according to the OSHA Hazard Communication Standard



## **Tricaine Mesylate**

| Version | Revision Date: | SDS Number:   | Date of last issue: 04/04/2023  |
|---------|----------------|---------------|---------------------------------|
| 4.1     | 09/30/2023     | 4834862-00010 | Date of first issue: 09/10/2019 |

#### **SECTION 1. IDENTIFICATION**

| Product name<br>Product code           |      | Tricaine Mesylate<br>3-Ethoxycarbonylanilinium methanesulphonate,Tricaine |
|--|------|---|
| Manufacturer or supplier's             | deta | ails  |
| Company name of supplier               | :    | Merck & Co., Inc  |
| Address                                | :    | 126 E. Lincoln Avenue   |
|  |      | Rahway, New Jersey U.S.A. 07065   |
| Telephone                              | :    | 908-740-4000  |
| Emergency telephone                    | :    | 1-908-423-6000  |
| E-mail address                         | :    | EHSDATASTEWARD@merck.com  |
| Recommended use of the c               | her  | nical and restrictions on use   |
| Recommended use<br>Restrictions on use | :    | Veterinary product<br>Not applicable                                      |
|  | •    |   |

### **SECTION 2. HAZARDS IDENTIFICATION**

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Combustible dust

#### **GHS** label elements

| Signal Word       | : | Warning  |
|-------------------|---|--|
| Hazard Statements | : | If small particles are generated during further processing, han-<br>dling or by other means, may form combustible dust concentra-<br>tions in air. |

#### Other hazards

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Substance / Mixture | : Substance                                   |
|---------------------|---|
| Substance name      | : 3-Ethoxycarbonylanilinium methanesulphonate |
| CAS-No.             | : 886-86-2                                    |

#### Components

| CAS-No.  | Concentration (% w/w) |
|----------|-----------------------|
| 886-86-2 | >= 90 - <= 100        |
|          |                       |
|          |                       |

Actual concentration is withheld as a trade secret

### **SECTION 4. FIRST AID MEASURES**

according to the OSHA Hazard Communication Standard



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|-------------------------|--|--|---|--|--|--|
| Gene                    | eral advice  | advice immed   | f accident or if you feel unwell, seek medical<br>diately.<br>oms persist or in all cases of doubt seek medical   |  |  |  |
| lf inh                  | aled   | ,  | If inhaled, remove to fresh air.<br>Get medical attention if symptoms occur.  |  |  |  |
| In case of skin contact |  | : Wash with wa   | Wash with water and soap.<br>Get medical attention if symptoms occur.   |  |  |  |
| 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,<br>Get medical a                               | If swallowed, DO NOT induce vomiting.<br>Get medical attention if symptoms occur.<br>Rinse mouth thoroughly with water.   |  |  |  |
| and e<br>delay<br>Prote | important symptoms<br>effects, both acute and<br>yed<br>ection of first-aiders<br>s to physician | : Contact with<br>the skin.<br>Dust contact<br>: No special pr | dust can cause mechanical irritation or drying of<br>with the eyes can lead to mechanical irritation.<br>ecautions are necessary for first aid responders.<br>matically 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 fighting          | : | Avoid generating dust; fine dust dispersed in air in sufficient<br>concentrations, and in the presence of an ignition source is a<br>potential dust explosion hazard.<br>Exposure to combustion products may be a hazard to health.                     |
| Hazardous combustion prod-<br>ucts             | : | Carbon oxides   |
| 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 for fire-fighters | : | Wear self-contained breathing apparatus for firefighting if necessary.<br>Use personal protective equipment.  |

### SECTION 6. ACCIDENTAL RELEASE MEASURES

| Personal precautions, protec-<br>tive equipment and emer-<br>gency procedures | : | Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8). |
|---|---|--|
| Environmental precautions   | : | Avoid release to the environment.<br>Prevent further leakage or spillage if safe to do so.                     |



