

| Versi<br>4.1 | on Revision Date:<br>30.09.2023                       |      | S Number:<br>3044-00016            | Date of last issue: 04.04.2023<br>Date of first issue: 03.05.2016 |  |  |  |
|--------------|---|------|------------------------------------|---|--|--|--|
| SEC          | TION 1. IDENTIFICATION                                |      |                                    |   |  |  |  |
| I            | Product name  | :    | : Furosemide Solid Formulation     |   |  |  |  |
| I            | Manufacturer or supplier's                            | deta | ils                                |   |  |  |  |
| (            | Company   | :    | MSD                                |   |  |  |  |
| /            | Address   | :    |                                    | 6th floor, Ciudad Autonoma<br>gentina C1013AAP                    |  |  |  |
| -            | Telephone   | :    | 908-740-4000                       |   |  |  |  |
| I            | Emergency telephone                                   | :    | 1-908-423-6000                     |   |  |  |  |
| I            | E-mail address  | :    | EHSDATASTEW                        | /ARD@msd.com  |  |  |  |
| I            | Recommended use of the c                              | hem  | ical and restriction               | ons on use  |  |  |  |
| -            | Recommended use<br>Restrictions on use                | :    | Veterinary produ<br>Not applicable | ct  |  |  |  |
| SEC          | TION 2. HAZARDS IDENTIFI                              | ICAT | ION                                |   |  |  |  |
| (            | GHS Classification                                    |      |                                    |   |  |  |  |
|              | Specific target organ toxicity -<br>repeated exposure | - :  | Category 1 (Kidr                   | ey, Liver)  |  |  |  |
| (            | GHS label elements                                    |      |                                    |   |  |  |  |
| I            | Hazard pictograms                                     | :    |                                    |   |  |  |  |

| auses damage to organs (Kidney, Liver) through pro-<br>or repeated exposure.   |
|--|
| ion:<br>o not breathe dust.<br>ash skin thoroughly after handling.<br>o not eat, drink or smoke when using this product.             |
| <b>se:</b><br>et medical advice/ attention if you feel unwell.<br>II:<br>spose of contents/ container to an approved waste<br>plant. |
|  |



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#### Other hazards which do not result in classification

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin. May form explosive dust-air mixture during processing, handling or other means.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

| Chemical name | CAS-No.   | Concentration (% w/w) |
|---------------|-----------|-----------------------|
| Starch        | 9005-25-8 | >= 50 -< 70           |
| Furosemide    | 54-31-9   | >= 10 -< 20           |
| Cellulose     | 9004-34-6 | >= 1 -< 5             |

#### SECTION 4. FIRST AID MEASURES

| General advice  | : | In the case of accident or if you feel unwell, seek medical<br>advice immediately.<br>When symptoms persist or in all cases of doubt seek medical<br>advice.   |
|---|---|--|
| If inhaled  | : | If inhaled, remove to fresh air.<br>Get medical attention if symptoms occur.   |
| In case of skin contact   | : |  |
| In case of eye contact  | : | If in eyes, rinse well with water.<br>Get medical attention if irritation develops and persists.   |
| If swallowed  | : | If swallowed, DO NOT induce vomiting.<br>Get medical attention if symptoms occur.<br>Rinse mouth thoroughly with water.  |
| Most important symptoms<br>and effects, both acute and<br>delayed | : |  |
| Protection of first-aiders  | : | Dust contact with the eyes can lead to mechanical irritation.<br>First Aid responders should pay attention to self-protection,<br>and use the recommended personal protective equipment<br>when the potential for exposure exists (see section 8). |
| Notes to physician  | : | Treat symptomatically and supportively.  |

#### **SECTION 5. FIRE-FIGHTING MEASURES**

| Suitable extinguishing media             | : | Water spray<br>Alcohol-resistant foam<br>Carbon dioxide (CO2)<br>Dry chemical   |
|--|---|---|
| Unsuitable extinguishing media           | : | None known.   |
| Specific hazards during fire<br>fighting | : | Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. |



