SECTION 1: IDENTIFICATION

Product Identifier
   Product Form: Mixture
   Product Name: Ferric Sulfate 60%

Intended Use of the Product

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

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
   Acute Tox. 4 (Oral)   H302
   Skin Corr. 1A   H314
   Eye Dam. 1   H318
   Carc. 1A   H350

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.
   : H302 - Harmful if swallowed.
   : H314 - Causes severe skin burns and eye damage.
   : H318 - Causes serious eye damage.
   : H350 - May cause cancer (Inhalation).

Precautionary Statements
   : 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.
   : P270 - Do not eat, drink or smoke when using this product.
   : P280 - Wear protective gloves, protective clothing, and eye protection.
   : P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
   : P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.
Ferric Sulfate 60%
Safety Data Sheet

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.
P310 - Immediately call a POISON CENTER or doctor.
P321 - Specific treatment (see section 4 on this SDS).
P330 - Rinse mouth.
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
May produce explosive hydrogen gas on contact with incompatibilities or upon thermal decomposition.

Unknown acute toxicity
No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Mixture</th>
<th>Name</th>
<th>Product Identifier</th>
<th>%*</th>
<th>GHS Ingredient Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>(CAS-No.) 7732-18-5</td>
<td>25 - 64</td>
<td>Not classified</td>
<td></td>
</tr>
<tr>
<td>Sulfuric acid, iron(3+) salt (3:2)**</td>
<td>(CAS-No.) 10028-22-5</td>
<td>45 - 70*</td>
<td>Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318</td>
<td></td>
</tr>
<tr>
<td>Sulfuric acid***</td>
<td>(CAS-No.) 7664-93-9</td>
<td>1 – 5*</td>
<td>Skin Corr. 1A, H314 Eye Dam. 1, H318 Carc. 1A, H350 Aquatic Acute 3, H402</td>
<td></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%).
**As Fe2(SO4)3●9H2O (Dry Ferric Sulfate)
***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.
*The actual concentration of the ingredient(s) is withheld as a trade secret in accordance with Regulations Amending the Hazardous Products Regulations (HPR) SOR/2018-68 and 29 CFR 1910.1200.

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. Wash contaminated clothing before reuse. Get immediate medical advice/attention.
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: Harmful if swallowed. Causes severe skin burns and eye damage. May be corrosive to the respiratory tract.
Inhalation: May be corrosive to the respiratory tract.
Ferric Sulfate 60%
Safety Data Sheet

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

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

**Ingestion:** This material is harmful orally and can cause adverse health effects or death in significant amounts. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

**Chronic Symptoms:** None expected under normal conditions of use.

**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: Water spray, dry chemical, foam, carbon dioxide.
- Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

**Special Hazards Arising From the Substance or Mixture**
- Fire Hazard: Not considered flammable but may burn at high temperatures.
- Explosion Hazard: Contact with metallic substances may release flammable hydrogen gas.
- 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.

**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.
- 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.
- For Non-Emergency Personnel
  - Protective Equipment: Use appropriate personal protective equipment (PPE).
- 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. Collect spillage.

**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. Cautiously neutralize spilled liquid. Absorb spillage to prevent material damage. 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 mist, spray, vapors.

**Additional Hazards When Processed:** May be corrosive to metals. May release corrosive vapors.
**Ferric Sulfate 60%**
Safety Data Sheet