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|----------------|--|---|--|
| Meth           | ods and materials for<br>ainment and cleaning up | Retain and dispo<br>Local authorities<br>cannot be conta<br>: Sweep up or vac<br>container for dis<br>Avoid dispersal<br>with compressed<br>Dust deposits sh<br>surfaces, as the<br>released into the<br>Local or nationa<br>disposal of this r<br>employed in the<br>determine which | ose of contaminated wash water.<br>a should be advised if significant spillages<br>ined.<br>cuum up spillage and collect in suitable<br>posal.<br>of dust in the air (i.e., clearing dust surfaces<br>d air).<br>nould not be allowed to accumulate on<br>se may form an explosive mixture if they are<br>e atmosphere in sufficient concentration.<br>I regulations may apply to releases and<br>material, as well as those materials and items<br>cleanup of releases. You will need to<br>n regulations are applicable. |
|                |  |   | I 15 of this SDS provide information regarding national requirements.  |

### SECTION 7. HANDLING AND STORAGE

| Technical measures          | <ul> <li>Static electricity may accumulate and ignite suspended dust<br/>causing an explosion.</li> <li>Provide adequate precautions, such as electrical grounding<br/>and bonding, or inert atmospheres.</li> </ul> |
|-----------------------------|--|
| Local/Total ventilation     | : Use only with adequate ventilation.  |
| Advice on safe handling     | : Do not breathe dust.   |
| -                           | Handle in accordance with good industrial hygiene and safety   |
|                             | practice, based on the results of the workplace exposure assessment  |
|                             | Minimize dust generation and accumulation.   |
|                             | Keep container closed when not in use.   |
|                             | Keep away from heat and sources of ignition.   |
|                             | Take precautionary measures against static discharges.   |
|                             | Take care to prevent spills, waste and minimize release to the environment.  |
| Conditions for safe storage | : Keep in properly labeled containers.   |
|                             | Store in accordance with the particular national regulations.  |
| Materials to avoid          | : Do not store with the following product types:<br>Strong oxidizing agents  |

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

| inert or nuisance dust | 50 Million particles per cubic foot<br>Value type (Form of exposure): TWA (total dust)<br>Basis: OSHA Z-3 |  |  |  |  |
|------------------------|---|--|--|--|--|
|                        | 15 mg/m³<br>Value type (Form of exposure): TWA (total dust)<br>Basis: OSHA Z-3                            |  |  |  |  |

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|-----------------|---------------------------------------|---|---|---|-------------|--|
|                 |                                       | 5 mg/m³<br>Value type (Fo<br>Basis: OSHA 2  |   | ): TWA (respirable fra  | ction)      |  |
|                 |                                       |   |   | oot<br>): TWA (respirable fra   | ction)      |  |
| Dust,<br>ticula | nuisance dust and par-<br>tes         | 10 mg/m³<br>Value type (Fo<br>Basis: CAL PE   | orm of exposure   | ): PEL (Total dust)   |             |  |
|                 |                                       | 5 mg/m³<br>Value type (Fo<br>Basis: CAL PE  |   | ): PEL (respirable dus  | t fraction) |  |
| Comp            | ponents                               | CAS-No.   | Value type<br>(Form of<br>exposure)   | Control parame-<br>ters / Permissible<br>concentration                            | Basis       |  |
|                 | oxycarbonylanilinium<br>anesulphonate | 886-86-2  | TWA   | 70 µg/m3 (OEB 3)  | Internal    |  |
| metria          | anesuprioriate                        | Eurther inform  | L<br>ation: Skin, DSE   |   |             |  |
|                 |                                       |   | Wipe limit  | 100 µg/100 cm2  | Internal    |  |
|                 |                                       | are required to<br>the compound<br>containment of   | Containment technologies suitable for controlling compounds<br>are required to control at source and to prevent migration of<br>the compound to uncontrolled areas (e.g., open-face<br>containment devices).<br>Minimize open handling. |   |             |  |
| Perso           | onal protective equipm                | ent   |   |   |             |  |
| Resp            | iratory protection                    | : General and local exhaust ventilation is recommended to<br>maintain vapor exposures below recommended limits. We<br>concentrations are above recommended limits or are<br>unknown, appropriate respiratory protection should be we<br>Follow OSHA respirator regulations (29 CFR 1910.134) a<br>use NIOSH/MSHA approved respirators. Protection prove<br>by air purifying respirators against exposure to any<br>hazardous chemical is limited. Use a positive pressure a<br>supplied respirator if there is any potential for uncontroller<br>release, exposure levels are unknown, or any other<br>circumstance where air purifying respirators may not pro<br>adequate protection. |   | its. Where<br>re<br>be worn.<br>134) and<br>provided<br>sure air<br>ntrolled<br>r |             |  |
| Hand            | protection                            | auequale plui   |   |   |             |  |
| Ma              | aterial                               | : Chemical-resi   | istant gloves   |   |             |  |
|                 | emarks<br>protection                  |   | lasses with side  | e shields or goggles.<br>tivity involves dusty co                                 | onditions,  |  |