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|---------------|---|--|-----|---|---|--|
|               | lazardo<br>icts                                   | ous combustion prod-                                     | :   | Exposure to comb<br>Nitrogen oxides (I<br>Carbon oxides<br>Sulfur oxides<br>Chlorine compour  |   |  |
| 0             | Specific extinguishing meth-<br>ods               |  | :   | Use extinguishing measures that are appropriate to local cir-<br>cumstances and the surrounding environment.<br>Use water spray to cool unopened containers.<br>Remove undamaged containers from fire area if it is safe to do<br>so.<br>Evacuate area. |   |  |
|               | Special protective equipment<br>for fire-fighters |  | :   | : In the event of fire, wear self-contained breathing appara Use personal protective equipment.   |   |  |
| SECT          | ION 6.  | ACCIDENTAL RELE  | ASI | E MEASURES  |   |  |
| tiv           | ive equ   | al precautions, protec-<br>ipment and emer-<br>rocedures | :   |   | ective equipment.<br>ing advice (see section 7) and personal<br>ent recommendations (see section 8).                |  |
| E             | Environ   | mental precautions                                       | :   | Retain and dispos   | akage or spillage if safe to do so.<br>se of contaminated wash water.<br>should be advised if significant spillages |  |
|               |   | s and materials for<br>ment and cleaning up              | :   | container for disp  | <sup>i</sup> dust in the air (i.e., clearing dust surfaces air).  |  |

#### SECTION 7. HANDLING AND STORAGE

| Technical measures      | : | Static electricity may accumulate and ignite suspended dust causing an explosion.                |
|-------------------------|---|--|
|                         |   | Provide adequate precautions, such as electrical grounding<br>and bonding, or inert atmospheres. |
| Local/Total ventilation | : | Use only with adequate ventilation.  |
| Advice on safe handling | : | Do not breathe dust.   |
|                         |   | Do not swallow.  |
|                         |   | Avoid contact with eyes.   |
|                         |   | Avoid prolonged or repeated contact with skin.   |
|                         |   | Wash skin thoroughly after handling.   |

Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items

employed in the cleanup of releases. You will need to

Sections 13 and 15 of this SDS provide information regarding

determine which regulations are applicable.

certain local or national requirements.



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|--------------------|---------------------------|--|---|--|--|--|
|                    |                           | Handle in accordance with good industrial hygiene and<br>practice, based on the results of the workplace exposu<br>assessment<br>Minimize dust generation and accumulation.<br>Keep container closed when not in use.<br>Keep away from heat and sources of ignition.<br>Take precautionary measures against static discharges<br>Do not eat, drink or smoke when using this product.<br>Take care to prevent spills, waste and minimize release<br>environment. |   |  |  |  |
| Conc               | litions for safe storage  | : Keep in properly labeled containers.<br>Store in accordance with the particular national regula  |   |  |  |  |
| Materials to avoid |                           | <ul> <li>Do not store with the following product types:</li> <li>Strong oxidizing agents</li> <li>Self-reactive substances and mixtures</li> <li>Organic peroxides</li> <li>Explosives</li> <li>Gases</li> </ul>   |   |  |  |  |

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

| Components | CAS-No.             | Value type<br>(Form of<br>exposure) | Control parame-<br>ters / Permissible<br>concentration | Basis        |
|------------|---------------------|-------------------------------------|--|--------------|
| Starch     | 9005-25-8           | CMP                                 | 10 mg/m <sup>3</sup>                                   | AR OEL       |
|            | Further information | ation: A4 - Not cl                  | lassifiable as a huma                                  | n carcinogen |
|            |                     | TWA                                 | 10 mg/m <sup>3</sup>                                   | ACGIH        |
| Furosemide | 54-31-9             | TWA                                 | 200 µg/m³  | Internal     |
|            |                     | TWA                                 | OEB 2 (>=100 -<br>1000 ug/m3)                          | Internal     |
| Cellulose  | 9004-34-6           | CMP                                 | 10 mg/m <sup>3</sup>                                   | AR OEL       |
|            |                     | TWA                                 | 10 mg/m <sup>3</sup>                                   | ACGIH        |

