

## SAFETY DATA SHEET

Preparation Date: 6/01/2015

Revision Date: 7/20/2017

Revision Number: G3

### 1. IDENTIFICATION

#### Product identifier

**Product code:** S1384  
**Product Name:** Precipitated Sulfur

#### Other means of identification

**Synonyms:** No information available  
**CAS #:** 7704-34-9  
**RTECS #** WS4250000  
**CI#:** Not available

#### Recommended use of the chemical and restrictions on use

**Recommended use:** In manufacturing sulfuric acid, carbon disulfide, sulfites, insecticides, plastics, enamels, metal-glass, cements; in vulcanizing rubber; in syntheses of dyes; in making gunpowder, matches; for bleaching wood pulp, straw, wool, silk, felt, linen; in making phosphatic fertilizers; bleaching of dried fruits; fungicide and acaricide; rodent repellent; soil conditioner; nucleating reagent for photographic film; used in cosmetics, such as acne ointments and lotions, and in antidandruff shampoos.

**Uses advised against** No information available

**Supplier:** Spectrum Chemical Mfg. Corp  
 14422 South San Pedro St.  
 Gardena, CA 90248  
 (310) 516-8000.

**Order Online At:** <https://www.spectrumchemical.com>

**Emergency telephone number** Chemtrec 1-800-424-9300

**Contact Person:** Martin LaBenz (West Coast)

**Contact Person:** Ibad Tirmiz (East Coast)

### 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Combustible dust	-
Flammable solids	Category 2

#### Label elements

##### **Warning**

May form combustible dust concentrations in air  
 Combustible Dust Warning is for OSHA HazCom 2012 classification, but not for GHS Hazard Classification:  
 Flammable solids



**Hazards not otherwise classified (HNOC)**

Not Applicable

**Other hazards**

Not available

**Precautionary Statements - Prevention**

Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
Ground/bond container and receiving equipment  
Use explosion-proof electrical/ventilating/lighting/.../equipment  
Wear protective gloves  
Wear eye/face protection  
Prevent dust accumulations to minimize explosion hazard

In case of fire: Use CO<sub>2</sub>, dry chemical, or foam to extinguish.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Components	CAS-No.	Weight %
Sulfur, precipitated	7704-34-9	100

**4. FIRST AID MEASURES**

**First aid measures**

**General Advice:** National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.

**Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention if irritation develops.

**Eye Contact:** Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.

**Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. In case of shortness of breath, give oxygen. Get medical attention.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary. Get medical attention if symptoms appear.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** May cause eye/skin irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea. May cause irritation of respiratory tract. Coughing and wheezing. Dyspnea (Shortness of breath and difficulty breathing). May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause bronchitis. May cause emphysema.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician:** Treat symptomatically.

### **Protection of first-aiders**

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

## **5. FIRE-FIGHTING MEASURES**

### **Extinguishing Media**

#### **Suitable Extinguishing Media:**

Carbon dioxide (CO<sub>2</sub>). Dry chemical. Water spray mist or foam.

#### **Unsuitable Extinguishing Media:**

No information available.

### **Specific hazards arising from the chemical**

#### **Hazardous Combustion Products:**

Sulfur dioxide gas

#### **Hazardous Combustion Products:**

No information available.

#### **Specific hazards:**

May be combustible at high temperatures. Avoid generating dust. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. SULFUR IS POOR CONDUCTOR OF ELECTRICITY & TENDS TO DEVELOP CHARGES OF STATIC ELECTRICITY DURING TRANSPORT OR PROCESSING; STATIC DISCHARGE MAY LEAD TO IGNITION OF SULFUR DUST. Burns with a pale blue flame that may be difficult to see in daylight. Grinding of sulfur involves high degree of explosive hazard. Vapors given off during melting of Sulfur may contain sufficient Hydrogen Sulfide and Carbon Disulfide to permit ignition of air/vapor mixture on contact with hot surface. Such ignition may result in transmission of flames to molten Sulfur. Mixture of Barium carbide and sulfur heated at 150 deg. C becomes incandescent. Mixture of barium chlorate and Sulfur ignites at about 108-111 deg. C. Calcium carbide reacts incandescently with sulfur vapors at 500 deg. C. Calcium phosphide reacts with sulfur incandescently at 300 deg. C. Powdered sulfur is spontaneously flammable when mixed with Lampblack or freshly calcined charcoal. Sulfur in chlorine dioxide takes fire spontaneously and may produce an explosion. Flowers of sulfur moistened with chromyl chloride ignites spontaneously. A mixture of lead chlorate and sulfur ignites at about 63-67 deg. C. A mixture of sulfur and silver chlorate ignites at about 74 deg. C. When finely divided sulfur is ground with silver oxide, the mixture ignites. Solid sulfur will ignite when mixed with solid sodium chlorite and moistened. Lithium carbide burns in vapors of sulfur. Sulfur mixed with mercurous oxide will ignite on light

