data, the classification criteria are not met.</li> <li>acted of damaging fertility or the unborn child.</li> <li>a toxicity) -single exposure Based on available data, the classification criteria are not met.</li> <li>a toxicity) -repeated exposure</li> <li>ain through prolonged or repeated exposure. Route of exposure: Inhalation.</li> <li>available data, the classification criteria are not met.</li> </ul>   | re not met.  |
| CMR effects<br>The followin<br>Toxic to Rep<br>Germ cell n<br>Carcinogen<br>Reproducti<br>STOT (spec<br>May cause of<br>Aspiration I<br>Information  | s (carcino<br>g stateme<br>production<br>nutagenic<br>nicity Base<br>ve toxicity<br>cific targe<br>cific targe<br>damage to<br>hazard Ba<br>n on comp  | genity,<br>nts refer<br>2<br>ity Base<br>d on av<br>y Suspe<br>t organ<br>t organ<br>the brai<br>ised on a<br>ponents  | <ul> <li>mutagenicity and toxicity for reproduction):</li> <li>ar to the mixture:</li> <li>are on available data, the classification criteria are not met.</li> <li>available data, the classification criteria are not met.</li> <li>acted of damaging fertility or the unborn child.</li> <li>a toxicity) -single exposure Based on available data, the classification criteria are not met.</li> <li>a toxicity) -repeated exposure</li> <li>ain through prolonged or repeated exposure. Route of exposure: Inhalation.</li> <li>available data, the classification criteria are not met.</li> </ul>   | re not met.  |
| CMR effects<br>The followin<br>Toxic to Rep<br>Germ cell n<br>Carcinogen<br>Reproducti<br>STOT (spec<br>STOT (spec<br>May cause of<br>Aspiration<br>CAS: 7722-<br>OECD 471   | s (carcino<br>g stateme<br>production<br>nutagenic<br>nicity Base<br>ve toxicity<br>cific targe<br>damage to<br>hazard Ba<br>n on comp<br>64-7 pota<br>(negative<br>(Escherich   | genity,<br>nts refer<br>2<br>ity Base<br>d on av<br>y Suspe<br>t organ<br>the brai<br>used on<br>seidents<br>ssium p<br>) (Bacte<br>nia col i/   | <ul> <li>mutagenicity and toxicity for reproduction):</li> <li>er to the mixture:</li> <li>weed on available data, the classification criteria are not met.</li> <li>vailable data, the classification criteria are not met.</li> <li>ected of damaging fertility or the unborn child.</li> <li>toxicity) -single exposure Based on available data, the classification criteria are toxicity) -repeated exposure</li> <li>ain through prolonged or repeated exposure. Route of exposure: Inhalation.</li> <li>available data, the classification criteria are not met.</li> <li>erial Reverse Mutation Test - Ames test)</li> <li>/ Salmonella typhimurium)</li> </ul>  | re not met.  |
| CMR effects<br>The followin<br>Toxic to Rep<br>Germ cell n<br>Carcinogen<br>Reproducti<br>STOT (spec<br>STOT (spec<br>May cause of<br>Aspiration<br>CAS: 7722-<br>OECD 471   | s (carcino<br>g stateme<br>production<br>nutagenic<br>nicity Base<br>ve toxicity<br>cific targe<br>damage to<br>hazard Ba<br>n on comp<br>64-7 pota<br>(negative<br>(Escherich   | genity,<br>nts refer<br>2<br>ity Base<br>d on av<br>y Suspe<br>t organ<br>the brai<br>used on<br>seidents<br>ssium p<br>) (Bacte<br>nia col i/   | <ul> <li>mutagenicity and toxicity for reproduction):</li> <li>er to the mixture:</li> <li>ered on available data, the classification criteria are not met.</li> <li>vailable data, the classification criteria are not met.</li> <li>ected of damaging fertility or the unborn child.</li> <li>a toxicity) -single exposure Based on available data, the classification criteria are not in through prolonged or repeated exposure. Route of exposure: Inhalation.</li> <li>available data, the classification criteria are not met.</li> <li>s:</li> <li>permanganate</li> <li>erial Reverse Mutation Test - Ames test)</li> </ul>  | re not met.  |
| CMR effects<br>The followin<br>Toxic to Rep<br>Germ cell n<br>Carcinogen<br>Reproducti<br>STOT (spec<br>May cause of<br>Aspiration 1<br>Information<br>CAS: 7722-<br>OECD 471<br>OECD 476<br>OECD 474  | s (carcino<br>g stateme<br>production<br>nutagenic<br>nicity Base<br>ve toxicity<br>cific targe<br>damage to<br>hazard Ba<br>non comp<br>64-7 potas<br>(negative<br>(scherich<br>(negative<br>(negative<br>(negative   | genity,<br>nts refer<br>2<br>ity Base<br>d on av<br>y Suspe<br>t organ<br>the brai<br>used on a<br>source<br>ssium p<br>) (Bacte<br>nia col i/<br>) (In Vitr<br>) (Mamr  | <ul> <li>mutagenicity and toxicity for reproduction):</li> <li>er to the mixture:</li> <li>weed on available data, the classification criteria are not met.</li> <li>vailable data, the classification criteria are not met.</li> <li>ected of damaging fertility or the unborn child.</li> <li>toxicity) -single exposure Based on available data, the classification criteria are toxicity) -repeated exposure</li> <li>ain through prolonged or repeated exposure. Route of exposure: Inhalation.</li> <li>available data, the classification criteria are not met.</li> <li>erial Reverse Mutation Test - Ames test)</li> <li>/ Salmonella typhimurium)</li> </ul>  | re not met.  |
