SECTION 1: IDENTIFICATION

Product Identifier
Product Form: Mixture
Product Name: Sulfuric Acid, 30 - 51%
Formula: H2SO4

Intended Use of the Product
Industrial applications; battery electrolyte

Name, Address, and Telephone of the Responsible Party
Manufacturer
CHEMTRADE LOGISTICS INC.
155 Gordon Baker Road
Suite 300
Toronto, Ontario M2H 3N5
For SDS Info: (416) 496-5856
www.chemtradelogistics.com

Emergency Telephone Number
Emergency Number: Canada: CANUTEC +1-613-996-6666 / US: CHEMTREC +1-800-424-9300
INTERNATIONAL: +1-703-741-5970
Chemtrade Emergency Contact: (866) 416-4404
For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, call CHEMTREC – Day or Night

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture
GHS Classification
Met. Corr. 1 H290
Skin Corr. 1A H314
Eye Dam. 1 H318
Carc. 1A H350
Aquatic Acute 3 H402

Full text of hazard classes and H-statements: see section 16

Label Elements
GHS Labeling
Hazard Pictograms:

Signal Word: Danger

Hazard Statements:
H290 - May be corrosive to metals.
H314 - Causes severe skin burns and eye damage.
H318 - Causes serious eye damage.
H350 - May cause cancer (Inhalation).
H402 - Harmful to aquatic life.

Precautionary Statements:
P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P234 - Keep only in original container.
P260 - Do not breathe vapors, mist, or spray.
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, and eye protection.
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
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P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P310 - Immediately call a POISON CENTER or doctor.
P321 - Specific treatment (see section 4 on this SDS).
P363 - Wash contaminated clothing before reuse.
P390 - Absorb spillage to prevent material damage.
P405 - Store locked up.
P406 - Store in corrosive resistant container with a resistant inner liner.
P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

Unknown acute toxicity

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Mixture</th>
<th>Product Identifier</th>
<th>%*</th>
<th>GHS Ingredient Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid**</td>
<td>(CAS-No.) 7664-93-9</td>
<td>30 - 51</td>
<td>Met. Corr. 1, H290</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Corr. 1A, H314</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Dam. 1, H318</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Carc. 1A, H350</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Acute 3, H402</td>
</tr>
<tr>
<td>Water</td>
<td>(CAS-No.) 7732-18-5</td>
<td>60 - 49</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

Full text of H-phrases: see section 16
*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).
**Strong inorganic acid aerosols/mists containing this substance are carcinogenic to humans via inhalation. Under normal conditions of use this route of exposure is not expected.

SECTION 4: FIRST AID MEASURES

Description of First-aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

Skin Contact: Remove contaminated clothing. Immediately flush skin with plenty of water for at least 30 minutes. Get immediate medical advice/attention. Wash contaminated clothing before reuse.

Eye Contact: Rinse cautiously with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

Most Important Symptoms and Effects Both Acute and Delayed

General: Corrosive to eyes, respiratory system and skin. May cause cancer.

Inhalation: May be corrosive to the respiratory tract.

Skin Contact: Causes severe irritation which will progress to chemical burns.

Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva.

Ingestion: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.
**Sulfuric Acid, 30 - 51%**

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---

**Chronic Symptoms**: Strong inorganic acid mists containing sulfuric acid are carcinogenic to humans. Prolonged inhalation of fumes or mists may cause erosion of the teeth.

**Indication of Any Immediate Medical Attention and Special Treatment Needed**

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

---

**SECTION 5: FIRE-FIGHTING MEASURES**

**Extinguishing Media**

*Suitable Extinguishing Media*: Foam, carbon dioxide, dry chemical.

*Unsuitable Extinguishing Media*: Do not use water. Do not get water inside containers. Do not apply water stream directly at source of leak.

**Special Hazards Arising From the Substance or Mixture**

- **Fire Hazard**: Not flammable.
- **Explosion Hazard**: Product is not explosive.
- **Reactivity**: May be corrosive to metals. Contact with metals may evolve flammable hydrogen gas. May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction. This product may act as an oxidizer.

**Advice for Firefighters**

- **Precautionary Measures Fire**: Exercise caution when fighting any chemical fire.
- **Firefighting Instructions**: Use water spray or fog for cooling exposed containers.
- **Protection During Firefighting**: Do not enter fire area without proper protective equipment, including respiratory protection.
- **Hazardous Combustion Products**: Toxic fumes are released.
- **Other Information**: Do not allow run-off from fire fighting to enter drains or water courses.

