


Section 1: Identification

Common Name/Trade Name	SULFUR PRECIPITATED USP	
Supplier Information	Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693	IN CASE OF EMERGENCY: Chemtrec 1 (800) 424-9300 (24 hours)
Product Synonym(s)	N/A	
Relevant Use(s) of Product	Manufacture or Compounding of Substances	

Section 2: Hazards Identification

Classification of Substance or Mixture	Flammable Solid (Category 1,2), Corrosive to Metals (Category 1), Acute Toxicity Oral (Category 5), Skin Corrosion/Irritation (Category 3), Serious eye damage/irritation (Category 2B), STOT, Single Exposure Respiratory Tract Irritation (Category 3)	
Signal Word	Warning	
Hazard Statement(s)	H228 Flammable solid H290 May be corrosive to metals H303 May be harmful if swallowed H316 Causes mild skin irritation H320 Causes eye irritation H335 May cause respiratory irritation	
Pictogram(s)		
Precautionary Statement(s)	P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking. P220 Keep/Store away from clothing/combustible materials. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash hands thoroughly after handling. P284 Wear respiratory protection. P362 Take off contaminated clothing and wash before reuse. P363 Wash contaminated clothing before reuse. P370+P378 In case of fire Use water fog, spray, or regular foam for extinction. P381 Eliminate all ignition sources if safe to do so. P402 Store in a dry place. P403 Store in a well ventilated place. P404 Store in a closed container.	
Hazards Not Otherwise Classified	No data available	
Ingredient(s) with Unknown Toxicity	No data available	

Section 3: Composition/Information on Ingredients

Chemical Name	N/A
Common Name	Sulfur
CAS Number	7704-34-9
Impurities and/or Stabilizing Additives	No data available

Section 4: First Aid Measures

General Advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If Inhaled	Move victim to fresh air. Watch for signs of an allergic reaction. Use a bronchodilator inhaler if directed by asthma patient. Keep victim warm and quiet. If not breathing, give artificial respiration. If heart has stopped beating, start cardiopulmonary resuscitation (CPR). SEEK MEDICAL ATTENTION.
In Case of Skin Contact	Wash skin thoroughly with mild soap and water. Wash exposed clothing separately before reuse.
In Case of Eye Contact	Immediately flush eyes with plenty of water for 15 minutes, while holding upper and lower lid apart to insure rinsing of entire eye surface and lids. Do not use boric acid to rinse with. FOR SEVERE IRRITATION, SEEK MEDICAL ATTENTION, preferably and ophthalmologist.
If Swallowed	Give one tablespoon of Syrup of Ipecac to induce vomiting. If vomiting does occur, give fluids again. If vomiting has not occurred in twenty minutes, the same dose of Syrup of Ipecac may be repeated one additional time. Alternatively, vomiting may be induced by touching the back of the throat with a finger. Do not give anything by mouth to an unconscious person. SEEK MEDICAL ATTENTION.
Most Important Symptoms and Effects	Refer to Section 11: Toxicological information. Individuals with known allergies to sulfide drugs may also have allergic reactions to elemental sulfur.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	Use water fog, spray, or regular foam. Do not use a direct water stream. Do not use solid streams of water, which could create sulfur dust clouds and cause an explosion or could move burning sulfur to adjacent areas.
Special Hazards Arising From the Substance/Mixture	Prevent human exposure to smoke, fumes, or products of combustion (sulfur oxide gases). Evacuate nonessential personnel from the fire area. If large fire, evacuate people downwind from fire. Consider evacuation for 1/2 mile in all directions. Fire will rekindle until mass is cooled below 310F (154C). Cool surrounding areas with water fog to prevent re-igniting. Sulfur dust is HIGHLY FLAMMABLE. If suspended in air, it will ignite by friction, static electricity, heat, sparks, or flames. Sulfur dust clouds may explode. Combustion products: Sulfur oxide gases.
Special PPE and/or Precautions for Firefighters	Firemen exposed to contaminated smoke should be immediately relieved and checked for symptoms of exposure of toxic gases. This should not be mistaken for heat exhaustion or smoke inhalation. Seek medical attention immediately! Wear full-faced, self-contained breathing apparatus and full protective clothing.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures	Maintain adequate ventilation. Wear dust mask when dust is present or a respirator if smoke is present. Wear safety glasses. As an immediate precautionary measure isolate spills or leak areas. Eliminate all sources of ignition, such as flares, sparks, or flames, in the immediate area. No smoking. Ventilate closed spaces before entering.
Methods and Materials Used for Containment	Do not allow runoff to enter lakes or waterways.
Cleanup Procedures	Minor spills such as torn or ruptured containers should be repaired or patched with tape if possible. Places spilled material in a disposable container. Avoid getting dust in eyes. Gently sweep or shovel up spilled material using a natural fiber broom and/or aluminum shovel to prevent sparking, to avoid creating a dust cloud. Place sweepings in an appropriate chemical waste container for reclaiming or disposal in an approved facility. Wash spill site after clean-up is complete.