| CMR effects<br>The followin<br>Toxic to Rep<br>Germ cell n<br>Carcinogen<br>Reproducti<br>STOT (spec<br>May cause of<br>Aspiration 1<br>Information<br>CAS: 7722-<br>OECD 471<br>OECD 476<br>OECD 474  | s (carcino<br>g stateme<br>production<br>nutagenic<br>nicity Base<br>ve toxicity<br>cific targe<br>damage to<br>hazard Ba<br>non comp<br>64-7 potas<br>(negative<br>(negative<br>(negative<br>(negative<br>(Merck: ra  | genity,<br>nts refer<br>2<br>ity Base<br>d on av<br>Suspe<br>t organ<br>t organ<br>the brai<br>sed on a<br>sed on av<br>onents<br>ssium p<br>) (Bacte<br>nia col i/<br>) (In Vitr<br>) (Mamr<br>t, male a  | and the mixture: and toxicity for reproduction): ber to the mixture: and on available data, the classification criteria are not met. available data, the classification criteria are not met. bected of damaging fertility or the unborn child. <b>a toxicity) -single exposure</b> Based on available data, the classification criteria are <b>not met</b> . <b>a toxicity) -repeated exposure</b> anin through prolonged or repeated exposure. Route of exposure: Inhalation. <b>available data, the classification criteria are not met</b> . <b>available data, the classification criteria are not met</b> . <b>available data, the classification criteria are not met</b> . <b>available data, the classification criteria are not met</b> . <b>available data, the classification criteria are not met</b> . <b>available data, the classification criteria are not met</b> . <b>available data, the classification criteria are not met</b> . <b>available data, the classification criteria are not met</b> . <b>available data, the classification criteria are not met</b> . <b>available data, the classification criteria are not met</b> . <b>available data, the classification criteria are not met</b> . <b>available data, the classification criteria are not met</b> . <b>available data, the classification criteria are not met</b> . <b>available data, the classification criteria are not met</b> . <b>available data, the classification criteria are not met</b> . <b>available data, the classification criteria are not met</b> . <b>available data, the classification criteria are not met</b> . <b>available data, the classification criteria are not met</b> . <b>available data, the classification criteria are not met</b> . <b>available data, the classification criteria are not met</b> . <b>available data</b> . <b>b available data</b> . < | re not met.  |
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| <ul> <li>CMR effects<br/>The followin<br/>Toxic to Rep<br/>Germ cell n</li> <li>Carcinogen</li> <li>Germ cell n</li> <li>Carcinogen</li> <li>Reproducti</li> <li>STOT (spector<br/>May cause of<br/>Aspiration 1</li> <li>Information</li> <li>CAS: 7722-1</li> <li>OECD 471</li> <li>OECD 476</li> <li>OECD 474</li> <li>Additional 1</li> <li>CAS: 7722-1</li> <li>(source: C<br/>Main toxic<br/>Acute: cau<br/>chronic: in<br/>indications<br/>general sy</li> <li>Further inf<br/>In the even</li> </ul> | s (carcino<br>g stateme<br>production<br>nutagenic<br>nicity Base<br>ve toxicity<br>cific targe<br>damage to<br>hazard Ba<br>non comp<br>64-7 pota<br>(negative<br>(Bescherich<br>(negative<br>(Merck: ra<br>toxicologi<br>64-7 pota<br>GESTIS)<br>effects:<br>ustic effect<br>s of neurot<br>vstemic eff<br>formation:<br>nt of conta   | genity,<br>nts refer<br>2<br>ity Base<br>d on av<br>Suspe<br>t organ<br>the brai<br>ased on av<br>Suspe<br>t organ<br>the brai<br>ased on av<br>seconents<br>ssium p<br>) (Bacte<br>nia col i/<br>) (In Vitr<br>) (In Vitr<br>) (Mamr<br>t, male a<br>cal info<br>ssium p<br>on skin<br>cects of r   | <pre>, mutagenicity and toxicity for reproduction): r to the mixture:  ded on available data, the classification criteria are not met. vailable data, the classification criteria are not met. ected of damaging fertility or the unborn child. n toxicity) -single exposure Based on available data, the classification criteria are n toxicity) -repeated exposure ain through prolonged or repeated exposure. Route of exposure: Inhalation. available data, the classification criteria are not met. s: permanganate errial Reverse Mutation Test - Ames test) / Salmonella typhimurium) roo Mammalian Cell Gene Mutation Test) malian Erythrocyte Micronucleus Test) and female, oral, bone marrow) ormation: permanganate n and mucous membranes, risk of serious damage to eyes manganese ions: damage to the central nervous system the crystalline substance or concentrated solution, there is a risk of severe chem</pre>  | y damage),<br>iical burns and                      |
| <ul> <li>CMR effects<br/>The followin<br/>Toxic to Rep<br/>Germ cell n</li> <li>Carcinogen</li> <li>Germ cell n</li> <li>Carcinogen</li> <li>Reproducti</li> <li>STOT (spector<br/>May cause of<br/>Aspiration 1</li> <li>Information</li> <li>CAS: 7722-1</li> <li>OECD 471</li> <li>OECD 476</li> <li>OECD 474</li> <li>Additional 1</li> <li>CAS: 7722-1</li> <li>(source: C<br/>Main toxic<br/>Acute: cau<br/>chronic: in<br/>indications<br/>general sy</li> <li>Further inf<br/>In the even</li> </ul> | s (carcino<br>g stateme<br>production<br>nutagenic<br>nicity Base<br>ve toxicity<br>cific targe<br>damage to<br>hazard Ba<br>on comp<br>64-7 pota<br>(negative<br>(Bescherich<br>(negative<br>(Merck: ra<br>toxicologi<br>64-7 pota<br>SESTIS)<br>seffects:<br>ustic effects<br>so f neurot<br>vstemic eff<br>formation:<br>nt of conta<br>reversible  | genity,<br>nts refer<br>2<br>ity Base<br>d on av<br>y Suspe<br>t organ<br>the brai<br>ased on av<br>y Suspe<br>t organ<br>the brai<br>ased on av<br>y Suspe<br>t organ<br>t organ<br>t organ<br>t organ<br>t organ<br>(a col i/<br>) (In Vitr<br>) (Mamr<br>t, male a<br>cal info<br>ssium p<br>on skin<br>perimer<br>oxic effe<br>ects of r<br>ct with t<br>eye dan   | , mutagenicity and toxicity for reproduction):<br>r to the mixture: and toxicity for reproduction: and the classification criteria are not met. and the classification the classification criteria are not met. and the classification the classification the classification criteria are not met. and the classification the classification the classification the classification criteria are not met. and the classification the class   | y damage),<br>iical burns and                      |
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### 12 Ecological information

