

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Dorzolamide Formulation

|         |                |             |                                 |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 04/04/2023  |
| 6.9     | 09/30/2023     | 29001-00021 | Date of first issue: 11/07/2014 |

### SECTION 1. IDENTIFICATION

Product name : Dorzolamide Formulation

#### Manufacturer or supplier's details

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 chemical and restrictions on use

Recommended use : Pharmaceutical  
Restrictions on use : Not applicable

### SECTION 2. HAZARDS IDENTIFICATION

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

Specific target organ toxicity : Category 2 (Central nervous system, Gastrointestinal tract,  
- repeated exposure Bone, Blood, Bladder)

#### GHS label elements

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H373 May cause damage to organs (Central nervous system, Gastrointestinal tract, Bone, Blood, Bladder) through prolonged or repeated exposure.

Precautionary Statements : **Prevention:**  
P260 Do not breathe mist or vapors.  
**Response:**  
P314 Get medical attention if you feel unwell.  
**Disposal:**  
P501 Dispose of contents and container to an approved waste disposal plant.

#### Other hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Substance / Mixture : Mixture

### Components

| Chemical name | CAS-No.     | Concentration (% w/w) |
|---------------|-------------|-----------------------|
| Dorzolamide   | 130693-82-2 | $\geq 1 - < 5$        |

Actual concentration is withheld as a trade secret

## SECTION 4. FIRST AID MEASURES

General advice : In the case of accident or if you feel unwell, seek medical advice immediately.  
When symptoms persist or in all cases of doubt seek medical advice.

If inhaled : If inhaled, remove to fresh air.  
Get medical attention if symptoms occur.

In case of skin contact : In case of contact, immediately flush skin with soap and plenty of water.  
Get medical attention if symptoms occur.

In case of eye contact : Flush eyes with water as a precaution.  
Get medical attention if irritation develops and persists.

If swallowed : If swallowed, DO NOT induce vomiting.  
Get medical attention if symptoms occur.  
Rinse mouth thoroughly with water.

Most important symptoms and effects, both acute and delayed : May cause damage to organs through prolonged or repeated exposure.

Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment 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  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : None known.

Specific hazards during fire fighting : Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Sulfur oxides  
Hydrogen chloride

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.

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Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).

Environmental precautions : Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g., by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. 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 determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

### SECTION 7. HANDLING AND STORAGE

Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : Use only with adequate ventilation.

Advice on safe handling : Do not breathe mist or vapors. Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment. 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: Strong oxidizing agents Gases

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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

| Components               | CAS-No.     | Value type<br>(Form of exposure) | Control parameters / Permissible concentration | Basis    |
|--------------------------|-------------|----------------------------------|------------------------------------------------|----------|
| Dorzolamide              | 130693-82-2 | TWA                              | 10 µg/m <sup>3</sup> (OEB 3)                   | Internal |
| Further information: Eye |             |                                  |                                                |          |
|                          |             | Wipe limit                       | 100 µg/100 cm <sup>2</sup>                     | Internal |

**Engineering measures** : Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip-less quick connections).  
All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.  
Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices).  
Minimize open handling.

#### Personal protective equipment

**Respiratory protection** : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

#### Hand protection

**Material** : Chemical-resistant gloves

**Remarks** : Consider double gloving.

**Eye protection** : Wear safety glasses with side shields or goggles.  
If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles.  
Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.

**Skin and body protection** : Work uniform or laboratory coat.  
Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.  
Use appropriate degowning techniques to remove potentially contaminated clothing.

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Hygiene measures : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.  
When using do not eat, drink or smoke.  
Wash contaminated clothing before re-use.  
The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                                  |                     |
|--------------------------------------------------|---------------------|
| Appearance                                       | : Aqueous solution  |
| Color                                            | : No data available |
| Odor                                             | : No data available |
| Odor Threshold                                   | : No data available |
| pH                                               | : 5.6               |
| Melting point/freezing point                     | : No data available |
| Initial boiling point and boiling range          | : No data available |
| Flash point                                      | : No data available |
| Evaporation rate                                 | : No data available |
| Flammability (solid, gas)                        | : Not applicable    |
| Flammability (liquids)                           | : No data available |
| Upper explosion limit / Upper flammability limit | : No data available |
| Lower explosion limit / Lower 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              | : soluble           |
| Partition coefficient: n-                        | : No data available |

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|                           |                                                            |
|---------------------------|------------------------------------------------------------|
| octanol/water             |                                                            |
| Autoignition temperature  | : No data available                                        |
| Decomposition temperature | : No data available                                        |
| Viscosity                 |                                                            |
| Viscosity, kinematic      | : No data available                                        |
| Explosive properties      | : Not explosive                                            |
| Oxidizing properties      | : The substance or mixture is not classified as oxidizing. |
| Molecular weight          | : Not applicable                                           |
| Particle size             | : Not applicable                                           |

### SECTION 10. STABILITY AND REACTIVITY

|                                    |                                                  |
|------------------------------------|--------------------------------------------------|
| Reactivity                         | : Not classified as a reactivity hazard.         |
| Chemical stability                 | : Stable under normal conditions.                |
| Possibility of hazardous reactions | : Can react with strong oxidizing agents.        |
| Conditions to avoid                | : None known.                                    |
| Incompatible materials             | : Oxidizing agents                               |
| Hazardous decomposition products   | : No hazardous decomposition products are known. |

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Inhalation  
Skin contact  
Ingestion  
Eye contact

#### Acute toxicity

Not classified based on available information.