| Engineering measures :                    | Use feasible engineering controls to minimize exposure to compound.<br>All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.   |
|---|--|
| Personal protective equipmen              | t  |
| Respiratory protection :<br>Filter type : | If adequate local exhaust ventilation is not available or<br>exposure assessment demonstrates exposures outside the<br>recommended guidelines, use respiratory protection.<br>Particulates type  |
| Hand protection                           |  |
| Material :                                | Chemical-resistant gloves  |
| Eye protection :                          | Wear safety glasses with side shields or goggles.<br>If the work environment or activity involves dusty conditions,<br>mists or aerosols, wear the appropriate goggles.<br>Wear a faceshield or other full face protection if there is a<br>potential for direct contact to the face with dusts, mists, or |



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|         | and body protection<br>ene measures | eye flushing sy<br>working place.<br>When using do<br>Wash contamin<br>The effective o<br>engineering co<br>appropriate de<br>industrial hygie | or laboratory coat.<br>chemical is likely during typical use, provide<br>ystems and safety showers close to the<br>o not eat, drink or smoke.<br>nated clothing before re-use.<br>operation of a facility should include review of<br>introls, proper personal protective equipment,<br>gowning and decontamination procedures,<br>ene monitoring, medical surveillance and the<br>trative controls. |

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance  | : | powder  |
|---|---|---|
| Color   | : | yellow  |
| Odor  | : | No data available   |
| Odor Threshold                                      | : | No data available   |
| рН  | : | No data available   |
| Melting point/freezing point                        | : | No data available   |
| Initial boiling point and boiling range             | : | No data available   |
| Flash point   | : | Not applicable  |
| Evaporation rate                                    | : | No data available   |
| Flammability (solid, gas)                           | : | May form explosive dust-air mixture during processing, handling or other means. |
| Flammability (liquids)                              | : | No data available   |
| Upper explosion limit / Upper<br>flammability limit | : | No data available   |
| Lower explosion limit / Lower<br>flammability limit | : | No data available   |
| Vapor pressure                                      | : | No data available   |
| Relative vapor density                              | : | No data available   |
| Relative density                                    | : | No data available   |
| Density   | : | No data available   |
| Solubility(ies)<br>Water solubility                 | : | No data available   |

## SAFETY DATA SHEET



## **Furosemide Solid Formulation**

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|-----------------------------------|--|--|---|--|
| octa<br>Auto<br>Deco<br>Visc<br>V | tion coefficient: n-<br>nol/water<br>ignition temperature<br>omposition temperature<br>osity<br>'iscosity, kinematic<br>osive properties | <ul> <li>No data avai</li> </ul> | lable<br>lable  |  |
| Mole                              | izing properties<br>ecular weight<br>cle size  | <ul><li>The substand</li><li>Not applicable</li><li>No data avai</li></ul>   |   |  |

### SECTION 10. STABILITY AND REACTIVITY

| Reactivity<br>Chemical stability<br>Possibility of hazardous reac-<br>tions | : | Not classified as a reactivity hazard.<br>Stable under normal conditions.<br>May form explosive dust-air mixture during processing,<br>handling or other means.<br>Can react with strong oxidizing agents. |
|---|---|--|
| Conditions to avoid   | : | Heat, flames and sparks.<br>Avoid dust formation.  |
| Incompatible materials  | : | Oxidizing agents   |
| Hazardous decomposition products  |   | No hazardous decomposition products are known.   |