impact.  
Powdered nickel heated with sulfur reacts with incandescence.  
Sulfur when heated with Thorium reacts vigorously with incandescence.  
Mixture of sulfur + niobium oxide + aluminum causes fire.  
A mixture of boron and sulfur becomes incandescent 600 deg. C.  
Bromine trifluoride and sulfur react incandescently.  
Potassium nitride unites with sulfur when heated, forming a highly flammable mixture.  
Rubidium acetylene carbide ignites on contact with molten sulfur. Sulfur + Ammonia may form explosive Sulfur Nitride.  
Ammonium Nitrate + Sulfur can be exploded by shock.  
Mixtures of Ammonium Perchlorate and Sulfur are impact sensitive.  
Interaction between Sulfur and Tetraphenyllead may be explosive.  
A mixture of sulfur + stannic iodide + sodium produces a strong explosion on impact.  
When sulfur is rubbed with sodium the reaction proceeds with explosive violence.  
When a mixture of Sulfur and yellow phosphorous is warmed is causes a vivid combustion and powerful explosion.  
Iodine Pentaoxide reacts explosively when warmed with sulfur.  
Potassium Perchlorate + Sulfur , used in flashcrackers, can be explode by moderately strong impact.  
COMBINATION OF FINELY DIVIDED SULFUR & FINELY DIVIDED BROMATES (ALSO CHLORATES OR IODATES) OF BARIUM, CALCIUM, MAGNESIUM, POTASSIUM, SODIUM, OR ZINC WILL EXPLODE WITH HEAT, PERCUSSION, & SOMETIMES, LIGHT FRICTION.  
A mixture of sulfur and chlorates will explode.  
Sulfur + silver bromate produces an explosive reaction in the presence of water.

### **Special Protective Actions for Firefighters**

#### **Specific Methods:**

For larger fires, use water spray or fog. Cool containers with flooding quantities of water until well after fire is out.

#### **Special Protective Equipment for Firefighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions:** Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Remove all sources of ignition. Avoid dust formation. Avoid dispersal of dust in the air. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Nonsparking tools should be used.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers, basements or confined areas.

### Methods and material for containment and cleaning up

**Methods for containment** Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

**Methods for cleaning up** Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

#### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Minimize dust generation and accumulation. Avoid dust formation. Dry powders can build static electricity charges when subjected to friction of transfer and mixing operations. All equipment used when handling the product must be grounded. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Keep away from incompatible materials.

#### **Safe Handling Advice**

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not ingest. Do not breathe vapors/dust. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

#### **Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials. Store in a segregated and approved area.

#### **Incompatible Materials:**

Oxidizing agents

Incompatible with ammonia, ammonium nitrate, ammonium perchlorate, barium carbide, barium chlorate, calcium phosphide, calcium carbide, Lampblack, freshly calcined charcoal, lead chlorate, finely divided bromates (also chlorates, or iodates) of Barium, Magnesium, Calcium, Potassium, Sodium, or Zinc, Calcium Hypchlorite, Silver Bromate, Lithium Carbide, Lead Dioxide, Potassium Chlorate, Sodium Hydride, Thorium, aluminum + niobium oxide, Bromine Pentafluoride, Boron, Bromine trifluoride, calcium, chlorine monoxide gas, chlorine trifluoride, indium, Iodine pentaoxide, Lithium, Nitrogen dioxide, yellow phosphorous, Potassium Nitride, Uranium, Tetraphenyllead.

Copper

Copper alloys

Steel

Damp sulfur will corrode steel

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### **National occupational exposure limits**

**Product code:** S1384

**Product name:** Precipitated Sulfur

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## United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WHEEL
Sulfur, precipitated	7704-34-9	None	None	None	None

## Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Sulfur, precipitated	7704-34-9	10 mg/m <sup>3</sup> TWA	None	None	None

## Australia and Mexico

Components	CAS-No.	Australia	Mexico
Sulfur, precipitated	7704-34-9	None	None

## Appropriate engineering controls

### Engineering measures to reduce exposure:

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e. there is no leakage from the equipment) It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in the handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment

## Individual protection measures, such as personal protective equipment

### Personal Protective Equipment

- Eye protection:** Goggles
- Skin and body protection:** Long sleeved clothing  
Chemical resistant apron  
Gloves
- Respiratory protection:** Wear respirator with dust filter. Be sure to use an approved/certified respirator or equivalent.
- Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical state:

Solid

### Appearance:

Powder.