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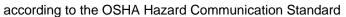


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|--------------------------|------------------------------|---|---|--|--|--|
| Skin and body protection |                              | <ul> <li>mists or aerosols, wear the appropriate goggles.</li> <li>Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.</li> <li>Work uniform or laboratory coat.</li> <li>Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.</li> <li>Use appropriate degowning techniques to remove potentially contaminated clothing.</li> </ul> |   |  |  |  |
| Hygiene measures         |                              | eye flushing sys<br>working place.<br>When using do<br>Wash contamina<br>The effective op<br>engineering con<br>appropriate deg   | hemical is likely during typical use, provide<br>stems and safety showers close to the<br>not eat, drink or smoke.<br>ated clothing before re-use.<br>beration of a facility should include review of<br>strols, proper personal protective equipment,<br>owning and decontamination procedures,<br>ne monitoring, medical surveillance and the<br>rative controls. |  |  |  |

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance  | : | Crystalline powder  |
|---|---|---|
| Color   | : | white   |
| Odor  | : | No data available   |
| Odor Threshold                                      | : | No data available   |
| рН  | : | 4.1 - 7.4   |
| Melting point/freezing point                        | : | 300 - 302 °F / 149 - 150 °C   |
| Initial boiling point and boiling range             | : | No data available   |
| Flash point   | : | No data available   |
| Evaporation rate                                    | : | Not applicable  |
| Flammability (solid, gas)                           | : | May form explosive dust-air mixture during processing, handling or other means. |
| Flammability (liquids)                              | : | Not applicable  |
| Upper explosion limit / Upper<br>flammability limit | : | No data available   |
| Lower explosion limit / Lower<br>flammability limit | : | No data available   |
| Vapor pressure                                      | : | Not applicable  |





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|------------|---------------------------|------------------------------|---|--------------------------|---|
|            |                           |                              |   |                          |   |
|            | Relative vapor density    |                              | : | Not applicable           |   |
|            | Relative density          |                              | : | No data available        | )   |
|            | Density                   |                              | : | No data available        | 9   |
|            | Solubilit<br>Wate         | ty(ies)<br>er solubility     | : | 110 g/l                  |   |
|            |                           | n coefficient: n-            | : | log Pow: 1.7             |   |
|            | octanol/<br>Autoign       | water<br>ition temperature   | : | No data available        | 9   |
|            | Decomposition temperature |                              | : | No data available        | )   |
|            | Viscosit<br>Visc          | y<br>osity, kinematic        | : | Not applicable           |   |
|            | Explosiv                  | ve properties                | : | Not explosive            |   |
|            | 0.11.1                    |                              |   | <b>-</b>                 |   |
|            | Oxidizir                  | ng properties                | : | The substance of         | r mixture is not classified as oxidizing.                         |
|            | Molecul                   | ar weight                    | : | No data available        |   |
|            | Particle                  | size                         | : | No data available        | )   |
|            |                           |                              |   |                          |   |

### 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<br>Incompatible materials<br>Hazardous decomposition    | : | Heat, flames and sparks.<br>Avoid dust formation.<br>Oxidizing agents<br>No hazardous decomposition products are known.  |
| products  |   |  |

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

#### Acute toxicity

Not classified based on available information.