**Reference to Other Sections**

Refer to Section 9 for flammability properties.

---

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective Equipment and Emergency Procedures**

**General Measures**: Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist or spray. Do not handle until all safety precautions have been read and understood.

**For Non-Emergency Personnel**

- **Protective Equipment**: Use appropriate personal protective equipment (PPE).
- **Emergency Procedures**: Evacuate unnecessary personnel.

**For Emergency Personnel**

- **Protective Equipment**: Equip cleanup crew with proper protection.
- **Emergency Procedures**: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

**Environmental Precautions**

Prevent entry to sewers and public waters. Avoid release to the environment.

**Methods and Materials for Containment and Cleaning Up**

- **For Containment**: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.
- **Methods for Cleaning Up**: Clean up spills immediately and dispose of waste safely. Absorb spillage to prevent material damage. Cautiously neutralize spilled liquid. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

**Reference to Other Sections**

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

---

**SECTION 7: HANDLING AND STORAGE**

**Precautions for Safe Handling**

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle empty containers with care because they may still present a hazard. Do not get in eyes, on skin, or on clothing. Do not breathe vapors, mist, spray. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

**Additional Hazards When Processed**: May be corrosive to metals. May release corrosive vapors. NEVER pour water into this substance; when dissolving or diluting always add it slowly to the water.
Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

**Conditions for Safe Storage, Including Any Incompatibilities**

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from extremely high or low temperatures and incompatible materials. Store in original container or corrosive resistant and/or lined container.


**Specific End Use(s)**

Industrial applications; battery electrolyte

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control Parameters**

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

<table>
<thead>
<tr>
<th>Sulfuric acid (7664-93-9)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Mexico</em></td>
<td></td>
</tr>
<tr>
<td>USA ACGIH</td>
<td>ACGIH TWA (mg/m³)</td>
</tr>
<tr>
<td>USA ACGIH</td>
<td>ACGIH chemical category</td>
</tr>
<tr>
<td>USA OSHA</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
</tr>
<tr>
<td>USA NIOSH</td>
<td>NIOSH REL (TWA) (mg/m³)</td>
</tr>
<tr>
<td>USA IDLH</td>
<td>US IDLH (mg/m³)</td>
</tr>
<tr>
<td><em>Alberta</em></td>
<td>OEL STEL (mg/m³)</td>
</tr>
<tr>
<td><em>Alberta</em></td>
<td>OEL TWA (mg/m³)</td>
</tr>
<tr>
<td><em>British Columbia</em></td>
<td>OEL TWA (mg/m³)</td>
</tr>
<tr>
<td><em>Manitoba</em></td>
<td>OEL TWA (mg/m³)</td>
</tr>
<tr>
<td><em>New Brunswick</em></td>
<td>OEL STEL (mg/m³)</td>
</tr>
<tr>
<td><em>New Brunswick</em></td>
<td>OEL TWA (mg/m³)</td>
</tr>
<tr>
<td><em>Newfoundland &amp; Labrador</em></td>
<td>OEL TWA (mg/m³)</td>
</tr>
<tr>
<td><em>Nova Scotia</em></td>
<td>OEL TWA (mg/m³)</td>
</tr>
<tr>
<td><em>Nunavut</em></td>
<td>OEL STEL (mg/m³)</td>
</tr>
<tr>
<td><em>Nunavut</em></td>
<td>OEL TWA (mg/m³)</td>
</tr>
<tr>
<td><em>Northwest Territories</em></td>
<td>OEL STEL (mg/m³)</td>
</tr>
<tr>
<td><em>Northwest Territories</em></td>
<td>OEL TWA (mg/m³)</td>
</tr>
<tr>
<td><em>Ontario</em></td>
<td>OEL TWA (mg/m³)</td>
</tr>
<tr>
<td><em>Prince Edward Island</em></td>
<td>OEL TWA (mg/m³)</td>
</tr>
<tr>
<td><em>Québec</em></td>
<td>VECD (mg/m³)</td>
</tr>
<tr>
<td><em>Québec</em></td>
<td>VEMP (mg/m³)</td>
</tr>
<tr>
<td><em>Saskatchewan</em></td>
<td>OEL STEL (mg/m³)</td>
</tr>
<tr>
<td><em>Saskatchewan</em></td>
<td>OEL TWA (mg/m³)</td>
</tr>
<tr>
<td><em>Yukon</em></td>
<td>OEL STEL (mg/m³)</td>
</tr>
<tr>
<td><em>Yukon</em></td>
<td>OEL TWA (mg/m³)</td>
</tr>
</tbody>
</table>