### Color:

Yellow.

### Odor:

Odorless. Pure Sulfur is odorless, but traces of hydrocarbon impurity may

impart an oily and/or rotten egg odor.	<b>Taste</b> No information available.	<b>Formula:</b> S
<b>Molecular/Formula weight:</b> 32.06	<b>Flammability:</b> May form combustible (explosive) dust concentrations in air May be combustible at high temperatures	<b>Flash point (°C):</b> 207
<b>Flashpoint (°C/°F):</b> 207 °C/405 °F	<b>Flash Point Tested according to:</b> Closed cup	<b>Autoignition Temperature (°C/°F):</b> 232 °C/450 °F
<b>Lower Explosion Limit (%):</b> Lower Flammable Limit for Sulfur Dust in Air: 35 mg/L Lower Explosive Limit: 35 g/m <sup>3</sup> or 0.17% (v)	<b>Upper Explosion Limit (%):</b> 1400 g/m <sup>3</sup> or 6.8% (v)	<b>Melting point/range(°C/°F):</b> 112-120 °C/233.6-248 °F
<b>Decomposition temperature(°C/°F):</b> No information available	<b>Boiling point/range(°C/°F):</b> 445 °C/833 °F	<b>Bulk density:</b> No information available
<b>Density (g/cm3):</b> 2.07	<b>Specific gravity:</b> No information available	<b>pH:</b> No information available
<b>Vapor pressure @ 20°C (kPa):</b> No information available	<b>Evaporation rate:</b> No information available	<b>Vapor density:</b> No information available
<b>VOC content (g/L):</b> No information available	<b>Odor threshold (ppm):</b> No information available	<b>Partition coefficient (n-octanol/water):</b> No information available
<b>Viscosity:</b> No information available	<b>Miscibility:</b> No information available	<b>Solubility:</b> Insoluble in water Partially soluble in acetone Very slightly soluble in diethyl ether Sparingly soluble in alcohol Solubility in Acetone: 2.65% @25 deg. C. Solubility in Methylene Iodide: 9.1% @ 10 deg. C. Solubility in Chloroform: 1.5% @ 18 deg. C.

## 10. STABILITY AND REACTIVITY

### Reactivity

Reactive with oxidizing agents

### Chemical stability

**Stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Heat. Avoid dust formation. Dust may form explosive mixture in air. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Incompatible materials.

**Incompatible Materials:** Oxidizing agents  
Incompatible with ammonia, ammonium nitrate, ammonium perchlorate, barium carbide, barium chlorate, calcium phosphide, calcium carbide, Lampblack, freshly calcined charcoal, lead chlorate, finely divided bromates ( also chlorates, or

iodates) of Barium, Magnesium, Calcium, Potassium, Sodium, or Zinc, Calcium Hypchlorite, Silver Bromate, Lithium Carbide, Lead Dioxide, Potassium Chlorate, Sodium Hydride, Thorium,aluminum + niobium oxide, Bromine Pentafluoride, Boron, Bromine trifluoride, calcium, chlorine monoxide gas, chlorine trifluoride, indium, Iodine pentaoxide, Lithium, Nitrogen dioxide, yellow phosphorous, Potassium Nitride, Uranium, Tetraphenyllead.

Copper  
Copper alloys  
Steel  
Damp sulfur will corrode steel

**Hazardous decomposition products:** Sulfur dioxide gas. Sulfur oxides.

**Other Information**  
**Corrosivity:** No information available

**Special Remarks on Corrosivity:** No information available

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Principal Routes of Exposure:**  
Ingestion. Inhalation.

