# Cupric Sulfate Anhydrous

## Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 06/01/2015

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

### 1.1. Product identifier

<table>
<thead>
<tr>
<th>Product form</th>
<th>Substance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Substance name</td>
<td>Cupric Sulfate Anhydrous</td>
</tr>
<tr>
<td>Chemical name</td>
<td>Copper Sulfate Anhydrous</td>
</tr>
<tr>
<td>CAS No</td>
<td>7758-98-7</td>
</tr>
<tr>
<td>Product code</td>
<td>2298, 2304, 2307 &amp; 2315</td>
</tr>
<tr>
<td>Formula</td>
<td>CuSO₄</td>
</tr>
<tr>
<td>Synonyms</td>
<td>bcs copper fungicide / copper sulfate basic / copper sulphate / copper(I) sulfate, anhydrous / coppermonosulfate / coppersulfate / CP basic sulfate / cupric sulfate / cupric sulfate, anhydrous / Environmentally hazardous substance, solid, n.o.s. / griffin super Cu / hydrocyanite / hydrocyanite, natural / incracide 10a / incracide e51 / kilcop 53 / kobasic / sulfuric acid copper(2+) salt (1:1) / sulfuric acid copper(I)salt / tncs 53 / trinagle</td>
</tr>
<tr>
<td>BIG no</td>
<td>10745</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Use of the substance/mixture</th>
<th>Algicide</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Fungicide</td>
</tr>
<tr>
<td></td>
<td>Molluscicide</td>
</tr>
<tr>
<td></td>
<td>Chemical raw material</td>
</tr>
<tr>
<td></td>
<td>industrial use: component</td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>Emergency number</th>
<th>CHEMTREC 800-424-9300</th>
</tr>
</thead>
</table>

---

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

<table>
<thead>
<tr>
<th>Classification (GHS-US)</th>
<th>Acute Tox. 4 (Oral)</th>
<th>H302</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Skin Irrit. 2</td>
<td>H315</td>
</tr>
<tr>
<td></td>
<td>Aquatic Acute 1</td>
<td>H400</td>
</tr>
<tr>
<td></td>
<td>Aquatic Chronic 1</td>
<td>H410</td>
</tr>
</tbody>
</table>

Full text of H-phrases: see section 16

### 2.2. Label elements

#### GHS-US labeling

<table>
<thead>
<tr>
<th>Hazard pictograms (GHS-US)</th>
<th>![GHS07] ![GHS09]</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Signal word (GHS-US)</th>
<th>Warning</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Hazard statements (GHS-US)</th>
<th>H302 - Harmful if swallowed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>H315 - Causes skin irritation</td>
</tr>
<tr>
<td></td>
<td>H319 - Causes serious eye irritation</td>
</tr>
<tr>
<td></td>
<td>H400 - Very toxic to aquatic life</td>
</tr>
<tr>
<td></td>
<td>H410 - Very toxic to aquatic life with long lasting effects</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Precautionary statements (GHS-US)</th>
<th>P264 - Wash hands, forearms and face thoroughly after handling</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>P270 - Do not eat, drink or smoke when using this product</td>
</tr>
<tr>
<td></td>
<td>P273 - Avoid release to the environment</td>
</tr>
<tr>
<td></td>
<td>P280 - Wear protective gloves, eye protection</td>
</tr>
<tr>
<td></td>
<td>P301+P312 - If swallowed: Call a doctor if you feel unwell</td>
</tr>
</tbody>
</table>
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P302+P352 - If on skin: Wash with plenty of water
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P321 - Specific treatment (see First aid measures on this label)
P330 - Rinse mouth
P332+P313 - If skin irritation occurs: Get medical advice/attention
P337+P313 - If eye irritation persists: Get medical advice/attention
P362+P364 - Take off contaminated clothing and wash it before reuse
P391 - Collect spillage
P501 - Dispose of contents/container to to hazardous or special waste collection point, in accordance with local, regional, national, and/or international regulation

2.3. Other hazards
No additional information available

2.4. Unknown acute toxicity (GHS US)
Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cupric Sulfate Anhydrous</td>
<td>(CAS No) 7758-98-7</td>
<td>100</td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Irrit. 2, H315</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. Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

First-aid measures after skin contact:
Wash immediately with lots of water. Do not apply (chemical) neutralizing agents. Take victim to a doctor if irritation persists. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact:
Rinse immediately with plenty of water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists. Rinse eyes with water as a precaution.

First-aid measures after ingestion:

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

Symptoms/injuries after inhalation:
AFTER INHALATION OF DUST: Dry/sore throat. Coughing. ON HEATING: Metal fume fever.

Symptoms/injuries after skin contact:
Tingling/irritation of the skin. Irritation.

Symptoms/injuries after eye contact:
Irritation of the eye tissue.

Symptoms/injuries after ingestion:

Chronic symptoms:

4.3. Indication of any immediate medical attention and special treatment needed
Treat symptomatically.
SECTION 5: Firefighting measures

5.1. 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. INDIRECT FIRE HAZARD. Reactions involving a fire hazard: see "Reactivity Hazard".

Explosion hazard: DIRECT EXPLOSION HAZARD. No data available on direct explosion hazard. INDIRECT EXPLOSION HAZARD. No data available on indirect explosion hazard.

Reactivity: Reacts on exposure to water (moisture) with (some) metals. On burning: release of toxic and corrosive gases/vapours (sulphur oxides) and formation of metallic fumes. Reacts exothermically with (some) compounds: (increased) risk of fire. Reacts violently with (strong) reducers.

5.3. Advice for firefighters

Precautionary measures fire: Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. 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


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. 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. 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: Ensure good ventilation of the work station. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Avoid raising dust. Keep away from naked flames/heat. Observe strict hygiene. Keep container tightly closed. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures: Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.

Storage conditions: Keep container tightly closed. Keep cool. Store in a dry place. Store in a well-ventilated place.

Incompatible products: MAGNESIUM POWDER, hydroxylamine phosphate. HYDROXYLAMINE SULPHATE.

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

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

Storage area: Store in a dry area. Keep container in a well-ventilated place. May be stored under nitrogen. Meet the legal requirements. Keep out of direct sunlight.

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

Packaging materials: SUITABLE MATERIAL: No data available. MATERIAL TO AVOID: No data available.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Cupric Sulfate Anhydrous (7758-98-7)

<table>
<thead>
<tr>
<th>ACGIH</th>
<th>Not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSHA</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Appropriate engineering controls: Ensure good ventilation of the work station. Extraction to remove dust at its source. Eye fountain.


Materials for protective clothing: GIVE GOOD RESISTANCE: chloroprene rubber. chlorosulfonated polyethylene. butyl rubber. PVC. viton.

Hand protection: Gloves.


Respiratory protection: Dust production: dust mask with filter type P2.

Environmental exposure controls: Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state</th>
<th>Solid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Crystalline solid. Crystalline powder.</td>
</tr>
<tr>
<td>Color</td>
<td>White-grey to green-blue</td>
</tr>
<tr>
<td>Odor</td>
<td>Odourless</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>4 (3.2 %)</td>
</tr>
<tr>
<td>pH solution</td>
<td>3.2 %</td>
</tr>
<tr>
<td>Melting point</td>
<td>560 °C</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Relative evaporation rate (butyl acetate=1)</td>
<td>No data available</td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Relative vapor density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Specific gravity / density</td>
<td>3600 kg/m³</td>
</tr>
<tr>
<td>Molecular mass</td>
<td>159.61 g/mol</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water. Soluble in methanol. Soluble in glycerol. Water: 20 g/100ml Ethanol: 1.0 g/100ml</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Kow</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>560 °C</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
</tbody>
</table>

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

SECTION 10: Stability and reactivity

10.1. Reactivity
Reacts on exposure to water (moisture) with (some) metals. On burning: release of toxic and corrosive gases/vapours (sulphur oxides) and formation of metallic fumes. Reacts exothermically with (some) compounds: (increased) risk of fire. Reacts violently with (strong) reducers.

