SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form: Substance
Trade name: Zinc Sulfate Monohydrate
Chemical name: Zinc Sulfate Monohydrate
CAS No: 7446-19-7
Product code: 2988, 2989 & 2990
Formula: ZnSO₄•H₂O
Synonyms: sulfuric acid, zinc salt (1:1), monohydrate / zinc sulfate monohydrate granular TG / zinc sulfate monohydrate powder refined / zinc sulfate monohydrate powder TG / zinc sulfate monohydrate prilled TG / zinc sulphate, monohydrate
BIG no: 20862

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture: Pharmaceutical industry. Food-stuff industry.

1.3. Details of the supplier of the safety data sheet

Jost Chemical Co.
8150 Lackland Rd.
Saint Louis, Missouri 63114
T 314-428-4300 - F 314-428-4366
www.jostchemical.com

1.4. Emergency telephone number

Emergency number: CHEMTREC 800-424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)
Acute Tox. 4 (Oral): H302
Eye Dam. 1: H318
Aquatic Acute 1: H400
Aquatic Chronic 1: H410
Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling
Hazard pictograms (GHS-US): 

Signal word (GHS-US): Danger
Hazard statements (GHS-US): H302 - Harmful if swallowed
H318 - Causes serious eye damage
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
Precautionary statements (GHS-US): P264 - Wash hands, forearms and face thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P273 - Avoid release to the environment
P280 - Wear protective gloves, eye protection
P301+P312 - If swallowed: Call a doctor if you feel unwell
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a doctor
P330 - Rinse mouth
P391 - Collect spillage
P501 - Dispose of contents/container to hazardous or special waste collection point, in
2.3. Other hazards

Other hazards not contributing to the classification

: None under normal conditions.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Substance type

: Mono-constituent

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc Sulfate Monohydrate (Main constituent)</td>
<td>(CAS No) 7446-19-7</td>
<td>100</td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Dam. 1, H318</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Acute 1, H400</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Chronic 1, H410</td>
</tr>
</tbody>
</table>

Full text of H-phrases: see section 16

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general


First-aid measures after inhalation

: Remove person to fresh air and keep comfortable for breathing. Respiratory problems: consult a doctor/medical service.

First-aid measures after skin contact

: Wash with plenty of soap and water. Do not apply (chemical) neutralizing agents. Take victim to a doctor if irritation persists.

First-aid measures after eye contact

: Rinse immediately with plenty of water for 15 minutes. Do not apply neutralizing agents. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

First-aid measures after ingestion

: Rinse mouth with water, do not induce vomiting, call a doctor. Drink plenty of water.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation

: AFTER INHALATION OF DUST: Coughing.

Symptoms/injuries after skin contact

: Slight irritation.

Symptoms/injuries after eye contact

: Irritation of the eye tissue. Visual disturbances. Serious damage to eyes.

Symptoms/injuries after ingestion


Chronic symptoms

: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Skin rash/inflammation. Gastrointestinal complaints. Inflammation/damage of the eye tissue.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media


Unsuitable extinguishing media

: No unsuitable extinguishing media known.

5.2. Special hazards arising from the substance or mixture

Fire hazard

: DIRECT FIRE HAZARD. Non combustible.

Explosion hazard

: DIRECT EXPLOSION HAZARD. No direct explosion hazard.

Reactivity

: On burning: release of toxic and corrosive gases/vapours (sulphur oxides, zinc oxide) and formation of metallic fumes. Reacts violently with (strong) bases.
5.3. Advice for firefighters

Precautionary measures fire : Exposure to fire/heat: keep upwind. Exposure to fire/heat: have neighbourhood close doors and windows.

Firefighting instructions : Dilute toxic gases with water spray. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.


**SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures

**6.1.1. For non-emergency personnel**

Protective equipment : Gloves. Safety glasses. Protective clothing.

Emergency procedures : Ventilate spillage area. Mark the danger area. Prevent dust cloud formation. No naked flames. Wash contaminated clothes. Avoid contact with skin and eyes.

Measures in case of dust release : In case of dust production: keep upwind. Dust production: have neighbourhood close doors and windows.

**6.1.2. For emergency responders**

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8 Exposure controls/personal protection***.