### Acute Toxicity

#### Component Information

Sulfur, precipitated
CAS-No.   7704-34-9

**LD50/oral/rat** = > 3000 mg/kg Oral LD50 Rat  
**LD50/oral/mouse** = No information available  
**LD50/dermal/rabbit** = >2000 mg/kg Dermal LD50Rabbit  
**LD50/dermal/rat** = > 2000 mg/kg Dermal LD50 > 9.23 mg/L Inhalation LC50 > 3000 mg/kg Oral LD50  
**LC50/inhalation/rat** = >9.23 mg/L Inhalation LC50 Rat 4 h  
**LC50/inhalation/mouse** = No information available  
**Other LD50 or LC50information** = No information available

#### Product Information

**LD50/oral/rat** =  
**VALUE- Acute Tox Oral** = > 3000 mg/kg

**LD50/oral/mouse** =  
**Value - Acute Tox Oral** = No information available

**LD50/dermal/rabbit**  
**VALUE-Acute Tox Dermal** = > 2000 mg/kg

**LD50/dermal/rat**  
**VALUE -Acute Tox Dermal** = No information available

**LC50/inhalation/rat**  
**VALUE-Vapor** = No information available  
**VALUE-Gas** = No information available



VALUE-Dust/Mist = >9.23 mg/l (4-hr.)

**LC50/Inhalation/mouse**

VALUE-Vapor = No information available

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

**Symptoms**

**Skin Contact:** May cause skin irritation.

**Eye Contact:** May cause eye irritation with tearing, burning, scratchy discomfort, and blurring of vision, and possible eye damage (damage to the lens, formation of opacities, cataracts, and focal chorioretinitis).

**Inhalation** Breathing sulfur can irritate the nose, throat, lungs, causing coughing wheezing, sneezing and /or shortness of breath/dyspnea. It may cause inflammation in the respiratory tract resulting in tracheobronchitis, inflammation of nasal mucosa with increased secretions, pulmonary edema, pneumonia,.

**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Sulfur is not particularly toxic when ingested. Ingestion of 60 grams has been survived. However, if not promptly eliminated, theoretically, ingestion of large doses may lead to hydrogen sulfide production in due to bacterial action in the colon. Small particles are more toxic than large ones. It may affect behavior/central nervous system/peripheral nervous system (headache, vertigo, amnesia, fatigue, seizures, agitation, peripheral neuropathy, coma), and kidneys.

**Aspiration hazard** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Chronic Toxicity** Skin: Prolonged or repeated skin contact may cause allergic contact dermatitis, which is rare.  
Ingestion: Prolonged or repeated ingestion may cause metabolic acidosis. It may also affect the liver (increase levels of liver enzymes)  
Inhalation: Prolonged or repeated inhalation may cause bronchitis, various bronchopulmonary diseases, including emphysema, bronchiectasis, thiopneumoconiosis (sulfur pneumoconiosis), and asthma. It may also causes changes in the thyroid gland.

**Sensitization:** No information available.

**Mutagenic Effects:** No information available

**Carcinogenic effects:** Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Sulfur, precipitated	7704-34-9	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

*ACGIH (American Conference of Governmental Industrial Hygienists)*

*IARC (International Agency for Research on Cancer)*

*NTP (National Toxicology Program)*

*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

**Reproductive toxicity** No data is available

**Reproductive Effects:** No information available  
**Developmental Effects:** No information available  
**Teratogenic Effects:** No information available

**Specific Target Organ Toxicity**

**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Target Organs:** No information available.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Ecotoxicity effects:** Aquatic environment.

*Sulfur, precipitated - 7704-34-9*

**Freshwater Fish Species Data:** 866 mg/L LC50 Brachydanio rerio 96 h static 1 14 mg/L LC50 Lepomis macrochirus 96 h static 1 180 mg/L LC50 Oncorhynchus mykiss 96 h static 1

**Persistence and degradability:** No information available

**Bioaccumulative potential:** No information available.

**Mobility:** No information available.

**13. DISPOSAL CONSIDERATIONS**

**Disposal Methods**

**Waste from residues / unused products:**

Waste must be disposed of in accordance with Federal, State and Local regulation.

**Contaminated packaging:**

Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Sulfur, precipitated	7704-34-9	None	None	None	None

**14. TRANSPORT INFORMATION**

**DOT**

**UN-No:** International: UN1350  
Domestic: NA1350

Note that Sulfur which is transported domestically is not subject to the requirements of 49 CFR (Transportation) if transported in a non-bulk packaging (less than 400 kg per package) or if formed into a specific shape (for example: prills, granules, pellets, pastilles, or flakes. Refer to 49 CFR 172.102 (c) (1) Special Provision #30 and the definition of "Bulk" quantities in 49 CFR 171.8. Spectrum Chemical Mfg. Corp does not ship this material domestically in bulk quantities as defined in 49 CFR. Therefore, shipment of this material is not DOT regulated for transport per special provision #30.

