1. CHEMICAL IDENTITY

Chemical Name: Sulphur monochloride
Chemical Classification: Corrosive, Toxic
Trade Name:
Synonyms: Sulfur chloride, Chloride of sulfur; Sulfur subchloride, Disulfur dichloride

Formula: Cl₂S₂
CAS No: 10025-67-9
UN No: 1828

Regulated Identification
Shipping Name: Corrosive, Toxic
Hazchem Code: 4WE

<table>
<thead>
<tr>
<th>HAZARDOUS INGREDIENTS</th>
<th>C.A.S. No.</th>
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<tr>
<td>1 Sulphur monochloride</td>
<td>10025-67-9</td>
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2. PHYSICAL / CHEMICAL DATA

Boiling Pt. °C: 135.6
Physical State: Liquid
Vapour Pressure @ 35°C mmHg: 6.8 mm Hg @ 20 deg C
Vapour Density (Air =1): 4.66
Solubility in water at 30°C g/100ml: Decomposes
Appearance: A yellow-red, oily, fuming liquid
Odour: Pungent, nauseating, irritating odour.
Others: Soluble in alcohol, benzene, ether, carbon disulfide, carbon tetrachloride, oils.

Specific Gravity (Water =1): 1.6885 @ 15.5 deg C/15.5 deg C
pH: 

3. FIRE / EXPLOSION HAZARD DATA

Flammability: LEL:
TDG Flammability: UEL:
Autoignition Temperature °C: 234
Flash Point °C in OC: 119
Flash Point °C in CC:

Explosion sensitivity to impact:
Explosion sensitivity to static Electricity:
Hazardous Combustion Products: Toxic and corrosive fumes are evolved when heated.

4. REACTIVITY DATA

Chemical Stability: Stable at ambient temperature.
Incompatibility with other material: Peroxides, oxides of phosphorous, organics, water (decomposes violently in water to form hydrochloric acid, sulfur dioxide, sulfur, sulfite,

Hazardous Reaction Products:

5. HEALTH HAZARD DATA

Routes of entry: Inhalation, Ingestion, Skin and Eyes

Effects of Exposure / Symptoms:

Inhalation: Changes in breathing pattern, irritation, changes in pulmonary function, corrosion and edema of the respiratory tract, chronic bronchitis and noncardiogenic pulmonary edema have been observed. Ingestion: Gastritis, burns, gastric hemorrhage, dilation, edema, necrosis, and strictures may occur. Skin: Burns, ulceration, scarring, blanching, and irritation may occur. Eye: Dental discoloration or erosion, bleeding gums, corneal necrosis, inflammation of the eye, eye and nasal irritation, nasal ulceration, nose bleeds, throat irritation and ulceration have been observed.

Emergency Treatment:

Inhalation: Move patient to fresh air. Monitor for respiratory distress. Administer oxygen and assist ventilation as required. Treat bronchospasm with beta2 agonist and corticosteroid aerosols.

Skin: Remove and isolate contaminated clothing and shoes. In case of contact with substance, immediately flush with running water for at least 20 minutes. For minor skin contact, avoid spreading material on unaffected skin.

Eyes: Irrigate exposed eyes with copious amounts of tepid water for at least 15 minutes. If irritation, pain, swelling, lacrimation, or photophobia persist, the patient should be seen in a health care facility.

Ingestion: Activated charcoal: administer charcoal as a slurry (240 ml water/30 g charcoal). Usual dose: 25 to 100 g in adults/adolescents.

LD50 (oral-rat) mg/kg: STEL:
LC50 (rat) mg/kg: Odour Threshold: 7.0 mg/m3
Permissible Exposure Limit: 1 ppm (6 mg/m3) TLV (ACGIH):

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<tr>
<th>NFPA Hazard Signals</th>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
<th>Special</th>
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6. PREVENTIVE MEASURES

Personal Protective: Wear appropriate protective gloves, clothing and goggles.

Equipment Handling: All chemicals should be considered hazardous. Avoid direct physical contact. Use appropriate, approved safety equipment. Untrained individuals should not handle this chemical or its container. Handling should occur in a chemical fume hood.

Storage: Keep in a cool, dry, dark location in a tightly sealed container or cylinder. Keep away from incompatible materials, ignition sources and untrained individuals. Secure and label area. Protect containers/cylinders from physical damage.

Precautions: 

Sulphur monochloride
7. EMERGENCY / FIRST AID MEASURES

FIRE:
Fire Extinguishing Media:
Special Procedure:
Unusual Hazards:

EXPOSURE: First Aid Measures:
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Antidotes / Dosages:

SPILLS:
Steps To Be Taken: Use water spray to knock-down vapors. Do not use water on material itself. Neutralize spilled material with crushed limestone, soda ash, or lime. Land spill: Dig a pit, pond, lagoon, holding area to contain liquid or solid material.

Waste Disposal Method:

8. ADDITIONAL INFORMATION / REFERENCES

9. MANUFACTURERS / SUPPLIERS DATA

NAME OF FIRM: Contact person
MAILING ADDRESS: in Emergency:
TELEPHONE / TELEX NOS: Local Bodies involved:
TELEGRAPHIC ADDRESS: Standard Packing:
OTHERS: Trem Card Details / Ref:

10. DISCLAIMER

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Total No. of Pages: 3