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
hydroxylamine phosphate. HYDROXYLAMINE SULFATE. MAGNESIUM POWDER.

10.6. Hazardous decomposition products
Sulphur oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity : Oral: Harmful if swallowed.

<table>
<thead>
<tr>
<th>Toxicological Effect</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cupric Sulfate Anhydrous (7758-98-7)</td>
<td></td>
</tr>
<tr>
<td>LD50 oral rat</td>
<td>300 mg/kg (Rat)</td>
</tr>
<tr>
<td>LD50 dermal rat</td>
<td>&gt; 2000 mg/kg (OECD 402 method) (hydrated product) (Published data)</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>&gt; 1000 mg/kg (Rabbit)</td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>500.000 mg/kg body weight</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Causes skin irritation. pH: 4 (3.2 %)</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Not classified <em>(Based on available data, the classification criteria are not met)</em> pH: 4 (3.2 %)</td>
</tr>
</tbody>
</table>
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Respiratory or skin sensitization: Not classified
(Based on available data, the classification criteria are not met)

Germ cell mutagenicity: Not classified
(Based on available data, the classification criteria are not met)

Carcinogenicity: Not classified
(Lack of data)

Reproductive toxicity: Not classified
(Based on available data, the classification criteria are not met)

Specific target organ toxicity (single exposure): Not classified
(Lack of data)

Specific target organ toxicity (repeated exposure): Not classified
(Based on available data, the classification criteria are not met)

Cupric Sulfate Anhydrous (7758-98-7)

NOAEL (oral, rat, 90 days) 1000 mg/kg bodyweight/day (hydrated product; Published data)

Aspiration hazard: Not classified
(Not applicable)

Potential Adverse human health effects and symptoms:

Symptoms/injuries after inhalation: AFTER INHALATION OF DUST: Dry/sore throat. Coughing. ON HEATING: Metal fume fever.

Symptoms/injuries after skin contact: Tingling/irritation of the skin. Irritation.

Symptoms/injuries after eye contact: Irritation 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 classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009). TA-Luft Klasse 5.2.2/III.


Cupric Sulfate Anhydrous (7758-98-7)

LC50 fish 1 0.0199 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Soft water)
EC50 Daphnia 1 0.01 mg/l (48 h; Daphnia magna; Soft water)
LC50 fish 2 0.298 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Hard water)
LC50 other aquatic organisms 2 0.55 g/l (12 hr; Shell; Copper Compounds)
EC50 Daphnia 2 0.2 mg/l (48 h; Daphnia magna; Hard water)
TLM fish 1 3.8 ppm 24 h; Salmo gairdneri (Oncorhynchus mykiss)
Threshold limit algae 2 1.1 mg/l (Scenedesmus quadricauda)

12.2. Persistence and degradability

Cupric Sulfate Anhydrous (7758-98-7)

Persistence and degradability: Biodegradability: not applicable.

Biochemical oxygen demand (BOD): Not applicable

Chemical oxygen demand (COD): Not applicable

ThOD: Not applicable

BOD (% of ThOD): Not applicable
12.3. Bioaccumulative potential

| Cupric Sulfate Anhydrous (7758-98-7) | 13 Cyprinus Carpio
| Bioconcentration factor (BCF REACH) | Bioaccumulative potential | Bioaccumulable.

12.4. Mobility in soil

| Cupric Sulfate Anhydrous (7758-98-7) |
| Ecology - soil | Toxic to flora.

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 treatment methods : Dispose in a safe manner in accordance with local/national regulations.
Waste disposal recommendations : Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle/reuse. Precipitate/make insoluble. Remove to an authorized dump (Class I). Do not discharge into the sewer.

Additional information : LWCA (the Netherlands): KGA category 05. Hazardous waste according to Directive 2008/98/EC.