**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)**

**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>Mexico</td>
<td>OEL TWA (mg/m³)</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>Alberta</td>
<td>OEL STEL (mg/m³)</td>
</tr>
<tr>
<td>Alberta</td>
<td>OEL TWA (mg/m³)</td>
</tr>
<tr>
<td>British Columbia</td>
<td>OEL TWA (mg/m³)</td>
</tr>
<tr>
<td>Manitoba</td>
<td>OEL TWA (mg/m³)</td>
</tr>
<tr>
<td>New Brunswick</td>
<td>OEL STEL (mg/m³)</td>
</tr>
<tr>
<td>New Brunswick</td>
<td>OEL TWA (mg/m³)</td>
</tr>
<tr>
<td>Newfoundland &amp; Labrador</td>
<td>OEL TWA (mg/m³)</td>
</tr>
<tr>
<td>Nova Scotia</td>
<td>OEL TWA (mg/m³)</td>
</tr>
<tr>
<td>Nunavut</td>
<td>OEL STEL (mg/m³)</td>
</tr>
<tr>
<td>Nunavut</td>
<td>OEL TWA (mg/m³)</td>
</tr>
<tr>
<td>Northwest Territories</td>
<td>OEL STEL (mg/m³)</td>
</tr>
<tr>
<td>Northwest Territories</td>
<td>OEL TWA (mg/m³)</td>
</tr>
<tr>
<td>Ontario</td>
<td>OEL TWA (mg/m³)</td>
</tr>
<tr>
<td>Prince Edward Island</td>
<td>OEL TWA (mg/m³)</td>
</tr>
<tr>
<td>Québec</td>
<td>VECD (mg/m³)</td>
</tr>
<tr>
<td>Québec</td>
<td>VEMP (mg/m³)</td>
</tr>
<tr>
<td>Saskatchewan</td>
<td>OEL STEL (mg/m³)</td>
</tr>
<tr>
<td>Saskatchewan</td>
<td>OEL TWA (mg/m³)</td>
</tr>
<tr>
<td>Yukon</td>
<td>OEL STEL (mg/m³)</td>
</tr>
<tr>
<td>Yukon</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.
Ferric Sulfate 60%
Safety Data Sheet


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.

Environmental Exposure Controls: Do not allow the product to be released into the environment.
Consumer Exposure Controls: Do not eat, drink, or smoke during use.

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>Reddish brown</td>
</tr>
<tr>
<td>Odor</td>
<td>Not available</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting Point</td>
<td>&lt; -18 °C (&lt; -0.4 °F)</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not applicable</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 flammable</td>
</tr>
<tr>
<td>Lower Flammable Limit</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Upper Flammable Limit</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative Vapor Density at 20°C</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative Density</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.24 - 1.62</td>
</tr>
<tr>
<td>Solubility</td>
<td>100%</td>
</tr>
<tr>
<td>Partition Coefficient: N-Octanol/Water</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available</td>
</tr>
<tr>
<td>VOC content</td>
<td>&lt; 1 %</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.
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.
SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity (Oral): Oral: Harmful if swallowed.
Acute Toxicity (Dermal): Not classified
Acute Toxicity (Inhalation): Not classified

LD50 and LC50 Data:

<table>
<thead>
<tr>
<th>Ferric Sulfate 60%</th>
<th>802.10 mg/kg body weight</th>
</tr>
</thead>
</table>

Skin Corrosion/Irritation: Causes severe skin burns and eye damage.
pH: < 1

Eye Damage/Irritation: Causes serious eye damage.
pH: < 1

Respiratory or Skin Sensitization: Not classified
Germ Cell Mutagenicity: Not classified
Carcinogenicity: Not classified
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: This material is harmful orally and can cause adverse health effects or death in significant amounts. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.
Chronic Symptoms: None expected under normal conditions of use.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

<table>
<thead>
<tr>
<th>Sulfuric acid, iron(3+) salt (3:2) (10028-22-5)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 Oral Rat</td>
<td>500 - 2000 mg/kg</td>
</tr>
<tr>
<td>Sulfuric acid (7664-93-9)</td>
<td></td>
</tr>
<tr>
<td>LD50 Oral Rat</td>
<td>2140 mg/kg</td>
</tr>
<tr>
<td>Water (7732-18-5)</td>
<td></td>
</tr>
<tr>
<td>LD50 Oral Rat</td>
<td>&gt; 90000 mg/kg</td>
</tr>
<tr>
<td>Sulfuric acid (7664-93-9)</td>
<td></td>
</tr>
<tr>
<td>IARC Group</td>
<td>1</td>
</tr>
<tr>
<td>OSHA Hazard Communication Carcinogen List</td>
<td>In OSHA Hazard Communication Carcinogen list.</td>
</tr>
</tbody>
</table>

