# Molten Sulfur

Safety Data Sheet

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

Revision Date: 05/01/15 Issue Date: 05/01/15 Version: 1.0

## SECTION 1: IDENTIFICATION

### Product Identifier

**Product Form:** Mixture

**Product Name:** Molten Sulfur

**Synonyms:** Brimstone, Flowers of sulfur, Sulphur

### Intended Use of the Product

Manufacturing sulfuric acid, sulfur dioxide, fertilizer, carbon disulfide, plastics, enamels; vulcanizing rubber; synthesizing dyes; bleaching wood pulp.

### Name, Address, and Telephone of the Responsible Party

**Manufacturer**

CHEMTRADE LOGISTICS INC.
155 Gordon Baker Road
Suite 300
Toronto, Ontario M2H 3N5
For MSDS Info: (416) 496-5856
www.chemtradelogistics.com

### Emergency Telephone Number

**Emergency number** : Canada: CANUTEC +1-613-996-6666 / US: CHEMTREC +1-800-424-9300
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

**Classification (GHS-US)**

| | |
|---|---|
| Flam. Sol. 2 | H228 |
| Skin Irrit. 2 | H315 |
| Aquatic Acute 2 | H401 |

### Label Elements

**GHS-US Labeling**

**Hazard Pictograms (GHS-US)** :

GHS02 GHS07

**Signal Word (GHS-US)** : Warning

**Hazard Statements (GHS-US)** : H228 - Flammable solid
H315 - Causes skin irritation
H401 - Toxic to aquatic life

**Precautionary Statements (GHS-US)** : P210 - Keep away from open flames, sparks, heat. - No smoking
P240 - Ground/bond container and receiving equipment
P241 - Use explosion-proof electrical, lighting, ventilating equipment
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling
P273 - Avoid release to the environment
P280 - Wear protective gloves, protective clothing, eye protection, face protection, respiratory protection
P302+P352 - IF ON SKIN: Wash with plenty of soap and water
P321 - Specific treatment (see section 4)
P332+P313 - If skin irritation occurs: Get medical advice/attention
P362 - Take off contaminated clothing and wash before reuse
P370+P378 - In case of fire: Use appropriate media for extinction
P501 - Dispose of contents/container to local, regional, national, territorial, provincial, and international regulations

### Other Hazards

**Other Hazards Not Contributing to the Classification**: Although this MSDS was prepared to address the hazards of molten sulfur, the product transforms into a solid rapidly upon cooling. Sections 3, 4, 5, 6, 7, 8, 9, and 11 primarily address the hazards of the molten state of sulfur. Where applicable, the hazards of the dry state are addressed in the above mentioned sections. Molten when shipped above melting point 113°C (235.4°F), brittle solid below melting point. Solid particles of Sulfur present a combustible dust hazard, and in the right conditions can cause an explosion with sparks, or an ignition source. Product is heated when in molten form, and in contact with an ignition source may present a fire or explosion hazard. Keep product away from sparks, open flames, incompatibilites, and all ignition sources. . Risk of thermal burns on contact with molten product.

**Unknown Acute Toxicity (GHS-US)** Not available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Substances

### Mixture

| Name | Product identifier | % (w/w) | Classification (GHS-US) |
|---|---|---|---|
| Sulfur | (CAS No) 7704-34-9 | 99.5 - 100 | Comb. Dust, H232<br>Skin Irrit. 2, H315<br>Eye Irrit. 2B, H320<br>Aquatic Acute 3, H402 |
| Hydrogen sulfide | (CAS No) 7783-06-4 | 0.1 - 0.5 | Flam. Gas 1, H220<br>Liquefied gas, H280<br>Acute Tox. 2 (Inhalation:gas), H330<br>Aquatic Acute 1, H400 |

Full text of H-phrases: see section 16

## 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. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Cool skin rapidly with cold water after contact with molten product. In molten form: Cool skin rapidly with cold water after contact with molten product, Removal of solidified molten material from skin requires medical assistance.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persist. Protect skin and eyes from contact with molten material.