### SECTION 11. TOXICOLOGICAL INFORMATION

| Information on likely routes of exposure | :    | Inhalation<br>Skin contact<br>Ingestion<br>Eye contact               |
|--|------|--|
| Acute toxicity                           |      |  |
| Not classified based on availa           | ıble | information.   |
| Product:                                 |      |  |
| Acute oral toxicity                      | :    | Acute toxicity estimate: > 5.000 mg/kg<br>Method: Calculation method |
| Components:                              |      |  |
| Starch:                                  |      |  |
| Acute oral toxicity                      | :    | LD50 (Rat): > 5.000 mg/kg  |
| Acute dermal toxicity                    | :    | LD50 (Rabbit): > 2.000 mg/kg   |
|  |      |  |
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|------------------|--|------|---|---|
|                  |  |      |   |   |
|                  | emide:   |      |   |   |
| Acute            | oral toxicity                                    | :    | LD50 (Rat): 2.600   | ) mg/kg   |
|                  |  |      | LD50 (Dog): 2.00  | 0 mg/kg   |
|                  |  |      | LD50 (Rabbit): 80   | 00 mg/kg  |
|                  | toxicity (other routes of istration)             | :    | LD0 (Humans): 6<br>Application Route                      |   |
|                  |  |      | LD50 (Rat): 800 r<br>Application Route                    |   |
| Cellul           | ose:   |      |   |   |
| Acute            | oral toxicity                                    | :    | LD50 (Rat): > 5.0   | 00 mg/kg  |
| Acute            | inhalation toxicity                              | :    | LC50 (Rat): > 5,8<br>Exposure time: 4<br>Test atmosphere: | h   |
| Acute            | dermal toxicity                                  | :    | LD50 (Rabbit): > 2  | 2.000 mg/kg   |
|                  | corrosion/irritation<br>assified based on availa | ble  | information.  |   |
|                  | us eye damage/eye irri                           |      |   |   |
|                  | assified based on availa                         | ble  | information.  |   |
| Comp             | oonents:   |      |   |   |
| Starc            |  |      |   |   |
| Specie<br>Result |  | :    | Rabbit<br>No eye irritation                               |   |
| Respi            | ratory or skin sensitiz                          | atio | on  |   |
| -                | sensitization                                    |      |   |   |

Not classified based on available information.

#### Respiratory sensitization

Not classified based on available information.

### Components:

### Starch:

| Test Type          | : | Maximization Test |
|--------------------|---|-------------------|
| Routes of exposure | : | Skin contact      |
| Species            | : | Guinea pig        |
| Result             | : | negative          |

### Germ cell mutagenicity

Not classified based on available information.



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|----------------------|----------------------------------|----------------------------------|---|
| <u>Com</u>           | ponents:                         |                                  |   |
| <b>Stard</b><br>Geno | <b>ch:</b><br>ptoxicity in vitro | : Test Type: Ba<br>Result: negat | acterial reverse mutation assay (AMES)<br>tive  |
| Furo                 | semide:                          |                                  |   |
| Geno                 | otoxicity in vitro               | : Test Type: Ba<br>Result: negat | acterial reverse mutation assay (AMES)<br>tive  |
|                      |                                  |                                  | vitro mammalian cell gene mutation test<br>mouse lymphoma cells<br>ve   |
|                      |                                  | thesis in man                    | NA damage and repair, unscheduled DNA syn-<br>nmalian cells (in vitro)<br>mammalian liver cells<br>tive             |
|                      |                                  |                                  | hromosome aberration test in vitro<br>Chinese hamster ovary cells<br>ve   |
|                      |                                  | malian cells                     | vitro sister chromatid exchange assay in mam-<br>Chinese hamster cells<br>tive                                      |
| Gend                 | otoxicity in vivo                | cytogenetic a<br>Species: Mou    | use<br>coute: Ingestion   |
|                      |                                  | cytogenetic to<br>Species: Chi   | utagenicity (in vivo mammalian bone-marrow<br>est, chromosomal analysis)<br>nese hamster<br>oute: Ingestion<br>tive |
| Cellu                | ılose:                           |                                  |   |
| Geno                 | ptoxicity in vitro               | : Test Type: Ba<br>Result: negat | acterial reverse mutation assay (AMES)<br>iive  |
|                      |                                  | Test Type: In<br>Result: negat   | vitro mammalian cell gene mutation test<br>tive   |
| Geno                 | otoxicity in vivo                | cytogenetic a<br>Species: Mou    | use coute: Ingestion  |