6.2. Environmental precautions

Avoid release to the environment. Prevent soil and water pollution. Prevent spreading in sewers.

6.3. Methods and material for containment and cleaning up

For containment : Contain released substance, pump into suitable containers. Consult "Material-handling" to select material of containers. Plug the leak, cut off the supply. Dam up the solid spill. Knock down/dilute dust cloud with water spray. Collect spillage.

Methods for cleaning up : Recover mechanically the product. Stop dust cloud by covering with sand/earth. Scoop solid spill into closing containers. See "Material-handling" for suitable container materials. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8 : Exposure controls/personal protection**.

**SECTION 7: Handling and storage**

7.1. Precautions for safe handling

Precautions for safe handling : Avoid dust formation. Clean contaminated clothing. Do not discharge the waste into the drain. Do not eat, drink or smoke when using this product. Ensure good ventilation of the work station. Observe strict hygiene. Keep away from naked flames/heat. Keep container tightly closed. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Avoid contact with skin and eyes. Wear personal protective equipment. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands and face immediately after handling this product, and once again before leaving the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.


Heat-ignition : KEEP SUBSTANCE AWAY FROM: heat sources.

Prohibitions on mixed storage : KEEP SUBSTANCE AWAY FROM: (strong) bases. water/moisture.

Storage area : Store at ambient temperature. Store in a dry area. Keep container in a well-ventilated place. Meet the legal requirements.

Special rules on packaging : SPECIAL REQUIREMENTS: closing. watertight. dry. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.

Packaging materials : MATERIAL TO AVOID: lead.

7.3. Specific end use(s)

No additional information available
SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Zinc Sulfate Monohydrate (7446-19-7)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>OSHA</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
</tr>
<tr>
<td></td>
<td>15 mg/m³ Total Dust</td>
</tr>
<tr>
<td></td>
<td>5 mg/m³ Respirable</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Appropriate engineering controls: Ensure good ventilation of the work station.

Personal protective equipment:
- Materials for protective clothing: butyl rubber, PVC.
- Hand protection: nitrile rubber gloves.
- Skin and body protection: Protective clothing.
- Respiratory protection: Dust mask.
- Environmental exposure controls: Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state: Solid
- Color: White
- Odor: Odourless
- Odor threshold: No data available
- pH: 4.0 (5 %)
- pH solution: 5 %
- Melting point: 238 °C
- Freezing point: Not applicable
- Boiling point: > 500 °C
- Flash point: Not applicable
- Relative evaporation rate (butyl acetate=1): No data available
- Flammability (solid, gas): Not flammable
- Explosion limits: Not applicable
- Explosive properties: No data available.
- Oxidizing properties: No data available.
- Vapor pressure: Not applicable
- Vapor pressure at 50 °C: No data available
- Relative density: Not applicable
- Relative vapor density at 20 °C: No data available
- Specific gravity / density: 2500 kg/m³
- Molecular mass: 179.47 g/mol
- Solubility: Soluble in water. Soluble in methanol. Soluble in glycerol. Water: 35 g/100ml
- Log Pow: Not applicable (inorganic substance)
- Log Kow: Not applicable (inorganic substance)
- Auto-ignition temperature: Not applicable
- Decomposition temperature: > 500 °C
- Viscosity: No data available
Viscosity, kinematic: Not applicable
Viscosity, dynamic: No data available

9.2. Other information
VOC content: Not applicable
Other properties: Hygroscopic. Substance has acid reaction.

SECTION 10: Stability and reactivity
10.1. Reactivity
On burning: release of toxic and corrosive gases/vapours (sulphur oxides, zinc oxide) and formation of metallic fumes. Reacts violently with (strong) bases.

10.2. Chemical stability
Hygroscopic.

10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid
None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials
Oxidizing agent.

10.6. Hazardous decomposition products
No additional information available

SECTION 11: Toxicological information
11.1. Information on toxicological effects
Likely routes of exposure: Skin and eyes contact.
Acute toxicity: Oral: Harmful if swallowed.

<table>
<thead>
<tr>
<th>Zinc Sulfate Monohydrate (7446-19-7)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat: ≈ 1710 mg/kg</td>
</tr>
<tr>
<td>LD50 dermal rat: &gt; 2000 mg/kg</td>
</tr>
<tr>
<td>ATE US (oral): 500,000 mg/kg body weight</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: Not classified
pH: 4.0 (5 %)

Serious eye damage/irritation: Causes serious eye damage.
pH: 4.0 (5 %)

Respiratory or skin sensitization: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified (Lack of data)

Reproductive toxicity: Not classified
Specific target organ toxicity (single exposure): Not classified
Specific target organ toxicity (repeated exposure): Not classified

Aspiration hazard: Not classified

Symptoms/injuries after inhalation: AFTER INHALATION OF DUST: Coughing.
Symptoms/injuries after skin contact: Slight irritation.
Symptoms/injuries after eye contact: Irritation of the eye tissue. Visual disturbances. Serious damage to eyes.

Chronic symptoms: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Skin rash/inflammation. Gastrointestinal complaints. Inflammation/damage of the eye tissue.
SECTION 12: Ecological information

12.1. Toxicity

Ecology - general: Dangerous for the environment. Very toxic to aquatic life with long lasting effects.
Ecology - air: Not dangerous for the ozone layer.
Ecology - water: Very toxic to aquatic life with long lasting effects.

Zinc Sulfate Monohydrate (7446-19-7)

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>1.7 mg/l (96 h; Poecilia reticulata; Anhydrous form)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>0.56 mg/l (48 h; Daphnia magna; Anhydrous form)</td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>2.4 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Anhydrous form)</td>
</tr>
<tr>
<td>EC50 Daphnia 2</td>
<td>1 mg/l (24 h; Daphnia magna; Anhydrous form)</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

Zinc Sulfate Monohydrate (7446-19-7)

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
<td>Biodegradability: not applicable.</td>
</tr>
<tr>
<td>Biochemical oxygen demand (BOD)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Chemical oxygen demand (COD)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>ThOD</td>
<td>Not applicable</td>
</tr>
<tr>
<td>BOD (% of ThOD)</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

12.3. Bioaccumululative potential

Zinc Sulfate Monohydrate (7446-19-7)

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCF fish 1</td>
<td>59 - 242 (Cyprinus carpio; Anhydrous form)</td>
</tr>
<tr>
<td>BCF fish 2</td>
<td>59 - 242 (Cyprinus carpio; Test duration: 8 weeks)</td>
</tr>
<tr>
<td>Log Pow</td>
<td>Not applicable (inorganic substance)</td>
</tr>
<tr>
<td>Log Kow</td>
<td>Not applicable (inorganic substance)</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>Bioaccumulable.</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil

Zinc Sulfate Monohydrate (7446-19-7)

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobility in soil</td>
<td>No additional information available</td>
</tr>
</tbody>
</table>

12.5. Other adverse effects

Effect on the global warming: No known ecological damage caused by this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations: Remove waste in accordance with local and/or national regulations. Recycle/reuse.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description: UN3077 Environmentally hazardous substances, solid, n.o.s., 9, III

UN-No. (DOT): UN3077

Proper Shipping Name (DOT): Environmentally hazardous substances, solid, n.o.s.

Hazard Classes (DOT): 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140

Hazard labels (DOT): 9 - Class 9 (Miscellaneous dangerous materials)

Packing group (DOT): III - Minor Danger

Dangerous for the environment: Yes
Zinc Sulfate Monohydrate
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Marine pollutant : Yes