Section 7: Handling and Storage

Precautions for Safe Handling	All handling and conveying equipment should be properly grounded and bonded. Be careful not to create dust. Avoid any conditions that might tend to create a dust explosion. Maintain good housekeeping practices to minimize dust build up and dispersion. Eliminate sources of ignition. Keep away from heat, sparks, and flames. Use nonferrous tools, when available, to reduce sparking. Gently sweep or shovel up spilled materials using a natural fiber broom and/or aluminum shovel to prevent sparking. Maintain adequate ventilation in all areas.
Conditions for Safe Storage	Containers should be stored in a cool, dry, well-ventilated area. Keep container tightly closed. Store away from flammable materials, sources of heat, flames, and sparks. Separate from chlorates, nitrates, and other oxidizing agents. Exercise due caution to prevent damage to or leakage from container. Incompatible Materials: Keep away from flammable materials, sources of heat, flame, sparks, chlorates, nitrates, and other oxidizing agents.

Section 8: Exposure Controls/Personal Protection

Components with Workplace Control Parameters	No information available.
Appropriate Engineering Controls	Maintain adequate ventilation in all areas. No flares or flames in area. Be careful not to create dust. Eliminate sources of ignition. Follow best practice for site management and disposal of waste. Avoid release to the environment. Protective equipment should be used in any situation that may result in hazardous exposure. Maintain good housekeeping practices to minimize dust build-up and dispersion. Eliminate sources of ignition. Use nonferrous tools to reduce sparking. Sweep or shovel up spilled material using a natural fiber broom and/or aluminum shovel to prevent sparking. Maintain adequate ventilation in all areas.
PPE - Eye/Face Protection	Wear suitable, protective safety glasses to prevent eye irritation from dust.
PPE - Skin Protection	Wash hands thoroughly after handling and before eating or smoking. Wear suitable, protective clothing to prevent skin irritation from dust. Wash skin thoroughly after handling and before eating or smoking. Wash contaminated clothing separately before use.
PPE - Body Protection	Wash hands thoroughly after handling and before eating or smoking. Wear suitable, protective clothing to prevent skin irritation from dust. Wash skin thoroughly after handling and before eating or smoking. Wash contaminated clothing separately before use.
PPE - Respiratory Protection	Wear dust masks and use NIOSH/MSHA approved dust respirator if airborne concentrations exceed exposure limits.

Section 9: Physical and Chemical Properties

Appearance	Physical State: Solid. Appearance: Yellow colored lumps, crystals, powder, or formed shape.
Upper/Lower Flammability or Explosive Limits	Upper: 6.38% (v) Lower: 0.17% (v)
Odor	Odorless, or faint odor of rotten eggs
Vapor Pressure	8mmHg at 246C (475F) 1mmHg at 183.8C (362.8F)
Odor Threshold	No data available
Vapor Density	No data available
pH	No data available
Relative Density	Bulk Density: Lumps: 75- 115lb/ft3. Powder: 33-80lb/ft3.
Melting Point/Freezing Point	Melting point/range: 117 - 120 °C (243 - 248 °F) - lit.
Solubility	Water solubility insoluble
Initial Boiling Point and Boiling Range	832F (444C)
Flash Point	207 °C (405 °F) - closed cup
Evaporation Rate	No data available
Flammability (Solid, Gas)	May form combustible dust concentrations in air.
Partition Coefficient	No data available
Auto-Ignition Temperature	240 °C (464 °F)
Decomposition Temperature	Does not decompose
Viscosity	Not applicable