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|---------------|--|---|--|--|
| Prod<br>Acute | luct:<br>e oral toxicity   |   | estimate: 2,400 mg/kg<br>Jation method                                 |  |
| <u>Com</u>    | ponents:   |   |  |  |
| 3-Etł         | noxycarbonylaniliniu   | m methanesulphona                                 | ate:   |  |
| Acute         | e oral toxicity  | : LD50 (Rat): 5                                   | 200 mg/kg  |  |
|               |  | LD50 (Mouse)                                      | ): 2,400 mg/kg   |  |
|               |  | LD50 (Dog): 4                                     | ,000 mg/kg   |  |
| -             | corrosion/irritation   | ailable information.                              |  |  |
|               | Serious eye damage/eye irritation<br>Not classified based on available information.  |   |  |  |
| Resp          | piratory or skin sens  | itization   |  |  |
| -             | Skin sensitization<br>Not classified based on available information.   |   |  |  |
| -             | Respiratory sensitization<br>Not classified based on available information.  |   |  |  |
|               | n cell mutagenicity<br>classified based on av  | ailable information.                              |  |  |
| Com           | ponents:   |   |  |  |
| 3-Etł         | noxycarbonylaniliniu   | m methanesulphona                                 | ate:   |  |
| Geno          | otoxicity in vitro   |   | cterial reverse mutation assay (AMES)<br>Salmonella typhimurium<br>ve  |  |
|               | n cell mutagenicity -<br>essment   | : Weight of evic cell mutagen.                    | lence does not support classification as a germ                        |  |
| Carc          | inogenicity  |   |  |  |
|               | Not classified based on available information.<br>IARC No ingredient of this product present at levels greater than or equal to 0.1% is<br>identified as probable, possible or confirmed human carcinogen by IARC. |   |  |  |
| OSH           |  | nent of this product pr<br>list of regulated carc | esent at levels greater than or equal to 0.1% is nogens.               |  |
| NTP           |  |   | sent at levels greater than or equal to 0.1% is ted carcinogen by NTP. |  |

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### Reproductive toxicity

Not classified based on available information.

#### **Components:**

#### 3-Ethoxycarbonylanilinium methanesulphonate:

Reproductive toxicity - As- : Weight of evidence does not support classification for reproductive toxicity

#### STOT-single exposure

Not classified based on available information.

#### Components:

#### 3-Ethoxycarbonylanilinium methanesulphonate:

:

Assessment

The substance or mixture is not classified as specific target organ toxicant, single exposure.

#### STOT-repeated exposure

Not classified based on available information.

#### Aspiration toxicity

Not classified based on available information.

#### Experience with human exposure

#### **Components:**

#### 3-Ethoxycarbonylanilinium methanesulphonate:

| General Information | <ul> <li>Target Organs: Blood</li> <li>Symptoms: Blood disorders</li> <li>Target Organs: Central nervous system</li> <li>Symptoms: seizures, Coma, Irregular cardiac activity, Respiratory disorders</li> </ul> |
|---------------------|---|
| Skin contact        | Target Organs: Eye<br>Symptoms: Eye disease<br>Target Organs: Skin<br>Symptoms: Sensitization   |

### SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

#### **Components:**

#### 3-Ethoxycarbonylanilinium methanesulphonate:

| Ex | C50 (Tetrahymena pyriformis): 52.5 mg/l<br>cposure time: 48 h<br>ethod: No data available |
|----|---|
|----|---|