SECTION 12: ECOLOGICAL INFORMATION

Toxicity  No additional information available

<table>
<thead>
<tr>
<th>Sulfuric acid (7664-93-9)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 Fish 1</td>
<td>500 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])</td>
</tr>
<tr>
<td>LC50 Fish 2</td>
<td>42 mg/l (Exposure time: 96 h - Species: Gambusia affinis [static])</td>
</tr>
</tbody>
</table>

Persistence and Degradability

<table>
<thead>
<tr>
<th>Ferric Sulfate 60%</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and Degradability</td>
<td>May cause long-term adverse effects in the environment.</td>
</tr>
</tbody>
</table>

Bioaccumulative Potential

<table>
<thead>
<tr>
<th>Ferric Sulfate 60%</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Bioaccumulative Potential</td>
<td>Not established.</td>
</tr>
<tr>
<td>Sulfuric acid (7664-93-9)</td>
<td></td>
</tr>
<tr>
<td>BCF Fish 1</td>
<td>(no bioaccumulation)</td>
</tr>
</tbody>
</table>
**Ferric Sulfate 60%**
Safety Data Sheet

**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.

**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

<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>UN3264</td>
<td>UN3264</td>
<td>UN3264</td>
<td>UN3264</td>
</tr>
<tr>
<td>Proper Shipping Name</td>
<td>CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS FERRIC SULFATE, SULFURIC ACID)</td>
<td>CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS FERRIC SULFATE, SULFURIC ACID)</td>
<td>CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS FERRIC SULFATE, SULFURIC ACID)</td>
<td>CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS FERRIC SULFATE, SULFURIC ACID)</td>
</tr>
<tr>
<td>Transport Hazard Class(es)</td>
<td>8</td>
<td>8</td>
<td>8</td>
<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: 154</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, iron(3+) salt (3:2) (10028-22-5)</td>
<td>1000 lb</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>No</td>
</tr>
<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**

**Ferric Sulfate 50%**
Immediate (acute) health 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, iron(3+) salt (3:2) (10028-22-5)</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Sulfuric acid (7664-93-9)</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

**State Right-To-Know Lists**

<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, iron(3+) salt (3:2) (10028-22-5)</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>
Ferric Sulfate 60%
Safety Data Sheet

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

**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, iron(3+) salt (3:2) (10028-22-5)**
Listed on the Canadian DSL (Domestic Substances List)
Not listed on the Canadian NDSL (Non-Domestic Substances List)

**Sulfuric acid (7664-93-9)**
Listed on the Canadian DSL (Domestic Substances List)
Not listed on the Canadian NDSL (Non-Domestic Substances List)

**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, iron(3+) salt (3:2) (10028-22-5)</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Sulfuric acid (7664-93-9)</td>
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<td>No</td>
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<td>Yes</td>
<td>No</td>
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<td>No</td>
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</table>

<table>
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<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>
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<td>Yes</td>
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</table>

**SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION**

Date of Preparation or Latest Revision : 12/03/2018

**Revision Summary**

<table>
<thead>
<tr>
<th>Section</th>
<th>Change</th>
<th>Date Changed</th>
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<tbody>
<tr>
<td>2</td>
<td>Classification update</td>
<td>12/03/2018</td>
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<tr>
<td>3</td>
<td>Information update</td>
<td>12/03/2018</td>
</tr>
<tr>
<td>16</td>
<td>Information update</td>
<td>12/03/2018</td>
</tr>
</tbody>
</table>

**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:**

- Acute Tox. 4 (Oral)
- Aquatic Acute 3
- Eye Dam. 1
- Met. Corr. 1
- Carc. 1A
- Skin Corr. 1A
- Skin Irrit. 2
- H290

Acute toxicity (oral) Category 4
Hazardous to the aquatic environment - Acute Hazard Category 3
Serious eye damage/eye irritation Category 1
Corrosive to metals Category 1
Carcinogenicity Category 1A
Skin corrosion/irritation Category 1A
Skin corrosion/irritation Category 2
May be corrosive to metals
Ferric Sulfate 60%
Safety Data Sheet