### Toxicity

A guatia taviait

| · Aquatic toxicity: |  |  |
|---------------------|--|--|
| CAS:                | 7722-64-7 potassium permanganate   |  |
| EC50                | 0.056 mg/l/48h (Daphnia magna)<br>(ECOTOX)   |  |
| EC50                | 0.41 mg/l/72h (Algeal toxicity)<br>(ECOTOX)  |  |
| LC50                | 0.41 mg/l/72h (Algeal toxicity)<br>(ECOTOX)<br>0.1 mg/l/96h (fish)<br>(Ictalurus catus / ECOTOX) |  |

### Other information:

The following applies to manganese ions: toxic to water organisms.

- In flowing waters, depending on the mixture, moderate to high toxic effect.
- · Persistence and degradability No further relevant information available.
- · Bioaccumulative potential
- Pow = n-octanol/wasser partition coefficient

log Pow < 1 = Does not accumulate in organisms.

CAS: 7722-64-7 potassium permanganate

log Pow -1.73 (.) (calculated) (Merck)

· Mobility in soil No further relevant information available.

· Other adverse effects Avoid transfer into the environment.

### 13 Disposal considerations

### · Waste treatment methods

#### · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Hand over to hazardous waste disposers.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

#### 14 Transport information · UN-Number · DOT none · IMDG, IATA UN3077 · UN proper shipping name · DOT none · IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (POTASSIUM PERMANGANATE), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, ·IATA N.O.S. (POTASSIUM PERMANGANATE) · Transport hazard class(es) · DOT · Class none · IMDG, IATA Class 9 Miscellaneous dangerous substances and articles Label 9 (Contd. on page 8)