#### Product:

|                     |                                                                        |
|---------------------|------------------------------------------------------------------------|
| Acute oral toxicity | : Acute toxicity estimate: > 5,000 mg/kg<br>Method: Calculation method |
|---------------------|------------------------------------------------------------------------|

#### Components:

##### Dorzolamide:

|                           |                                                        |
|---------------------------|--------------------------------------------------------|
| Acute oral toxicity       | : LD50 (Rat): 1,927 mg/kg<br>LD50 (Mouse): 1,320 mg/kg |
| Acute inhalation toxicity | : Remarks: No data available                           |

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Acute dermal toxicity : Remarks: No data available

### Skin corrosion/irritation

Not classified based on available information.

### Serious eye damage/eye irritation

Not classified based on available information.

### Components:

#### Dorzolamide:

|         |   |                     |
|---------|---|---------------------|
| Species | : | Monkey              |
| Result  | : | Mild eye irritation |

### Respiratory or skin sensitization

#### Skin sensitization

Not classified based on available information.

#### Respiratory sensitization

Not classified based on available information.

### Components:

#### Dorzolamide:

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

### Germ cell mutagenicity

Not classified based on available information.

### Components:

#### Dorzolamide:

|                       |   |                                   |
|-----------------------|---|-----------------------------------|
| Genotoxicity in vitro | : | Test Type: Chromosomal aberration |
|                       |   | Result: negative                  |

|                                   |
|-----------------------------------|
| Test Type: Alkaline elution assay |
| Test system: rat hepatocytes      |
| Result: negative                  |

|                                                       |
|-------------------------------------------------------|
| Test Type: In vitro mammalian cell gene mutation test |
| Test system: Chinese hamster fibroblasts              |
| Result: negative                                      |

|                                                    |
|----------------------------------------------------|
| Test Type: Bacterial reverse mutation assay (AMES) |
| Result: negative                                   |

|                      |   |                              |
|----------------------|---|------------------------------|
| Genotoxicity in vivo | : | Test Type: Cytogenetic assay |
|                      |   | Species: Mouse               |
|                      |   | Result: negative             |

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### Carcinogenicity

Not classified based on available information.

#### Components:

##### **Dorzolamide:**

|                   |   |                                                                |
|-------------------|---|----------------------------------------------------------------|
| Species           | : | Rat, male                                                      |
| Application Route | : | Oral                                                           |
| Exposure time     | : | 2 Years                                                        |
|                   | : | 20 mg/kg body weight                                           |
| Result            | : | negative                                                       |
| Remarks           | : | The mechanism or mode of action may not be relevant in humans. |

|                   |   |             |
|-------------------|---|-------------|
| Species           | : | Mouse       |
| Application Route | : | Oral        |
| Exposure time     | : | 21 month(s) |
| Result            | : | negative    |

**IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### Reproductive toxicity

Not classified based on available information.

#### Components:

##### **Dorzolamide:**

|                      |   |                                                               |
|----------------------|---|---------------------------------------------------------------|
| Effects on fertility | : | Test Type: Fertility                                          |
|                      |   | Species: Rat, male and female                                 |
|                      |   | Application Route: Oral                                       |
|                      |   | Fertility: NOAEL: 7.5 mg/kg body weight                       |
|                      |   | Result: Animal testing did not show any effects on fertility. |

|                              |   |                                                                                                                    |
|------------------------------|---|--------------------------------------------------------------------------------------------------------------------|
| Effects on fetal development | : | Test Type: Development                                                                                             |
|                              |   | Species: Rabbit                                                                                                    |
|                              |   | Application Route: Oral                                                                                            |
|                              |   | Developmental Toxicity: NOAEL: 1 mg/kg body weight                                                                 |
|                              |   | Result: Embryotoxic effects and adverse effects on the offspring were detected only at high maternally toxic doses |

|  |   |                                                        |
|--|---|--------------------------------------------------------|
|  | : | Test Type: Development                                 |
|  |   | Species: Rabbit                                        |
|  |   | Application Route: Oral                                |
|  |   | Developmental Toxicity: LOAEL: 2.5 mg/kg body weight   |
|  |   | Result: Embryotoxic effects and adverse effects on the |



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offspring were detected only at high maternally toxic doses

### STOT-single exposure

Not classified based on available information.

### STOT-repeated exposure

May cause damage to organs (Central nervous system, Gastrointestinal tract, Bone, Blood, Bladder) through prolonged or repeated exposure.

#### Components:

##### **Dorzolamide:**

|               |   |                                                                      |
|---------------|---|----------------------------------------------------------------------|
| Target Organs | : | Central nervous system, Gastrointestinal tract, Bone, Blood, Bladder |
| Assessment    | : | May cause damage to organs through prolonged or repeated exposure.   |

### Repeated dose toxicity

#### Components:

##### **Dorzolamide:**

|                   |   |                                     |
|-------------------|---|-------------------------------------|
| Species           | : | Rat                                 |
| NOAEL             | : | 0.05 mg/kg                          |
| Application Route | : | Oral                                |
| Target Organs     | : | Bladder, Kidney                     |
| Species           | : | Dog                                 |
| NOAEL             | : | 0.05 mg/kg                          |
| LOAEL             | : | 2 mg/kg                             |
| Application Route | : | Oral                                |
| Exposure time     | : | 1 y                                 |
| Target Organs     | : | Gastrointestinal tract, Bone, Blood |
| Species           | : | Monkey                              |
| NOAEL             | : | 0.05 mg/kg                          |
| Exposure time     | : | 1 y                                 |
| Target Organs     | : | Gastrointestinal tract, Bone, Blood |

### Aspiration toxicity

Not classified based on available information.

### Experience with human exposure

#### Components:

##### **Dorzolamide:**

|             |   |                                                                                                                        |
|-------------|---|------------------------------------------------------------------------------------------------------------------------|
| Eye contact | : | Symptoms: burning or stinging of the eye, Blurred vision, tearing, asthenia, bitter taste, Nausea, dry mouth, Headache |
|-------------|---|------------------------------------------------------------------------------------------------------------------------|

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### SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

##### Components:

##### **Dorzolamide:**

|                                                     |   |                                                                                                                                        |
|-----------------------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to fish                                    | : | LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l<br>Exposure time: 96 h                                                       |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 699 mg/l<br>Exposure time: 48 h                                                                     |
| Toxicity to microorganisms                          | : | EC50 (Natural microorganism): > 800 mg/l<br>Exposure time: 3 h<br>Test Type: Respiration inhibition<br>Method: OECD Test Guideline 209 |

#### Persistence and degradability

##### Components:

##### **Dorzolamide:**

|                  |   |                                                                                                                 |
|------------------|---|-----------------------------------------------------------------------------------------------------------------|
| Biodegradability | : | Result: not rapidly degradable<br>Biodegradation: 5 %<br>Exposure time: 28 d<br>Method: OECD Test Guideline 314 |
|------------------|---|-----------------------------------------------------------------------------------------------------------------|

#### Bioaccumulative potential

##### Components:

##### **Dorzolamide:**

|                                        |   |                |
|----------------------------------------|---|----------------|
| Partition coefficient: n-octanol/water | : | log Pow: 0.292 |
|----------------------------------------|---|----------------|

##### **Mobility in soil**

No data available

##### **Other adverse effects**

No data available

### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

|                        |   |                                                                                                                                                             |
|------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste from residues    | : | Dispose of in accordance with local regulations.<br>Do not dispose of waste into sewer.                                                                     |
| Contaminated packaging | : | Empty containers should be taken to an approved waste handling site for recycling or disposal.<br>If not otherwise specified: Dispose of as unused product. |

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### 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.

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Specific target organ toxicity (single or repeated exposure)

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### US State Regulations

##### Pennsylvania Right To Know

Water

7732-18-5

#### The ingredients of this product are reported in the following inventories:

AICS : not determined

DSL : not determined

IECSC : not determined

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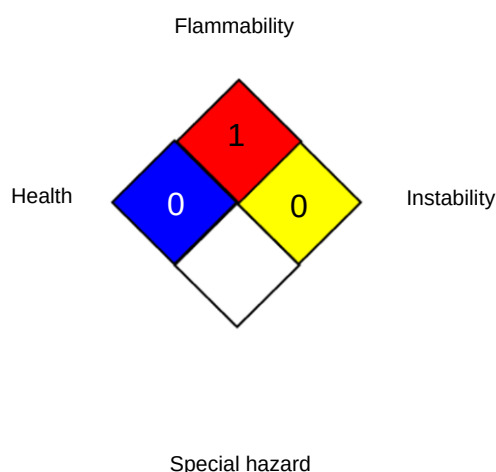
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### SECTION 16. OTHER INFORMATION

#### Further information

##### NFPA 704:



##### HMIS® IV:

|                 |   |   |
|-----------------|---|---|
| HEALTH          | * | 2 |
| FLAMMABILITY    |   | 1 |
| PHYSICAL HAZARD |   | 0 |

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

#### Full text of other abbreviations

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

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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 compile the Material Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <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