### Persistence and degradability

No data available

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|----------------|--|------------------------------|---|--|
| Bio            | accumulative potential                   |                              |   |  |
| <u>Cor</u>     | nponents:                                |                              |   |  |
| 3-E            | thoxycarbonylanilinium                   | methanesulphonate            |   |  |
| Bioa           | accumulation                             |                              | factor (BCF): 4.76<br>Test Guideline 305                          |  |
|                | b <b>ility in soil</b><br>data available |                              |   |  |
|                | er adverse effects                       |                              |   |  |
| No             | data available                           |                              |   |  |
| SECTIO         | N 13. DISPOSAL CONSI                     | DERATIONS                    |   |  |
| Dis            | posal methods                            |                              |   |  |
| Was            | ste from residues                        | •                            | ordance with local regulations.<br>f waste into sewer.            |  |

|                        |   | 1 5   |
|------------------------|---|---|
|                        |   | Do not dispose of waste into sewer.                       |
| Contaminated packaging | : | Empty containers should be taken to an approved waste     |
|                        |   | handling site for recycling or disposal.                  |
|                        |   | If not otherwise specified: Dispose of as unused product. |
|                        |   |   |

#### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulations

#### UNRTDG

Not regulated as a dangerous good

#### IATA-DGR

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### **Domestic regulation**

**49 CFR** Not regulated as a dangerous good

### Special precautions for user

Not applicable

### SECTION 15. REGULATORY INFORMATION

#### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

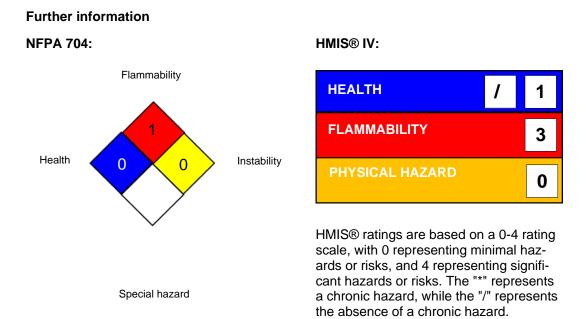
according to the OSHA Hazard Communication Standard



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|----------------|---|----------------------------|---|
|                | •   |                            | es Threshold Planning Quantity<br>nts with a section 302 EHS TPQ.   |
|                | A 311/312 Hazards                         | : Combustil                |   |
| SAR            | A 313                                     | known CA                   | rial does not contain any chemical components with<br>S numbers that exceed the threshold (De Minimis)<br>evels established by SARA Title III, Section 313. |
| US S           | state Regulations                         |                            |   |
| Penr           | nsylvania Right To Kn<br>3-Ethoxycarbonyl |                            | esulphonate 886-86-2  |
|                |   | -                          | ed in the following inventories:  |
| AICS           |   | : not detern               |   |
| DSL            |   | : not detern               |   |
| IECS           | SC  | : not detern               | nined   |

### **SECTION 16. OTHER INFORMATION**



### Full text of other abbreviations

| CAL PEL       | : | California permissible exposure limits for chemical contami-<br>nants (Title 8, Article 107) |
|---------------|---|--|
| OSHA Z-3      | : | USA. Occupational Exposure Limits (OSHA) - Table Z-3 Min-<br>eral Dusts                      |
| CAL PEL / PEL | : | Permissible exposure limit   |

### SAFETY DATA SHEET according to the OSHA Hazard Communication Standard



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#### OSHA Z-3 / TWA : 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials: bw - Body weight: CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC -International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; 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

| Sources of key data used to               | : | Internal technical data, data from raw material SDSs, OECD                             |
|---|---|--|
| compile the Material Safety<br>Data Sheet |   | eChem Portal search results and European Chemicals Agen-<br>cy, http://echa.europa.eu/ |
|   |   |  |

Revision Date : 09/30/2023

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

US / Z8