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|-------------|-------------|--|-----|--|---|
|             | Carcin      | nogenicity                                   |     |  |   |
|             | Not cla     | assified based on availa                     | ble | information.   |   |
|             | <u>Comp</u> | onents:                                      |     |  |   |
|             | Furos       | emide:                                       |     |  |   |
|             |             | ation Route<br>ure time<br>L                 | : : | Rat<br>Ingestion<br>104 weeks<br>16 mg/kg body<br>equivocal  | weight  |
|             |             | ation Route<br>ure time<br>L                 | :   | Mouse<br>Ingestion<br>2 Years<br>91 mg/kg body<br>positive   | weight  |
|             | Cellul      | ose:   |     |  |   |
|             |             | ation Route<br>ure time                      |     | Rat<br>Ingestion<br>72 weeks<br>negative   |   |
|             | -           | ductive toxicity<br>assified based on availa | ble | information.   |   |
|             | <u>Comp</u> | onents:                                      |     |  |   |
|             | Furos       | emide:                                       |     |  |   |
|             | Effects     | s on fertility                               | :   | Species: Rat<br>Application Rou<br>General Toxicit   | e-generation reproduction toxicity study<br>ute: Ingestion<br>y Parent: NOAEL: 90 mg/kg body weight<br>cts on reproduction parameters.                                |
|             |             |  |     | Species: Mouse<br>Application Rou<br>General Toxicit   |   |
|             | Effects     | s on fetal development                       | :   | Species: Rat<br>Application Rou<br>General Toxicit<br>Developmental<br>Result: No emb<br>Test Type: Fert | y Maternal: LOAEL: 50 mg/kg body weight<br>Toxicity: NOAEL: 300 mg/kg body weight<br>rryotoxic effects., No teratogenic effects.<br>ility/early embryonic development |
|             |             |  |     |  |   |



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|             |  |      | Species: Rabbi<br>Application Rou<br>General Toxicit<br>Developmental  |   |
|             |  |      | Species: Rabbi<br>Application Rou<br>General Toxicit                   |   |
| Cellul      | ose.   |      |  |   |
|             | s on fertility                               | :    | Test Type: One<br>Species: Rat<br>Application Rou<br>Result: negative  |   |
| Effects     | s on fetal development                       | :    | Test Type: Fert<br>Species: Rat<br>Application Rou<br>Result: negative |   |
|             | -single exposure<br>assified based on availa | blo  | information  |   |
|             | -repeated exposure                           | DIE  | information.   |   |
|             | • •  | idne | ey, Liver) through   | prolonged or repeated exposure.   |
|             | onents:                                      |      |  |   |
|             | emide:                                       |      |  |   |
| Routes      | s of exposure<br>Organs                      | :    |  | ice significant health effects in animals at cor<br>0 mg/kg bw or less. |
| Repea       | nted dose toxicity                           |      |  |   |
| <u>Comp</u> | onents:                                      |      |  |   |
| Starch      | ו:   |      |  |   |
|             |  | :    | Rat<br>>= 2.000 mg/kg<br>Skin contact<br>28 Days                       | I   |

### Furosemide:



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| Expos                  | EL<br>EL<br>sution Route<br>sure time<br>t Organs<br>toms | : Dog<br>: 4 mg/kg<br>: 8 mg/kg<br>: Ingestion<br>: 12 Months<br>: Kidney<br>: Blood disord<br>: Significant to | ers<br>oxicity observed in testing   |
| Expos                  | es  | : Rat<br>: >= 9.000 mg<br>: Ingestion<br>: 90 Days  | ı/kg   |
| -                      | assified based on ava                                     | ilable information.   |  |
| Expe                   | rience with human e                                       | cposure   |  |
| Comp                   | oonents:  |   |  |
| Inhala<br>Skin o       | contact<br>ontact   | : Remarks: M<br>: Remarks: M<br>: Symptoms:<br>ance, dry me   | ay be harmful if inhaled.<br>ay irritate skin.<br>ay cause eye irritation.<br>Kidney disorders, Headache, electrolyte imbal-<br>buth, hearing loss, Irregular cardiac activity, Gas-<br>disturbance, hypotension |
| SECTION                | 12. ECOLOGICAL IN   | FORMATION   |  |
| Fcoto                  | oxicity   |   |  |
|                        | oonents:  |   |  |
| Furos                  | semide:<br>ity to fish                                    | : LC50 : 500 r<br>Exposure tir  |  |
| <b>Cellu</b><br>Toxici | <b>lose:</b><br>ity to fish                               | Exposure tir  | as latipes (Japanese medaka)): > 100 mg/l<br>ne: 48 h<br>ased on data from similar materials   |
| Persi                  | stence and degradab                                       | bility  |  |
| Comp                   | oonents:  |   |  |
| <b>Cellu</b><br>Biode  | <b>lose:</b><br>gradability                               | : Result: Read  | dily biodegradable.  |
|                        |   |   |  |