**Exposure Controls**

**Appropriate Engineering Controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Sulfuric Acid, 30 - 51%

Materials for Protective Clothing: Acid-resistant clothing.
Hand Protection: Wear protective gloves.
Eye Protection: Chemical safety goggles and face shield.
Skin and Body Protection: Wear suitable protective clothing.
Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless to slight hydrocarbon and/or slight rotten eggs</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>0.3</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting Point</td>
<td>-37.4°C (-35.3°F) @ 30.79%; -55.2°C (-67.3°F) @ 39.92%; 36.4°C (33.5°F) @ 49.47%</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>109°C (229°F) @ 32.05%; 118°C (244°F) @ 42.63%; 127°C (260°F) @ 50.87%</td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Lower Flammable Limit</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Upper Flammable Limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>0.52 @ 30%; 2.10 @ 40%; 4.60 @ 50%</td>
</tr>
<tr>
<td>Relative Vapor Density at 20°C</td>
<td>3.4 (air=1)</td>
</tr>
<tr>
<td>Relative Density</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.2288 @ 30.79%; 1.3063 @ 39.92%; 1.3942 @ 49.47%</td>
</tr>
<tr>
<td>Solubility</td>
<td>Water: Soluble in cold and hot water</td>
</tr>
<tr>
<td></td>
<td>Acetone: Partially soluble</td>
</tr>
<tr>
<td></td>
<td>Organic solvent: Partially soluble in methanol</td>
</tr>
<tr>
<td>Partition Coefficient: N-Octanol/Water</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available</td>
</tr>
</tbody>
</table>

SECTION 10: STABILITY AND REACTIVITY

Reactivity: May be corrosive to metals. Contact with metals may evolve flammable hydrogen gas. May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction. This product may act as an oxidizer.
Chemical Stability: Stable under recommended handling and storage conditions (see section 7).
Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
Conditions to Avoid: Extremely high or low temperatures and incompatible materials.
Hazardous Decomposition Products: Thermal decomposition generates: Corrosive vapors.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity (Oral): Not classified
Acute Toxicity (Dermal): Not classified
Acute Toxicity (Inhalation): Not classified
LD50 and LC50 Data: Not available
Skin Corrosion/Irritation: Causes severe skin burns and eye damage.
Sulfuric Acid, 30 - 51%  
Safety Data Sheet  

**pH:** 0.3  
**Eye Damage/Irritation:** Causes serious eye damage.  
**pH:** 0.3  
**Respiratory or Skin Sensitization:** Not classified  
**Germ Cell Mutagenicity:** Not classified  
**Carcinogenicity:** May cause cancer (Inhalation).  
**Specific Target Organ Toxicity (Repeated Exposure):** Not classified  
**Reproductive Toxicity:** Not classified  
**Specific Target Organ Toxicity (Single Exposure):** Not classified  
**Aspiration Hazard:** Not classified  
**Symptoms/Effects After Inhalation:** May be corrosive to the respiratory tract  
**Symptoms/Effects After Skin Contact:** Causes severe irritation which will progress to chemical burns.  
**Symptoms/Effects After Eye Contact:** Causes permanent damage to the cornea, iris, or conjunctiva.  
**Symptoms/Effects After Ingestion:** May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.  
**Chronic Symptoms:** Strong inorganic acid mists containing sulfuric acid are carcinogenic to humans. Prolonged inhalation of fumes or mists may cause erosion of the teeth.

**Information on Toxicological Effects - Ingredient(s)**

**LD50 and LC50 Data:**

<table>
<thead>
<tr>
<th>Water (7732-18-5)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LD50 Oral Rat</strong></td>
</tr>
<tr>
<td><strong>Sulfuric acid (7664-93-9)</strong></td>
</tr>
<tr>
<td><strong>LD50 Oral Rat</strong></td>
</tr>
<tr>
<td><strong>LC50 Inhalation Rat</strong></td>
</tr>
</tbody>
</table>

**Sulfuric acid (7664-93-9)**

| IARC Group | 1 |
| OSHA Hazard Communication Carcinogen List | In OSHA Hazard Communication Carcinogen list. |
| Strong inorganic acid mists containing sulfuric acid |
| National Toxicology Program (NTP) Status | Known Human Carcinogens. |