Section 10: Stability and Reactivity

Reactivity	No data available
Chemical Stability	Stable.
Possibility of Hazardous Reactions	Oxidizing agents may react violently
Conditions to Avoid	Keep from heat sources, sparks, and open flames.
Incompatible Materials	Oxidizing agents, copper, copper alloys, steel, chlorates, nitrates.
Hazardous Decomposition Products	Oxides of sulfur gases produced by burning sulfur. Hazardous polymerization will not occur.

Section 11: Toxicological Information

Acute Toxicity - LD50 Oral	LD50 Oral: >5050 mg/kg (rats)
Acute Toxicity - Inhalation	Inhalation @ 90%: >5.49-mg/L air concentration (rats). Prolonged inhalation may cause irritation of respiratory tract. Breathing of dust may aggravate asthma and other pulmonary diseases.
Acute Toxicity - Dermal	Dermal: >2020 mg/kg (rats) Slightly irritating (rabbits)
Acute Toxicity - Eye	Minimal irritation in non-washed eyes (rabbits). Sulfur dust is an eye irritant.
Skin Corrosion/Irritation	No adverse effects; however, skin irritation may be aggravated in persons with existing skin lesions.
Serious Eye Damage/Irritation	Minimal irritation in non-washed eyes (rabbits)
Respiratory or Skin Sensitization	No data available
Germ Cell Mutagenicity	No data available
Carcinogenicity IARC	This product does not contain any ingredient designated by NTP, IARC, or OSHA as a probable human carcinogen.
Carcinogenicity ACGIH	No data available.
Carcinogenicity NTP	This product does not contain any ingredient designated by NTP, IARC, or OSHA as a probable human carcinogen.
Carcinogenicity OSHA	This product does not contain any ingredient designated by NTP, IARC, or OSHA as a probable human carcinogen.
Reproductive Toxicity	No data available
Specific Target Organ Toxicity - Single Exposure	STOT, Single Exposure Respiratory Tract Irritation (Category 3)
Specific Target Organ Toxicity - Repeated Exposure	No data available
Aspiration Hazard	No data available

Section 12: Ecological Information

Toxicity	Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - > 180 mg/l - 96 h LC50 - other fish - 866 mg/l - 96 h Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - > 5,000 mg/l - 48 h
Persistence and Degradability	No data available
Bio-accumulative Potential	No data available
Mobility in Soil	No data available
Other Adverse Effects	No data available

Section 13: Disposal Considerations

Waste Treatment Methods Product	Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
Waste Treatment Methods Packaging	Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
Special Precautions Landfill or Incinerations	No data available
Other Information	No data available

Section 14: Transport Information

UN Number	UN1350
UN Proper Shipping Name	Sulfur
Transport Hazard Class(es)	DOT (Domestic): 9 (Misc. Hazardous Materials), DOT (International): 4. TDG: 4.1, IMO/IMDG: 4.1 (flammable solid), IATA/ICAO: 4.1
Packaging Group	III
Environmental Hazards	This product is not a Marine Pollutant as defined in 40 CFR Part 172.

Section 15: Regulatory Information

TSCA: This product is listed on the TSCA Inventory at CAS Registry Number 7704-34-9. CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA): If this product is accidentally spilled, it is not subject to any special reporting. We recommend that you contact state and local authorities to determine if there are other local reporting requirements. SARA Title III: Superfund Amendments and Reauthorization Act, Title III: Sections 311/312: None. Section 313: None. Section 302: None. RCRA: Resource Conservation and Recovery Act: Not subject to reporting because sulfur is not identified as a hazardous waste.

Section 16: Other Information

Additional Information	N/A
Prepared By	Scarlotte Smith
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Disclaimer

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