DOT Packaging Non Bulk (49 CFR 173.xxx) : 213
DOT Packaging Bulk (49 CFR 173.xxx) : 240
DOT Symbols : G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102) : 8 - A hazardous substance that is not a hazardous waste may be shipped under the shipping description "Other regulated substances, liquid or solid, n.o.s.", as appropriate. In addition, for solid materials, special provision B54 applies. 146 - This description may be used for a material that poses a hazard to the environment but does not meet the definition for a hazardous waste or a hazardous substance, as defined in 171.8 of this subchapter, or any hazard class as defined in Part 173 of this subchapter, if it is designated as environmentally hazardous by the Competent Authority of the country of origin, transit or destination. 335 - Mixtures of solids that are not subject to this subchapter and environmentally hazardous liquids or solids may be classified as "Environmentally hazardous substances, solid, n.o.s."
UN3077 and may be transported under this entry, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each transport unit must be leak-proof when used as bulk packaging.
A112 - Notwithstanding the quantity limits shown in Column (9A) and (9B) for this entry, the following IBCs are authorized for transportation aboard passenger and cargo-only aircraft. Each IBC may not exceed a maximum net quantity of 1,000 kg:
b. Rigid plastics: 11H1, 11H2, 21H1 and 21H2
c. Composite with plastic inner receptacle: 11HZ1, 11HZ2, 21HZ1 and 21HZ2
d. Fiberboard: 11G
e. Wooden: 11C, 11D and 11F (with inner liners)
f. Flexible: 13H2, 13H3, 13H4, 13H5, 13L2, 13L3, 13L4, 13M1 and 13M2 (flexible IBCs must be silt-proof and water resistant or must be fitted with a silt-proof and water resistant liner). B54 - Open-top, silt-proof rail cars are also authorized.
IBB - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2).
IP3 - Flexible IBCs must be silt-proof and water-resistant or must be fitted with a silt-proof and water-resistant liner.
N20 - A 5M1 multi-wall paper bag is authorized if transported in a closed transport vehicle. T1 - 1.5 178.274(d)(2) Normal............. 178.275(d)(2)
TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.

DOT Packaging Exceptions (49 CFR 173.xxx) : 155
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : No limit
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : No limit
DOT Vessel Stowage Location : A - The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel.

Additional information
Other information : No supplementary information available.

Transport by sea
UN-No. (IMDG) : 3077
Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Zinc Sulfate Monohydrate
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Class (IMDG) : 9 - Miscellaneous dangerous compounds
Packing group (IMDG) : III - substances presenting low danger
EmS-No. (1) : F-A
EmS-No. (2) : S-F

Air transport
UN-No. (IATA) : 3077
Proper Shipping Name (IATA) : Environmentally hazardous substance, soldi, n.o.s.
Class (IATA) : 9 - Miscellaneous Dangerous Goods
Packing group (IATA) : III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations
Zinc Sulfate Monohydrate (7446-19-7)
SARA Section 311/312 Hazard Classes Immediate (acute) health hazard

15.2. International regulations
CANADA
Zinc Sulfate Monohydrate (7446-19-7)
Listed on the Canadian DSL (Domestic Substances List) inventory.

EU-Regulations
Zinc Sulfate Monohydrate (7446-19-7)
Listed on European List of Notified Chemical Substances (ELINCS)

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Acute Tox. 4 (Oral) H302
Eye Dam. 1 H318
Aquatic Acute 1 H400
Aquatic Chronic 1 H410
Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]
Xn; R22
Xi; R41
N; R50/53
Full text of R-phrases: see section 16

National regulations
Zinc Sulfate Monohydrate (7446-19-7)
Listed on Inventory of Chemicals and Chemical Substances (PICCS)
Listed on Inventory of Existing Chemical Substances (IECSC)
Listed on New Zealand - Inventory of Chemicals (NZIoC)
Listed on the AIICS (the Australian Inventory of Chemical Substances)
The anhydrous form of this material is listed on the United States TSCA (Toxic Substance Control Act) inventory

15.3. US State regulations
Zinc Sulfate Monohydrate(7446-19-7)
State or local regulations
U.S. - Massachusetts - Right To Know List
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

Indication of changes : Initial SDS.
Zinc Sulfate Monohydrate
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Full text of H-phrases:

<table>
<thead>
<tr>
<th>Acute Tox. 4 (Oral)</th>
<th>Acute toxicity (oral) Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aquatic Acute 1</td>
<td>Hazardous to the aquatic environment - Acute Hazard Category 1</td>
</tr>
<tr>
<td>Aquatic Chronic 1</td>
<td>Hazardous to the aquatic environment - Chronic Hazard Category 1</td>
</tr>
<tr>
<td>Eye Dam. 1</td>
<td>Serious eye damage/eye irritation Category 1</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H400</td>
<td>Very toxic to aquatic life</td>
</tr>
<tr>
<td>H410</td>
<td>Very toxic to aquatic life with long lasting effects</td>
</tr>
</tbody>
</table>

NFPA health hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal Protection : E

E - Safety glasses, Gloves, Dust respirator

SDS US Custom (-ADR)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product