**SECTION 12: ECOLOGICAL INFORMATION**

**Toxicity**

**Ecology - General:** Harmful to aquatic life.

<table>
<thead>
<tr>
<th>Sulfuric acid (7664-93-9)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LC50 Fish 1</strong></td>
</tr>
<tr>
<td><strong>LC50 Fish 2</strong></td>
</tr>
</tbody>
</table>

**Persistence and Degradability**

<table>
<thead>
<tr>
<th>Sulfuric Acid, 30 - 51%</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Persistence and Degradability</strong></td>
</tr>
</tbody>
</table>

**Bioaccumulative Potential**

<table>
<thead>
<tr>
<th>Sulfuric Acid, 30 - 51%</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bioaccumulative Potential</strong></td>
</tr>
<tr>
<td>Sulfuric acid (7664-93-9)</td>
</tr>
<tr>
<td><strong>BCF Fish 1</strong></td>
</tr>
</tbody>
</table>

**Mobility in Soil**  
Not available

**Other Adverse Effects**

**Other Information:** Avoid release to the environment.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal Recommendations:** Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

**Additional Information:** Container may remain hazardous when empty. Continue to observe all precautions.
Sulfuric Acid, 30 - 51%
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Ecology - Waste Materials: Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

SECTION 14: TRANSPORT INFORMATION
The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

<table>
<thead>
<tr>
<th>TRANSPORTATION CLASSIFICATION</th>
<th>DOT</th>
<th>TDG</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identification Number</td>
<td>UN2796</td>
<td>UN2796</td>
<td>UN2796</td>
<td>UN2796</td>
</tr>
<tr>
<td>Proper Shipping Name</td>
<td>SULFURIC ACID</td>
<td>SULFURIC ACID</td>
<td>SULPHURIC ACID</td>
<td>SULPHURIC ACID</td>
</tr>
<tr>
<td>Transport Hazard Class(es)</td>
<td>8</td>
<td>8</td>
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<td>8</td>
</tr>
<tr>
<td>Packing Group</td>
<td>II</td>
<td>II</td>
<td>II</td>
<td>II</td>
</tr>
<tr>
<td>Environmental Hazards</td>
<td>Marine Pollutant: No</td>
<td>Marine Pollutant: No</td>
<td>Marine Pollutant: No</td>
<td>Marine Pollutant: N/A</td>
</tr>
<tr>
<td>Emergency Response</td>
<td>ERG Number: 157</td>
<td>ERAP Index: Not applicable</td>
<td>EMS: F-A, S-B</td>
<td>ERG code (IATA): 8L</td>
</tr>
<tr>
<td>Additional Information</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

SECTION 15: REGULATORY INFORMATION
US Federal Regulations

<table>
<thead>
<tr>
<th>Chemical Name (CAS No.)</th>
<th>CERCLA RQ</th>
<th>EPCRA 304 RQ</th>
<th>SARA 302 TPQ</th>
<th>SARA 313</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid (7664-93-9)</td>
<td>1000 lb</td>
<td>1000 lb</td>
<td>1000 lb</td>
<td>Yes</td>
</tr>
</tbody>
</table>

SARA 311/312

| Sulfuric Acid, 30 - 51%       | Immediate (acute) health hazard. Delayed (chronic) health hazard. Reactive hazard |

US TSCA Flags  Not present

US State Regulations

California Proposition 65

<table>
<thead>
<tr>
<th>Chemical Name (CAS No.)</th>
<th>Carcinogenicity</th>
<th>Developmental Toxicity</th>
<th>Female Reproductive Toxicity</th>
<th>Male Reproductive Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid (7664-93-9)</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Strong inorganic acid mists containing sulfuric acid</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

State Right-To-Know Lists

| Sulfuric acid (7664-93-9)       | U.S. - Massachusetts - Right To Know List - Yes |
| U.S. - New Jersey - Right to Know Hazardous Substance List - Yes |
| U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List - Yes |
| U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances - No |
| U.S. - Pennsylvania - RTK (Right to Know) List - Yes |

Canadian Regulations

| Sulfuric acid (7664-93-9)       | Listed on the Canadian DSL (Domestic Substances List) |
| Not listed on the Canadian NDSL (Non-Domestic Substances List) |
### Sulfuric Acid, 30 - 51%

#### Safety Data Sheet


#### International Inventories/Lists

<table>
<thead>
<tr>
<th>Chemical Name (CAS No.)</th>
<th>Australia AICS</th>
<th>Turkey CICR</th>
<th>Korea ECL</th>
<th>EU EINECS</th>
<th>EU ELINCS</th>
<th>EU SVHC</th>
<th>EU NLP</th>
<th>Mexico INSQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid (7664-93-9)</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
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</table>