**Proper Shipping Name:** Sulfur  
**Hazard Class:** 4.1(For international shipments)

9 (for domestic shipments)  
For Domestic Shipping in Bulk quantities CLASS 9. (DOT regulation for Domestic shipping only applies only to bulk quantities as defined in 49CFR. See note under "Special Provisions for Transport")

**Subsidiary Class** No information available  
**Packing group:** III  
**Emergency Response Guide Number** No information available

**Marine Pollutant** No data available  
**DOT RQ (lbs):** No information available  
**Special Provisions** No Information available  
**Symbol(s):** [DOT]: (I) - Identifies proper shipping names which are appropriate for describing materials in international transportation.  
**Description:** UN1350,Sulfur ,4.1,PG III

**TDG (Canada)**

**UN-No:** UN1350  
**Proper Shipping Name:** Sulfur  
**Hazard Class:** 4.1  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Marine Pollutant** No Information available  
**Description:** UN1350,SULFUR,4.1,PG III

**ADR**

**UN-No:** UN1350  
**Proper Shipping Name:** Sulphur  
**Hazard Class:** 4.1  
**Packing Group:** III  
**Subsidiary Risk:** No information available  
**Description:** UN1350 Sulphur,4.1,III

**IMO / IMDG**

**UN-No:** UN1350  
**Proper Shipping Name:** Sulphur  
**Hazard Class:** 4.1  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Marine Pollutant** No information available  
**EMS:** F-A

**RID**

**UN-No:** UN1350  
**Proper Shipping Name:** Sulphur  
**Hazard Class:** 4.1  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Description:** UN1350 Sulphur,4.1,III

**ICAO**

**UN-No:** UN1350  
**Proper Shipping Name:** Sulphur  
**Hazard Class:** 4.1  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Description:** UN1350,Sulphur,4.1,PG III

**IATA**

**UN-No:** UN1350

**Proper Shipping Name:** Sulphur  
**Hazard Class:** 4.1  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**ERG Code:** 3L  
**Special Provisions** No information available  
**Description:** UN1350,Sulphur,4.1,PG III

## 15. REGULATORY INFORMATION

### International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Sulfur, precipitated	7704-34-9	Present	Present KE-32688	Present	Not present	Present	Present	Present 231-722-6

### U.S. Regulations

*Sulfur, precipitated*

**Massachusetts RTK:** Present  
**New Jersey RTK Hazardous Substance List:** 1757  
**Pennsylvania RTK:** Present  
**California Directors List of Hazardous Substances:** Present

### California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

#### **Chemicals Known to the State of California to Cause Cancer:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

#### **Chemicals Known to the State of California to Cause Reproductive Toxicity:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Sulfur, precipitated	7704-34-9	Not Listed	Not Listed	Not Listed	Not Listed

### CERCLA/SARA

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Sulfur, precipitated	7704-34-9	None	None	None	None	None

### U.S. TSCA

Components	CAS-No.	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Sulfur, precipitated	7704-34-9	Not Applicable	Not Applicable

### Canada

#### WHMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component  
Sulfur, precipitated

WHMIS 2015 Hazard Classification  
Flammable solids - Category 2: H228 Flammable solid.; Skin

**Product code:** S1384

**Product name:** Precipitated Sulfur

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7704-34-9 ( 100 )

corrosion/irritation - Category 2: H315 Causes skin irritation.;  
Combustible Dust - Category 1: May form combustible dust concentrations in air (if 5% or more by weight of its composition has a particle size <500 µm)

**Canada Hazardous Products Regulation** This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

**WHMIS 1988 Hazard Class**

B4 Flammable solid

**Components**

Sulfur, precipitated

WHMIS 1988

B4

**Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

**Inventory**

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Sulfur, precipitated	7704-34-9	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Sulfur, precipitated	7704-34-9	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Sulfur, precipitated	7704-34-9	Not listed

**EU Classification**

**EU GHS - SV - CLP 1272/2008**

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Sulfur, precipitated	7704-34-9	Skin corrosion/irritation - Skin Irrit. 2: H315 Causes skin irritation.016-094-00-1

**EU - CLP (1272/2008)**

**R-phrase(s)**

R38 - Irritating to skin.

**S -phrase(s)**

S 2 - Keep out of the reach of children.

S46 - If swallowed, seek medical advice immediately and show this container or label.

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Sulfur, precipitated	7704-34-9	Xi; R38	No information	S2 S46

**The product is classified in accordance with Annex VI to Directive 67/548/EEC**

**Indication of danger:**

Xi - Irritant.

Xi



## 16. OTHER INFORMATION

**Preparation Date:** 6/01/2015  
**Revision Date:** 7/20/2017  
**Prepared by:** Sonia Owen

**Disclaimer:**

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet**