

ROTOSTAR AQUA 441 SILVER 3505-60

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| Version | Revision Date: | SDS Number: | Date of last issue: 11/25/2024 |
| 3.3 | 03/31/2025 | 102000026950 | Date of first issue: 03/26/2018 |

SECTION 1. IDENTIFICATION

Product name : ROTOSTAR AQUA 441 SILVER 3505-60
Product code : 046521CM0

Manufacturer or supplier's details

Company name of supplier : ECKART America Corporation
Address : 830 East Erie Street
Painesville OH 44077
Telephone : 866-458-7837
(440) 954-7600
Telefax : (440) 354-6224
e-mail adresse : info.eckart.america.oh@altana.com
Emergency telephone : **CHEMTREC:** 800-424-9300
CHEMTREC: 1-703-527-3387 (International)

NCEC:

(contract no. ECKART29003-NCEC)
US: +1 866 928 0789 (Toll free)
Canada: +1 800 579 7421 (Toll Free)
Mexico: +52 55 5004 8763

SECTION 2. HAZARDS IDENTIFICATION**GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Skin sensitization : Category 1

Specific target organ toxicity : Category 2
- repeated exposure

GHS label elements

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H317 May cause an allergic skin reaction.
H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements : **Prevention:**

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P260 Do not breathe mist or vapors.
P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves.

Response:
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P314 Get medical advice/ attention if you feel unwell.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P363 Wash contaminated clothing before reuse.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous ingredients which must be listed on the label:

1H-Imidazole-1-ethanol, 2-(8-heptadecen-1-yl)-4,5-dihydro-
5-Decyne-4,7-diol, 2,4,7,9-tetramethyl-

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**Hazardous ingredients**

| Chemical name | CAS-No. | Concentration (% w/w) |
|--|-----------|-----------------------|
| Aluminum | 7429-90-5 | $\geq 10 - < 20$ |
| 2-Propanol | 67-63-0 | $\geq 1 - < 5$ |
| 1H-Imidazole-1-ethanol, 2-(8-heptadecen-1-yl)-4,5-dihydro- | 95-38-5 | $\geq 1 - < 5$ |
| 5-Decyne-4,7-diol, 2,4,7,9-tetramethyl- | 126-86-3 | $\geq 0.1 - < 1$ |

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

| | |
|----------------|---|
| General advice | : Take the victim into fresh air. Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. |
| If inhaled | : If unconscious, place in recovery position and seek medical advice. |

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| In case of skin contact | : | If symptoms persist, call a physician. Wash off immediately with soap and plenty of water. |
| In case of eye contact | : | Immediately flush eye(s) with plenty of water. Immediately flush eye(s) with plenty of water. Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. |
| If swallowed | : | Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. |
| Most important symptoms and effects, both acute and delayed | : | May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure. |

SECTION 5. FIRE-FIGHTING MEASURES

| | | |
|--|---|---|
| Suitable extinguishing media | : | Dry sand ABC powder Foam |
| Unsuitable extinguishing media | : | Water Carbon dioxide (CO ₂) |
| Further information | : | Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Special protective equipment for fire-fighters | : | Wear self-contained breathing apparatus for firefighting if necessary. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

| | | |
|---|---|---|
| Personal precautions, protective equipment and emergency procedures | : | Evacuate personnel to safe areas. Use personal protective equipment. |
| General advice | : | The product should not be allowed to enter drains, water courses or the soil. Prevent further leakage or spillage if safe to do so. |
| Environmental precautions | : | The product should not be allowed to enter drains, water courses or the soil. Prevent further leakage or spillage if safe to do so. |
| Methods and materials for containment and cleaning up | : | Use mechanical handling equipment. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Soak up with inert absorbent material (e.g. sand, silica gel, |

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acid binder, universal binder, sawdust).
Do not flush with water.
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Do not breathe vapors/dust.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Earthing of containers and apparatuses is essential.
Take measures to prevent the build up of electrostatic charge.
Use explosion-proof equipment.
Store in original container.
Keep container tightly closed in a dry and well-ventilated place.
Electrical installations / working materials must comply with the technological safety standards.
- Materials to avoid : Do not store near acids.
Do not store together with oxidizing and self-igniting products.
Keep away from oxidizing agents and strongly acid or alkaline materials.
Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
- Further information on storage stability : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Ingredients with workplace control parameters**

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|------------|-----------|----------------------------------|---|-----------|
| Aluminum | 7429-90-5 | TWA (total dust) | 50 Million particles per cubic foot | OSHA Z-3 |
| | | TWA | 5 mg/m3 | NIOSH REL |

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| | | (Respirable) | | |
| | | TWA (total dust) | 15 mg/m3 | OSHA Z-3 |
| | | TWA (total) | 10 mg/m3 | NIOSH REL |
| | | TWA (respirable fraction) | 5 mg/m3 | OSHA Z-3 |
| | | TWA (respirable fraction) | 15 Million particles per cubic foot | OSHA Z-3 |
| | | TWA (Respirable particulate matter) | 1 mg/m3 | ACGIH |
| | | TWA | 5 mg/m3 (Aluminum) | NIOSH REL |
| | | TWA (Total) | 15 mg/m3 (Aluminum) | OSHA P0 |
| | | TWA (Respirable fraction) | 5 mg/m3 (Aluminum) | OSHA P0 |
| | | TWA (total dust) | 15 mg/m3 (Aluminum) | OSHA Z-1 |
| | | TWA (respirable fraction) | 5 mg/m3 (Aluminum) | OSHA Z-1 |
| | | TWA (Total dust) | 15 mg/m3 (Aluminum) | OSHA P0 |
| | | TWA (respirable dust fraction) | 5 mg/m3 (Aluminum) | OSHA P0 |
| | | TWA (welding fumes) | 5 mg/m3 (Aluminum) | NIOSH REL |
| | | TWA (pyro powders) | 5 mg/m3 (Aluminum) | NIOSH REL |
| | | TWA (Respirable particulate matter) | 1 mg/m3 (Aluminum) | ACGIH |
| | | TWA (Fumes) | 5 mg/m3 | OSHA P0 |
| | | TWA (powder) | 5 mg/m3 (Aluminum) | OSHA P0 |
| 2-Propanol | 67-63-0 | TWA | 200 ppm | ACGIH |

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| | | STEL | 400 ppm | ACGIH |
| | | TWA | 400 ppm 980 mg/m ³ | NIOSH REL |
| | | ST | 500 ppm 1,225 mg/m ³ | NIOSH REL |
| | | TWA | 400 ppm 980 mg/m ³ | OSHA Z-1 |
| | | TWA | 400 ppm 980 mg/m ³ | OSHA P0 |
| | | STEL | 500 ppm 1,225 mg/m ³ | OSHA P0 |

Biological occupational exposure limits

| Components | CAS-No. | Control parameters | Biological specimen | Sampling time | Permissible concentration | Basis |
|------------|---------|--------------------|---------------------|---------------------------------|---------------------------|-----------|
| 2-Propanol | 67-63-0 | Acetone | Urine | End of shift at end of workweek | 40 mg/l | ACGIH BEI |

Personal protective equipment

Respiratory protection : Use suitable breathing protection if workplace concentration requires.

Hand protection
 Material : Solvent-resistant gloves (butyl-rubber)

Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Recommended preventive skin protection Skin should be washed after contact. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Goggles
 Wear face-shield and protective suit for abnormal processing problems.

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Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid
Color : silver
Odor : characteristic
Odor Threshold : No data available
pH : 6 - 8
Concentration: 100 %

Melting point/ range : Not applicable
Boiling point/boiling range : > 100 °C

Flash point : > 100 °C

Evaporation rate : No data available
Flammability (solid, gas) : 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 density : No data available
Density : 1.1 - 1.2 g/cm3

Solubility(ies)
Water solubility : insoluble
Partition coefficient: n-octanol/water : No data available
Autoignition temperature : No data available
Decomposition temperature : No data available
Viscosity : No data available
Total Volatile organic compounds (VOC) content : 1.00 - 3.00 %

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.
Chemical stability : No decomposition if stored and applied as directed.
Possibility of hazardous reactions : Contact with acids and alkalis may release hydrogen.
Stable under recommended storage conditions.

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| | | |
|------------------------|---|---|
| Conditions to avoid | : | Do not allow evaporation to dryness. No data available |
| Incompatible materials | : | Acids Bases Oxidizing agents |

SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Not classified based on available information.

Components:**2-Propanol:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

1H-Imidazole-1-ethanol, 2-(8-heptadecen-1-yl)-4,5-dihydro-:

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

Skin corrosion/irritation

Not classified based on available information.

Components:**1H-Imidazole-1-ethanol, 2-(8-heptadecen-1-yl)-4,5-dihydro-:**

Result: Corrosive, category 1C - where responses occur after exposures between 1 hour and 4 hours and observations up to 14 days.

Remarks: Extremely corrosive and destructive to tissue.

Serious eye damage/eye irritation

Not classified based on available information.

Components:**2-Propanol:**

Result: Eye irritation

1H-Imidazole-1-ethanol, 2-(8-heptadecen-1-yl)-4,5-dihydro-:

Result: No eye irritation

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Remarks: May cause irreversible eye damage.

5-Decyne-4,7-diol, 2,4,7,9-tetramethyl-:

Result: Irreversible effects on the eye

Respiratory or skin sensitization**Skin sensitization**

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Components:**5-Decyne-4,7-diol, 2,4,7,9-tetramethyl-:**

Result: The product is a skin sensitizer, sub-category 1B.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

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.

STOT-single exposure

Not classified based on available information.

Components:**2-Propanol:**

Assessment: May cause drowsiness or dizziness.

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STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Components:**1H-Imidazole-1-ethanol, 2-(8-heptadecen-1-yl)-4,5-dihydro-:**

Assessment: May cause damage to organs through prolonged or repeated exposure.

Aspiration toxicity

Not classified based on available information.

Further information

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****1H-Imidazole-1-ethanol, 2-(8-heptadecen-1-yl)-4,5-dihydro-:**

M-Factor (Acute aquatic toxicity) : 10

M-Factor (Chronic aquatic toxicity) : 1

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

5-Decyne-4,7-diol, 2,4,7,9-tetramethyl-:

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

Ecotoxicology Assessment

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Other adverse effects

No data available

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Components:**1H-Imidazole-1-ethanol, 2-(8-heptadecen-1-yl)-4,5-dihydro-:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.
In accordance with local and national regulations.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
In accordance with local and national regulations.

SECTION 14. TRANSPORT INFORMATION**Domestic regulation****49 CFR**

Not regulated as a dangerous good

International Regulations**IATA-DGR**

Not permitted for transport

IMDG-Code

Not regulated as a dangerous good

Remarks : Due to the risk of hydrogen development we recommend to refrain from airfreighting this/these product(s).

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

Not applicable for product as supplied.

SECTION 15. REGULATORY INFORMATION**EPCRA - Emergency Planning and Community Right-to-Know****CERCLA Reportable Quantity**

| Components | CAS-No. | Component RQ (lbs) |
|------------|---------|--------------------|
| | | |

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| | | |
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| Ethanamine, N,N-diethyl- | 121-44-8 | 5000 |
| Carbamic acid, N-1H-benzimidazol-2-yl-, methyl ester | 10605-21-7 | 10 |

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)
Respiratory or skin sensitization

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

| | | |
|------------|-----------|----------------|
| Aluminum | 7429-90-5 | >= 10 - < 20 % |
| 2-Propanol | 67-63-0 | >= 1 - < 5 % |

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

| | | |
|-------------------------------|-----------|----------------|
| 2-Propanol | 67-63-0 | >= 1 - < 5 % |
| White mineral oil (petroleum) | 8042-47-5 | >= 0.1 - < 1 % |

Clean Water Act

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

| | | |
|--------------------------|----------|---|
| Ethanamine, N,N-diethyl- | 121-44-8 | % |
|--------------------------|----------|---|

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

| | | |
|--------------------------|----------|---|
| Ethanamine, N,N-diethyl- | 121-44-8 | % |
|--------------------------|----------|---|

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US State Regulations**Massachusetts Right To Know**

| | |
|------------|-----------|
| Aluminum | 7429-90-5 |
| 2-Propanol | 67-63-0 |

Pennsylvania Right To Know

| | |
|-------------------------------|--------------|
| Water | 7732-18-5 |
| Aluminum | 7429-90-5 |
| Polyurethane/polyurea polymer | Not Assigned |
| Dextrin | 9004-53-9 |
| 2-Propanol | 67-63-0 |
| Ethanamine, N,N-diethyl- | 121-44-8 |

California Prop. 65

WARNING: This product can expose you to chemicals including lead and cadmium, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California List of Hazardous Substances

| | |
|------------|-----------|
| Aluminum | 7429-90-5 |
| 2-Propanol | 67-63-0 |

California Permissible Exposure Limits for Chemical Contaminants

| | |
|------------|-----------|
| Aluminum | 7429-90-5 |
| 2-Propanol | 67-63-0 |

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

| | |
|------|--|
| DSL | : This product contains one or several components listed in the Canadian NDSL. |
| TSCA | : All substances listed as active on the TSCA inventory |

TSCA list

No substances are subject to a Significant New Use Rule.

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No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION**Full text of other abbreviations**

| | | |
|-----------------|---|---|
| ACGIH | : | USA. ACGIH Threshold Limit Values (TLV) |
| ACGIH BEI | : | ACGIH - Biological Exposure Indices (BEI) |
| NIOSH REL | : | USA. NIOSH Recommended Exposure Limits |
| OSHA P0 | : | USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values) |
| OSHA Z-1 | : | USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants |
| OSHA Z-3 | : | USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts |
| ACGIH / TWA | : | 8-hour, time-weighted average |
| ACGIH / STEL | : | Short-term exposure limit |
| NIOSH REL / TWA | : | Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek |
| NIOSH REL / ST | : | STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday |
| OSHA P0 / TWA | : | 8-hour time weighted average |
| OSHA P0 / STEL | : | Short-term exposure limit |
| OSHA Z-1 / TWA | : | 8-hour time weighted average |
| 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

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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

Revision Date : 03/31/2025

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / Z8