<table>
<thead>
<tr>
<th>Chemical Name (CAS No.)</th>
<th>China IECSC</th>
<th>Japan ENCS</th>
<th>Japan ISHL</th>
<th>Japan PDSCL</th>
<th>Japan PRTR</th>
<th>Philippines PICCS</th>
<th>New Zealand NZIOC</th>
<th>US TSCA</th>
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</thead>
<tbody>
<tr>
<td>Sulfuric acid (7664-93-9)</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
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#### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Date of Preparation or Latest Revision**: 05/07/2018

**Revision Summary**

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<th>Section</th>
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<td>16</td>
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**Other Information**: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada’s Hazardous Products Regulations (HPR).

**GHS Full Text Phrases**:

- Aquatic Acute 3: Hazardous to the aquatic environment - Acute Hazard Category 3
- Carc. 1A: Carcinogenicity Category 1A
- Eye Dam. 1: Serious eye damage/eye irritation Category 1
- Met. Corr. 1: Corrosive to metals Category 1
- Skin Corr. 1A: Skin corrosion/Irritation Category 1A
- H290: May be corrosive to metals
- H314: Causes severe skin burns and eye damage
- H318: Causes serious eye damage
- H350: May cause cancer
- H402: Harmful to aquatic life

#### NFPA Health Hazard

: 3

#### NFPA Fire Hazard

: 0

#### NFPA Reactivity Hazard

: 2

#### NFPA Specific Hazards

: W

#### HMIS Rating

- Health : 3
- Flammability : 0
- Physical : 2
- PPE : See Section 8

#### Abbreviations and Acronyms

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
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<tbody>
<tr>
<td>AICS</td>
<td>Australian Inventory of Chemical Substances</td>
</tr>
<tr>
<td>ACGIH</td>
<td>American Conference of Governmental Industrial Hygienists</td>
</tr>
<tr>
<td>AIHA</td>
<td>American Industrial Hygiene Association</td>
</tr>
<tr>
<td>ATE</td>
<td>Acute Toxicity Estimate</td>
</tr>
<tr>
<td>BCF</td>
<td>Bioconcentration factor</td>
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<tr>
<td>BEI</td>
<td>Biological Exposure Indices (BEI)</td>
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<tr>
<td>CAS No.</td>
<td>Chemical Abstracts Service number</td>
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<tr>
<td>CERCLA RQ</td>
<td>Comprehensive Environmental Response, Compensation, and Liability Act - Reportable Quantity</td>
</tr>
<tr>
<td>LC50</td>
<td>Median Lethal Concentration</td>
</tr>
<tr>
<td>LD50</td>
<td>Median Lethal Dose</td>
</tr>
<tr>
<td>LOAEL</td>
<td>Lowest Observed Adverse Effect Level</td>
</tr>
<tr>
<td>LOEC</td>
<td>Lowest-observed-effect Concentration</td>
</tr>
<tr>
<td>Log Pow</td>
<td>Log Octanol/water Partition Coefficient</td>
</tr>
<tr>
<td>NIOSH</td>
<td>National Institute for Occupational Safety and Health</td>
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<tr>
<td>NLP</td>
<td>Europe No Longer Polymers List</td>
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</table>

**Abbreviations and Acronyms**: This list includes various acronyms and abbreviations commonly used in the chemical industry to denote specific measurements, standards, and classifications. For example, LC50 refers to the Median Lethal Concentration, which is a measure of toxicity for chemicals. Similarly, LD50 stands for Median Lethal Dose, which is another measure of toxicity.
Sulfuric Acid, 30 - 51%

Safety Data Sheet


Handle product with due care and avoid unnecessary contact. This information is supplied under U.S. OSHA'S “Right to Know” (29 CFR 1910.1200) and Canada’s WHMIS regulations. Although certain hazards are described herein, we cannot guarantee these are the only hazards that exist. The information contained herein is based on data available to us and is believed to be true and accurate but it is not offered as a product specification. No warranty, expressed or implied, regarding the accuracy of this data, the hazards connected with the use of the product, or the results to be obtained from the use thereof, is made and Chemtrade and its affiliates assume no responsibility. Chemtrade is a member of the CIAC (Chemistry Industry Association of Canada) and adheres to the codes and principles of Responsible Care™.