<table>
<thead>
<tr>
<th>H302</th>
<th>Harmful if swallowed</th>
</tr>
</thead>
<tbody>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H350</td>
<td>May cause serious eye damage</td>
</tr>
<tr>
<td>H402</td>
<td>Harmful to aquatic life</td>
</tr>
</tbody>
</table>

NFPA 704
- NFPA Health Hazard: 3
- NFPA Fire Hazard: 0
- NFPA Reactivity Hazard: 0

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

Abbreviations and Acronyms
- AICS – Australian Inventory of Chemical Substances
- ACGIH – American Conference of Governmental Industrial Hygienists
- AIHA – American Industrial Hygiene Association
- ATE - Acute Toxicity Estimate
- BCF - Bioconcentration factor
- BEI - Biological Exposure Indices (BEI)
- CAS No. - Chemical Abstracts Service number
- CERCLA RQ - Comprehensive Environmental Response, Compensation, and Liability Act - Reportable Quantity
- CICR - Turkish Inventory and Control of Chemicals
- EC50 - Median effective concentration
- ECL - Korea Existing Chemicals List
- EINECS - European Inventory of Existing Commercial Chemical Substances
- ELINCS - European List of Notified Chemical Substances
- EmS - IMDG Emergency Schedule Fire & Spillage
- ENCS - Japanese Existing and New Chemicals Inventory
- EPA – Environmental Protection Agency
- EPCRA 304 RQ – EPCRA 304 Extremely Hazardous Substance Emergency Planning and Community Right-to-Know Act – Reportable Quantity
- ERAP Index – Emergency Response Assistance Plan Quantity Limit
- ErC50 - EC50 in Terms of Reduction Growth Rate
- ERG code (IATA) - Emergency Response Drill Code as found in the International Civil Aviation Organization (ICAO)
- ERG No. - Emergency Response Guide Number
- HCCL - Hazard Communication Carcinogen List
- HMIS – Hazardous Materials Information System
- IARC - International Agency for Research on Cancer
- IATA - International Air Transport Association – Dangerous Goods Regulations
- IDLH - Immediately Dangerous to Life or Health
- IECS - Inventory of Existing Chemical Substances Produced or Imported in China
- IMDG - International Maritime Dangerous Goods Code
- INSQ - Mexican National Inventory of Chemical Substances
- ISHL - Japan Industrial Safety and Health Law
- LC50 - Median Lethal Concentration
- LSD50 - Median Lethal Dose
- LOAEL - Lowest Observed Adverse Effect Level
- LOEC - Lowest-observed-effect Concentration
- Log Pow - Octanol/water Partition Coefficient
- NIOSH - National Institute for Occupational Safety and Health
- NLP - Europe No Longer Polymers List
- NOAEL - No-Observed Adverse Effect Level
- NOEC - No-Observed Effect Concentration
- NZIOC - New Zealand Inventory of Chemicals
- OEL - Occupational Exposure Limits
- OSHA – Occupational Safety and Health Administration
- PEL - Permissible Exposure Limits
- PICCS - Philippine Inventory of Chemicals and Chemical Substances
- PDSCL - Japan Poisonous and Deleterious Substances Control Law
- PPE – Personal Protective Equipment
- PRTR - Japan Pollutant Release and Transfer Register
- REL - Recommended Exposure Limit
- SADT - Self Accelerating Decomposition Temperature
- SARA 302 - Section 302, 40 CFR Part 355
- SARA 311/312 - Sections 311 and 312, 40 CFR Part 370 Hazard Categories
- SARA 313 - Section 313, 40 CFR Part 372
- SVHC – European Candidate List of Substance of Very High Concern
- TLM - Median Tolerance Limit
- TPQ - Threshold Planning Quantity
- TSCA – United StatesToxic Substances Control Act
- TWA - Time Weighted Average
- WEEL - Workplace Environmental Exposure Levels
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™.