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|---------------|--------------------|---|--|--|
| В             | Bioacc             | umulative potential                           |  |  |
| <u>C</u>      | Compo              | onents:                                       |  |  |
| Р             | Partitio           | e <b>mide:</b><br>n coefficient: n-<br>/water | : log Pow: 2,03                        |  |
|               |                    | r <b>y in soil</b><br>a available             |  |  |
|               |                    | adverse effects<br>a available                |  |  |
| SECT          | TION 1             | 3. DISPOSAL CONSI                             | DERATIONS                              |  |
| D             | Dispos             | al methods                                    |  |  |
|               | -                  | from residues                                 |  | of waste into sewer.   |
| С             | Contan             | ninated packaging                             | : Empty container<br>handling site for | cordance with local regulations.<br>s should be taken to an approved waste<br>recycling or disposal.<br>specified: Dispose of as unused product. |
| SECT          | TION 1             | 4. TRANSPORT INFO                             | RMATION                                |  |
| l.            | ntorna             | tional Regulations                            |  |  |
|               | JNRTE              | -   |  |  |
| -             |                    | julated as a dangerous                        | s good                                 |  |
|               | ATA-D              | OGR<br>julated as a dangerous                 | s good                                 |  |
|               | MDG-0<br>Not reg   | <b>Code</b><br>julated as a dangerous         | s good                                 |  |
|               | -                  | oort in bulk according                        |  | POL 73/78 and the IBC Code   |
|               | •                  | I precautions for use                         | er                                     |  |
| SECT          | TION 1             | 5. REGULATORY INF                             | FORMATION                              |  |
|               | Safety,<br>nixtur  |   | nental regulations/le                  | gislation specific for the substance or  |
|               | Argenti<br>Registr | na. Carcinogenic Sub<br>y.                    | stances and Agents                     | : Not applicable   |
|               |                    | of precursors and ess<br>ation of drugs.      | sential chemicals for th               | e : Not applicable   |

The ingredients of this product are reported in the following inventories: AICS : not determined



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|-------------|--|--|------|---------------------------------------|--|
|             |  |  |      |                                       |  |
|             | DSL  |  | :    | not determined                        |  |
|             | IECSC  |  | :    | not determined                        |  |
| SEC         | TION 1   | 6. OTHER INFORMAT                            | ΓΙΟΙ | N                                     |  |
|             | Revisic<br>Date fo   |  | :    | 30.09.2023<br>dd.mm.yyyy              |  |
|             | Furthe   | r information                                |      |                                       |  |
|             | Source   | s of key data used to<br>the Material Safety | :    |                                       | data, data from raw material SDSs, OECD<br>arch results and European Chemicals Agen-<br>ropa.eu/ |
|             | Full tex   | xt of other abbreviation                     | ons  |                                       |  |
|             | ACGIH<br>AR OE   |  | :    |                                       | eshold Limit Values (TLV)<br>ational Exposure Limits   |
|             |  | / TWA<br>L / CMP                             | :    | 8-hour, time-weig<br>TLV (Threshold L |  |
|             | AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport b<br>Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR<br>Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for<br>Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated wit<br>x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule<br>ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated wit<br>x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized Sys<br>tem; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA<br>- International Air Transport Association; IBC - International Code for the Construction an<br>Equipment of Ships carrying Dangerous Chemicals in Bulk: IC50 - Half maximal inhibitory cor |  |      |                                       |  |

Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China: IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System



| Version | Revision Date: | SDS Number:  | Date of last issue: 04.04.2023  |
|---------|----------------|--------------|---------------------------------|
| 4.1     | 30.09.2023     | 658044-00016 | Date of first issue: 03.05.2016 |

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