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
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 Part 171 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:

- Metal: 11A, 11B, 11N, 21A, 21B and 21N
- Rigid plastics: 11H1, 11H2, 21H1 and 21H2
- Composite with plastic inner receptacle: 11HZ1, 11HZ2, 21HZ1 and 21HZ2
- Fiberboard: 11G
- Wooden: 11C, 11D and 11F (with inner liners)
- 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, 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.

**Transport by sea**

- UN-No. (IMDG): 3077
- Proper Shipping Name (IMDG): ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
- 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, SOLID, N.O.S.
- Class (IATA): 9 - Miscellaneous Dangerous Goods

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05/25/2015
EN (English US)
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Packing group (IATA) : III - Minor Danger

### SECTION 15: Regulatory information

#### 15.1: US Federal regulations

**Cupric Sulfate Anhydrous (7758-98-7)**
Listed on the United States TSCA (Toxic Substances Control Act) inventory

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### 15.2: International regulations

**CANADA**

**Cupric Sulfate Anhydrous (7758-98-7)**
Listed on the Canadian DSL (Domestic Substances List) inventory.

**EU-Regulations**

**Cupric Sulfate Anhydrous (7758-98-7)**
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

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Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

<table>
<thead>
<tr>
<th>Acute Tox. 4 (Oral)</th>
<th>H302</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Irrit. 2</td>
<td>H315</td>
</tr>
<tr>
<td>Aquatic Acute 1</td>
<td>H400</td>
</tr>
<tr>
<td>Aquatic Chronic 1</td>
<td>H410</td>
</tr>
</tbody>
</table>

Full text of H-phrases: see section 16

**Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]**

Xn; R22
Xi; R36/38
N; R50/53

Full text of R-phrases: see section 16

**National regulations**

**Cupric Sulfate Anhydrous (7758-98-7)**
Listed on the AICS (the Australian Inventory of Chemical Substances)
Listed on Inventory of Existing Chemical Substances (IECSC)
Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.
Listed on the Korean ECL (Existing Chemical List) inventory.
Listed on INSQ (Mexican national Inventory of Chemical Substances)
Listed on Inventory of Chemicals and Chemical Substances (PICCS)

**Cupric Sulfate Anhydrous (7758-98-7)**
Listed on the AICS (the Australian Inventory of Chemical Substances)
Listed on Inventory of Existing Chemical Substances (IECSC)
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Listed on the Korean ECL (Existing Chemical List) inventory.
Listed on INSQ (Mexican national Inventory of Chemical Substances)
Listed on New Zealand - Inventory of Chemicals (NZIoC)
Listed on Inventory of Chemicals and Chemical Substances (PICCS)

#### 15.3: US State regulations

**Cupric Sulfate Anhydrous(7758-98-7)**

State or local regulations
- U.S. - Massachusetts - Right To Know List
- U.S. - New Jersey - Right to Know Hazardous Substance List
- U.S. - Pennsylvania - RTK (Right to Know) List
## SECTION 16: Other information

### Full text of H-phrases:

<table>
<thead>
<tr>
<th>H-phrase</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 4 (Oral)</td>
<td>Acute toxicity (oral) Category 4</td>
</tr>
<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>Skin Irrit. 2</td>
<td>Skin corrosion/irritation Category 2</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</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**: 2 - Normally unstable and readily undergo violent decomposition but do not detonate. Also: may react violently with water or may form potentially explosive mixtures with water.

**HMIS III Rating**

<table>
<thead>
<tr>
<th>Health</th>
<th>2 Moderate Hazard - Temporary or minor injury may occur</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability</td>
<td>0 Minimal Hazard - Materials that will not burn</td>
</tr>
<tr>
<td>Physical</td>
<td>2 Moderate Hazard - Materials that are unstable and may undergo violent chemical changes at normal temperature and pressure with low risk for explosion. Materials may react violently with water or form peroxides upon exposure to air.</td>
</tr>
<tr>
<td>Personal Protection</td>
<td>E - Safety glasses, Gloves, Dust respirator</td>
</tr>
</tbody>
</table>

**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.