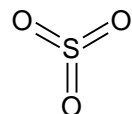


Liquid Sulfur trioxide

Bulk Chemicals and Intermediates | Technical Data Sheet

Synonyms

Sulfuric anhydride



Molecular formula	O ₃ S
Molecular weight	80.0
CAS number	7446-11-9
EINECS number	231-197-3

Specifications

Appearance	Clear, colourless fuming liquid
Free sulfur trioxide	99.2% minimum

Physical properties

Boiling point	45°C
Melting point	16.8°C
Specific gravity	1.92
Vapour density	2.8 (air-1)

Description

Sulfur trioxide is a clear, colourless fuming liquid with a strong odour. It reacts violently with water.

Applications

Intermediate for chemicals

Packaging

Sulfur trioxide is available in bulk tankers. Other packaging may be considered on request.

Storage and handling

Store in a tightly closed container. Keep in a cool, dry and well-ventilated area. Sulfur trioxide is moisture-sensitive. Keep away from heat, any sources of ignition, direct sunlight or strong incandescent light. Do not breathe gas | fumes | vapours | spray. Never add water to this product. Avoid shock and friction. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, get immediate medical advice. Avoid contact with skin and eyes. Keep away from incompatible materials such as oxidising agents, metals, alkalis and moisture. Always refer to the Safety Data Sheet (SDS) for detailed information on storage and handling.

Safety

Wear personal protective equipment (PPE) such as safety glasses or chemical goggles, full-body suit, vapour respirator, safety shoes and gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient, consult a specialist before handling this product. Always refer to the SDS for detailed information on safety.

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First aid

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

Skin contact: Wash the affected area(s) with plenty of water and soap. Apply an emollient to irritated skin. Remove contaminated clothing and shoes; wash them properly before reuse. Get immediate medical attention.

Ingestion: If swallowed, do not induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as collar, tie, belt or waistband. Get immediate medical attention.

Inhalation: Shift the person to fresh air. If the person is not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

Spills and disposal

This material is a corrosive and toxic liquid. Stop leakage if without risk. Absorb spilled material with dry sand or other non-combustible material(s) and place in an appropriate chemical waste container for subsequent waste disposal. Do not touch spilled material. Use a water spray curtain to divert vapour drift and reduce vapours. Prevent entry into sewers, basements or confined areas. Dike if needed. Waste must be disposed of in accordance with federal, state or local regulations, as applicable.

Contact

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