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|--|--|
| <ul> <li>Packing group</li> <li>DOT</li> <li>IMDG, IATA</li> </ul>   | none<br>III  |
| <ul> <li>Environmental hazards:</li> <li>Marine pollutant:</li> <li>Special marking (IATA):</li> </ul>   | Product contains environmentally hazardous substances:<br>potassium permanganate<br>Symbol (fish and tree)<br>Symbol (fish and tree)   |
| <ul> <li>Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> <li>EMS Number:</li> <li>Segregation groups</li> <li>Stowage Category</li> <li>Stowage Code</li> </ul> | Warning: Miscellaneous dangerous substances and articles<br>90<br>F-A,S-F<br>(SGG14) Permanganates<br>A<br>SW23 When transported in BK3 bulk container, see 7.6.2.12 and<br>7.7.3.9. |
| <ul> <li>Transport in bulk according to Annex II of MARPO<br/>and the IBC Code</li> </ul>  | L73/78<br>Not applicable.  |
| · Transport/Additional information:  |  |
| <ul> <li>IMDG</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>  | 5 kg<br>Code: E1<br>Maximum net quantity per inner packaging: 30 g<br>Maximum net quantity per outer packaging: 1000 g   |

### 15 Regulatory information

| $^{\cdot}$ Safety, health and environmental regulations/legislation specific for the substance or mixture $^{\cdot}$ Sara |          |
|---|----------|
| · Section 355 (Extremely hazardous substances):   |          |
| None of the ingredients is listed.  |          |
| · Section 313 (Specific toxic chemical listings):   |          |
| CAS: 7722-64-7 potassium permanganate   |          |
| · TSCA (Toxic Substances Control Act):  |          |
| All components have the value ACTIVE.   |          |
| · Hazardous Air Pollutants  |          |
| CAS: 7722-64-7 potassium permanganate   |          |
| · Proposition 65  |          |
| · Chemicals known to cause cancer:  |          |
| None of the ingredients is listed.  |          |
| · Chemicals known to cause reproductive toxicity for females:   |          |
| None of the ingredients is listed.  |          |
| · Chemicals known to cause reproductive toxicity for males:   |          |
| None of the ingredients is listed.  |          |
| · Chemicals known to cause developmental toxicity:  |          |
| None of the ingredients is listed.  |          |
| · New Jersey Right-to-Know List:  |          |
| CAS: 9004-34-6 cellulose  |          |
| CAS: 7722-64-7 potassium permanganate   |          |
| · New Jersey Special Hazardous Substance List:  |          |
| None of the ingredients is listed.  |          |
| · Pennsylvania Right-to-Know List:  |          |
| CAS: 9004-34-6 cellulose  |          |
| CAS: 7722-64-7 potassium permanganate   |          |
| (Contd. or  | n page 9 |

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|------------------------|

|  | (Contd. of page 8) |
|--|--------------------|
| Pennsylvania Special Hazardous Substance List:                     |                    |
| CAS: 7722-64-7 potassium permanganate                              | E                  |
| · EPA (Environmental Protection Agency)                            |                    |
| CAS: 7722-64-7 potassium permanganate                              | D                  |
| · NIOSH-Ca (National Institute for Occupational Safety and Health) |                    |
| None of the ingredients is listed.                                 |                    |

### Information about limitation of use:

Observe national regulations where applicable:

Employment restrictions concerning young persons must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### Relevant phrases

H272 May intensify fire; oxidizer.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H361 Suspected of damaging fertility or the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

· Recommended restriction of use: professional/industrial use only

### Version number / date of revision: 27 / 06/28/2024

#### Abbreviations and acronyms:

OECD: Organisation for Economic Co-operation and Development STOT: specific target organ toxicity SE: single exposure RE: repeated exposure EC50: half maximal effective concentration IC50: half maximal inhibitory concentration NOEL or NOEC: No Observed Effect Level or Concentration ACGIH® - American Conference of Governmental Industrial Hygienists •A1 - Confirmed human carcinogen •A2 - Suspected human carcinogen •A3 - Confirmed animal carcinogen with unknown relevance to humans •A4 - Not classifiable as a human carcinogen •A5 - Not suspected as a human carcinogen IARC - International Agency for Research on Cancer •Group 1 - Carcinogenic to humans •Group 2A - Probably carcinogenic to humans •Group 2B - Possibly carcinogenic to humans •Group 3 - Not classifiable as to carcinogenicity to humans •Group 4 - Probably not carcinogenic to humans •Group K - Known to be Human Carcinogens •Group K - Known to be Human Carcinogens •Group R - Reasonably Anticipated to be Human Carcinogens IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Oxidizing Solids 2: Oxidizing solids - Category 2 Acute Toxicity - Oral 4: Acute toxicity – Category 4 Skin Corrosion 1C: Skin corrosion/irritation - Category 1C Skin Irritation 2: Skin corrosion/irritation - Category 2 Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A Toxic to Reproduction 2: Reproductive toxicity – Category 2 Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

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Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

· Sources

Data arise from safety data sheets, reference works and literature. ECOTOX Database IUCLID (International Uniform Chemical Information Database) RTECS (Registry of Toxic Effects of Chemical Substances )

• \* Data compared to the previous version altered.

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