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

### Most Important Symptoms and Effects Both Acute and Delayed

**General:** Causes skin irritation. Risk of thermal burns on contact with molten product.

**Inhalation:** inhalation of vapors may cause respiratory irritation.

**Skin Contact:** Causes skin irritation. Risk of thermal burns on contact with molten product.

**Eye Contact:** Risk of thermal burns on contact with molten product. May cause eye irritation.

**Ingestion:** Abdominal pain. May cause nausea, vomiting, and diarrhea. Ingestion is likely to be harmful or have adverse effects.

**Chronic Symptoms:** Contains a small amount of Hydrogen Sulfide, symptoms of chronic exposure that may manifest as long-term or permanent effects are: headaches, dizziness, nausea, coughing, respiratory irritation, eye irritation, skin irritation, pain in the nose, and loss of consciousness.

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

If exposed or concerned, get medical advice and attention.

## SECTION 5: FIRE-FIGHTING MEASURES

### Extinguishing Media

**Suitable Extinguishing Media:** For small fire : Foam, dry chemical, carbon dioxide, water spray, fog, steam. For large fire: On heating, there is a risk of bursting due to internal pressure build-up. Cool down the containers exposed to heat with a water spray. Use extinguishing media appropriate for surrounding fire.

**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:** In molten form: . Flammable solid. In solid form: . Combustible Dust. Sulfur burns with a pale blue flame that may be difficult to see in daylight. Flammable vapours can accumulate in head space of closed systems.

**Explosion Hazard:** Product is not explosive, however, formation of explosive air-vapour mixture is possible. Water vapor and sulfuric acid vapors may develop in sealed containers from extreme heat exposure producing an explosion hazard.

**Reactivity:** Hazardous reactions will not occur under normal conditions. In solid form: . Dust clouds can be explosive.

### 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**:Not available

**Other information:** Fire may produce irritating and/or toxic gases. If stored under heat for extended periods or significantly agitated, this material might evolve or release hydrogen sulfide, a flammable gas, which can raise and widen this material's actual flammability limits and significantly lower its auto-ignition temperature. Hydrogen sulfide is a toxic gas that can be fatal. It also has a rotten egg smell that causes odor fatigue very quickly and shouldn't be used as an indicator for the presence of gas.

### 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:** Avoid all eye and skin contact and do not breathe vapor and mist. Do not touch or walk through spilled material.

### For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

### For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Ventilate area.

### Environmental Precautions

Prevent entry to sewers and public waters.

### Methods and Material for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clear up spills immediately and dispose of waste safely. Eliminate all ignition sources. In case of fire: Stop leak if safe to do so. If melted: allow liquid to solidify before taking it up. In solid form: . Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Avoid generation of dust during clean-up of spills.

### Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

## SECTION 7: HANDLING AND STORAGE

### Precautions for Safe Handling

**Additional Hazards When Processed:** Risk of thermal burns on contact with molten product. Flammable vapours can accumulate in head space of closed systems. If stored under heat for extended periods or significantly agitated, this material might evolve or release hydrogen sulfide, a flammable gas, which can raise and widen this material's actual flammability limits and significantly lower its auto-ignition temperature. Hydrogen sulfide is a toxic gas that can be fatal. It also has a rotten egg smell that causes odor fatigue very quickly and shouldn't be used as an indicator for the presence of gas. Proper grounding procedures to avoid static electricity should be followed. Do not pressurize, cut, or weld containers.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink or smoke in areas where product is used.

### Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Prevent build-up of electrostatic charges (e.g., by grounding). Ground/bond container and receiving equipment. Handling this product may result in electrostatic accumulation. Use proper grounding procedures.

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Store away from incompatible materials. Sparks, heat, open flame and other sources of ignition.

**Incompatible Materials:** Strong oxidizers. Alkalis.

**Special Rules on Packaging:** Contains Sulfur, may release small amounts of hydrogen sulfide. Hydrogen sulfide is a highly flammable, explosive gas under certain conditions, is a toxic gas, and may be fatal. Gas can accumulate in the headspace of closed containers, use caution when opening sealed containers. Heating the product or containers can cause thermal decomposition of the product and release hydrogen sulfide.

**Specific End Use(s)**

Chemical feedstock.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control Parameters**

| **Hydrogen sulfide (7783-06-4)** | | |
|---|---|---|
| USA ACGIH | ACGIH TWA (ppm) | 1 ppm |
| USA ACGIH | ACGIH STEL (ppm) | 5 ppm |
| USA OSHA | OSHA PEL (Ceiling) (ppm) | 20 ppm |
| USA NIOSH | NIOSH REL (ceiling) (mg/m³) | 15 mg/m³ |
| USA NIOSH | NIOSH REL (ceiling) (ppm) | 10 ppm |
| USA IDLH | US IDLH (ppm) | 100 ppm |
| Alberta | OEL Ceiling (mg/m³) | 21 mg/m³ |
| Alberta | OEL Ceiling (ppm) | 15 ppm |
| Alberta | OEL TWA (mg/m³) | 14 mg/m³ |
| Alberta | OEL TWA (ppm) | 10 ppm |
| British Columbia | OEL Ceiling (ppm) | 10 ppm |
| Manitoba | OEL STEL (ppm) | 5 ppm |
| Manitoba | OEL TWA (ppm) | 1 ppm |
| New Brunswick | OEL STEL (mg/m³) | 21 mg/m³ |
| New Brunswick | OEL STEL (ppm) | 15 ppm |
| New Brunswick | OEL TWA (mg/m³) | 14 mg/m³ |
| New Brunswick | OEL TWA (ppm) | 10 ppm |
| Newfoundland & Labrador | OEL STEL (ppm) | 5 ppm |
| Newfoundland & Labrador | OEL TWA (ppm) | 1 ppm |
| Nova Scotia | OEL STEL (ppm) | 5 ppm |
| Nova Scotia | OEL TWA (ppm) | 1 ppm |
| Nunavut | OEL Ceiling (mg/m³) | 28 mg/m³ |
| Nunavut | OEL Ceiling (ppm) | 20 ppm |
| Nunavut | OEL STEL (mg/m³) | 21 mg/m³ |
| Nunavut | OEL STEL (ppm) | 15 ppm |
| Nunavut | OEL TWA (mg/m³) | 14 mg/m³ |
| Nunavut | OEL TWA (ppm) | 10 ppm |
| Northwest Territories | OEL Ceiling (mg/m³) | 28 mg/m³ |
| Northwest Territories | OEL Ceiling (ppm) | 20 ppm |
| Northwest Territories | OEL STEL (mg/m³) | 21 mg/m³ |
| Northwest Territories | OEL STEL (ppm) | 15 ppm |
| Northwest Territories | OEL TWA (mg/m³) | 14 mg/m³ |
| Northwest Territories | OEL TWA (ppm) | 10 ppm |
| Ontario | OEL STEL (ppm) | 15 ppm |
| Ontario | OEL TWA (ppm) | 10 ppm |
| Prince Edward Island | OEL STEL (ppm) | 5 ppm |
| Prince Edward Island | OEL TWA (ppm) | 1 ppm |
| Québec | VECD (mg/m³) | 21 mg/m³ |
| Québec | VECD (ppm) | 15 ppm |
| Québec | VEMP (mg/m³) | 14 mg/m³ |
| Québec | VEMP (ppm) | 10 ppm |
| Saskatchewan | OEL STEL (ppm) | 15 ppm |
| Saskatchewan | OEL TWA (ppm) | 10 ppm |

| | | |
|---|---|---|
| Yukon | OEL STEL (mg/m³) | 27 mg/m³ |
| Yukon | OEL STEL (ppm) | 15 ppm |
| Yukon | OEL TWA (mg/m³) | 15 mg/m³ |
| Yukon | OEL TWA (ppm) | 10 ppm |

| **Sulfur (7704-34-9)** | | |
|---|---|---|
| Alberta | OEL TWA (mg/m³) | 10 mg/m³ |

### Exposure Controls

**Appropriate Engineering Controls:** Ensure adequate ventilation, especially in confined areas. Gas detectors should be used when flammable gases/vapours may be released. Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Maintain sufficient mechanical or natural ventilation to assure fiber concentrations remain below PEL/TLV. Use local exhaust if necessary. Power equipment should be equipped with properly designed dust collection devices. Avoid dust production.

**Personal Protective Equipment:** Insulated gloves. Protective goggles. Protective clothing. Insufficient ventilation: wear respiratory protection.

**Materials for Protective Clothing:** Chemically resistant materials and fabrics. Wear fire/flame resistant/retardant clothing. Wear thermally protective clothing when handling product in significant amounts.

**Hand Protection:** Wear chemically resistant protective gloves. Insulated gloves.

**Eye Protection:** Chemical goggles or face shield.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** Use NIOSH-approved air-purifying or supplied-air respirator where airborne concentrations of vapor or mist are expected to exceed exposure limits.

**Thermal Hazard Protection:** Protect skin and eyes from contact with molten material.

**Other Information:** When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

| | | |
|---|---|---|
| **Physical State** | : | Solid |
| **Appearance** | : | Opaque liquid when shipped, brittle solid below melting point. Bright yellow to brown. |
| **Odor** | : | Rotten eggs. |
| **Odor Threshold** | : | Not available |
| **pH** | : | Not applicable |
| **Relative Evaporation Rate (butylacetate=1)** | : | Not applicable |
| **Melting Point** | : | 114 - 119 °C (237.2 to 246.2 °F) |
| **Freezing Point** | : | Not applicable |
| **Boiling Point** | : | 444.6 (832.3 °F) |
| **Flash Point** | : | 207 °C (404.6°F) Pensky-Martens Closed Cup |
| **Auto-ignition Temperature** | : | 232 °C (449.6 °F) |
| **Decomposition Temperature** | : | Not applicable |
| **Flammability (solid, gas)** | : | Not applicable |
| **Lower Flammable Limit** | : | 4 % |
| **Upper Flammable Limit** | : | 44 % |
| **Vapor Pressure** | : | 0.015 kPa (0.11 mm Hg) |
| **Relative Vapor Density at 20 °C** | : | 3.64 [Air = 1] |
| **Relative Density** | : | Not available |
| **Specific Gravity** | : | 1.79 |
| **Solubility** | : | Water: Insoluble<br>Organic solvent: Soluble in carbon disulfide,benzene, toluene, chloroform, ether, warm aniline, carbon tetrachloride and liquid ammonia. |
| **Partition coefficient: n-octanol/water** | : | Not available |
| **Viscosity** | : | Not available |

**Viscosity, Kinematic** : Not applicable
**Viscosity, Dynamic** : Not applicable
**Explosive properties** : Product is not explosive
**Explosion Data – Sensitivity to Mechanical Impact** : Not applicable
**Explosion Data – Sensitivity to Static Discharge** : Not applicable

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Hazardous reactions will not occur under normal conditions. In solid form: Dust clouds can be explosive.
**Chemical Stability:** Stable at standard temperature and pressure.
**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
**Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures. Incompatible materials. Ignition sources.
**Incompatible Materials:** Strong oxidizers. Alkalis.
**Hazardous Decomposition Products:** sulfur oxides. Hydrogen sulfide. Toxic gases.

## SECTION 11: TOXICOLOGICAL INFORMATION

**Information on Toxicological Effects - Product**

**Acute Toxicity:** Not classified
**LD50 and LC50 Data:** Not available
**Skin Corrosion/Irritation:** Causes skin irritation. **pH:** Not applicable
**Serious Eye Damage/Irritation:** Not classified **pH:** Not applicable
**Respiratory or Skin Sensitization:** Not classified
**Germ Cell Mutagenicity:** Not classified
**Teratogenicity:** Not available
**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/Injuries After Inhalation:** inhalation of vapors may cause respiratory irritation.
**Symptoms/Injuries After Skin Contact:** Causes skin irritation. Risk of thermal burns on contact with molten product.
**Symptoms/Injuries After Eye Contact:** Risk of thermal burns on contact with molten product. May cause eye irritation.
**Symptoms/Injuries After Ingestion:** Abdominal pain. May cause nausea, vomiting, and diarrhea. Ingestion is likely to be harmful or have adverse effects.
**Chronic Symptoms:** Contains a small amount of Hydrogen Sulfide, symptoms of chronic exposure that may manifest as long-term or permanent effects are: headaches, dizziness, nausea, coughing, respiratory irritation, eye irritation, skin irritation, pain in the nose, and loss of consciousness.

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

**LD50 and LC50 Data:**

| **Hydrogen sulfide (7783-06-4)** | |
|---|---|
| LC50 Inhalation Rat (mg/l) | 0.99 mg/l (Exposure time: 1 h) |
| ATE (gases) | 100.000 ppmV/4h |

| **Sulfur (7704-34-9)** | |
|---|---|
| LD50 Oral Rat | > 3000 mg/kg |
| LD50 Dermal Rabbit | > 2000 mg/kg |
| LC50 Inhalation Rat (mg/l) | > 9.23 mg/l/4h |

## SECTION 12: ECOLOGICAL INFORMATION

**Toxicity** Not classified

| **Hydrogen sulfide (7783-06-4)** | |
|---|---|
| LC50 Fish 1 | 0.0448 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through]) |
| LC 50 Fish 2 | 0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |

| **Sulfur (7704-34-9)** | |
|---|---|
| LC50 Fish 1 | 866 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static]) |

| | |
|---|---|
| LC 50 Fish 2 | 14 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) |

**Persistence and Degradability**

| **Molten Sulfur** | |
|---|---|
| Persistence and Degradability | Not established. |

**Bioaccumulative Potential**

| **Molten Sulfur** | |
|---|---|
| Bioaccumulative Potential | Not established. |
| **Hydrogen sulfide (7783-06-4)** | |
| BCF fish 1 | (no bioaccumulation expected) |
| Log Pow | 0.45 (at 25 °C) |

**Mobility in Soil** Not available

**Other Adverse Effects**

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

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

**Additional Information:** Empty containers may have traces of flammable residue. Do not expose containers to heat, flames, or ignition sources. Do not pressurize, cut, or weld containers. . Empty containers should be taken for recycle, recovery or waste in accordance with local regulation.

## SECTION 14: TRANSPORT INFORMATION

**14.1 In Accordance with DOT**

Special provisions: 30, IB3, T1, TP3

**Proper Shipping Name** : SULFUR, MOLTEN
**Hazard Class** : 9
**Identification Number** : NA2448
**Label Codes** : 9
**Packing Group** : III
**ERG Number** : 133
**Additional Information** : Special provisions: 30, IB3, T1, TP3


**14.2 In Accordance with IMDG**

**Proper Shipping Name** : SULPHUR, MOLTEN
**Hazard Class** : 4.1
**Identification Number** : UN2448
**Packing Group** : III
**Label Codes** : 4.1
**EmS-No. (Fire)** : F-A
**EmS-No. (Spillage)** : S-H


**14.3 In Accordance with IATA**

Special provisions: Passenger and Cargo Aircraft Quantity Limitation: 20 kg Cargo Aircraft Only Quantity Limitation: 100 kg Limited Quantitites - Passenger Aircraft Quantiity Limitation: 10 kg

**Proper Shipping Name** : SULPHUR, MOLTEN
**Identification Number** : UN2448
**Hazard Class** : 4
**Label Codes** : 4.1
**ERG Code (IATA)** : 3L
**Additional Information** : Special provisions: Passenger and Cargo Aircraft Quantity Limitation: 20 kg Cargo Aircraft Only Quantity Limitation: 100 kg Limited Quantitites - Passenger Aircraft Quantiity Limitation: 10 kg


**14.4 In Accordance with TDG**

Special provisions: 32

**Proper Shipping Name** : MOLTEN SULFUR

**Packing Group** : III
**Hazard Class** : 4.1
**Identification Number** : UN2448
**Label Codes** : 4.1
**Additional Information** : Special provisions: 32

## SECTION 15: REGULATORY INFORMATION

### US Federal Regulations

| **Molten Sulfur** | |
|---|---|
| **SARA Section 311/312 Hazard Classes** | Immediate (acute) health hazard<br>Reactive hazard<br>Fire hazard |

| **Hydrogen sulfide (7783-06-4)** | |
|---|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory<br>Listed on SARA Section 302 (Specific toxic chemical listings)<br>Listed on SARA Section 313 (Specific toxic chemical listings) | |
| **SARA Section 302 Threshold Planning Quantity (TPQ)** | 500 |
| **SARA Section 313 - Emission Reporting** | 1.0 % |

| **Sulfur (7704-34-9)** |
|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

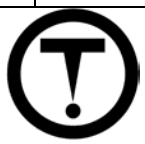
### US State Regulations

| **Hydrogen sulfide (7783-06-4)** |
|---|
| RTK - U.S. - Massachusetts - Right To Know List<br>RTK - U.S. - New Jersey - Right to Know Hazardous Substance List<br>RTK - U.S. - Pennsylvania - RTK (Right to Know) List |

| **Sulfur (7704-34-9)** |
|---|
| RTK - U.S. - Massachusetts - Right To Know List<br>RTK - U.S. - New Jersey - Right to Know Hazardous Substance List<br>RTK - U.S. - Pennsylvania - RTK (Right to Know) List |

### Canadian Regulations

| **Molten Sulfur** | |
|---|---|
| WHMIS Classification | Class B Division 4 - Flammable Solid<br>Class D Division 2 Subdivision B - Toxic material causing other toxic effects |



| **Hydrogen sulfide (7783-06-4)** | |
|---|---|
| Listed on the Canadian DSL (Domestic Substances List) inventory.<br>Listed on the Canadian Ingredient Disclosure List | |
| WHMIS Classification | Class A - Compressed Gas<br>Class B Division 1 - Flammable Gas<br>Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects<br>Class D Division 2 Subdivision B - Toxic material causing other toxic effects |

| **Sulfur (7704-34-9)** | |
|---|---|
| Listed on the Canadian DSL (Domestic Substances List) inventory. | |
| WHMIS Classification | Class B Division 4 - Flammable Solid |

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

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

**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

**GHS Full Text Phrases**:

| | |
|---|---|
| Acute Tox. 2 (Inhalation:gas) | Acute toxicity (inhalation:gas) Category 2 |
| Aquatic Acute 1 | Hazardous to the aquatic environment - Acute Hazard Category 1 |
| Aquatic Acute 2 | Hazardous to the aquatic environment - Acute Hazard Category 2 |
| Aquatic Acute 3 | Hazardous to the aquatic environment - Acute Hazard Category 3 |
| Comb. Dust | Combustible Dust |
| Eye Irrit. 2B | Serious eye damage/eye irritation Category 2B |
| Flam. Gas 1 | Flammable gases Category 1 |
| Flam. Sol. 2 | Flammable solids Category 2 |
| Liquefied gas | Gases under pressure Liquefied gas |
| Skin Irrit. 2 | Skin corrosion/irritation Category 2 |
| H220 | Extremely flammable gas |
| H228 | Flammable solid |
| H232 | May form combustible dust concentrations in air |
| H280 | Contains gas under pressure; may explode if heated |
| H315 | Causes skin irritation |
| H320 | Causes eye irritation |
| H330 | Fatal if inhaled |
| H400 | Very toxic to aquatic life |
| H401 | Toxic to aquatic life |
| H402 | Harmful to aquatic life |

**Party Responsible for the Preparation of This Document**

CHEMTRADE LOGISTICS, INC.

For MSDS Info: (416) 496-5856

*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™.*

Responsible Care® Our commitment to sustainability. Gestion responsable™ Notre engagement envers le développement durable.

North America GHS US 2012 & WHMIS 2