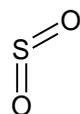


Liquid Sulfur dioxide

Bulk Chemicals and Intermediates | Technical Data Sheet

Synonyms

Sulfurous oxide; Sulfurous anhydride



Molecular formula	O ₂ S
Molecular weight	64.06
CAS number	7446-09-5
EINECS number	231-195-2

Specifications

Appearance	Colourless liquid with a strong and pungent odour
Acidity	50 ppm maximum

Physical properties

Boiling point	-10°C
Melting point	-75.5°C
Vapour pressure	3.3 bar at 20°C

Description

Liquid sulfur dioxide is a colourless fuming liquid with a strong and pungent odour. It reacts violently with water.

Applications

As a disinfectant in breweries and food factories, for bleaching textile fibers, as a solvent and in preserving fruits and vegetables

Packaging

Liquid sulfur dioxide is available in tonners.

Storage and handling

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

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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.

First aid

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

Skin contact: Immediately wash skin with plenty of water for at least 15 minutes. Remove all contaminated clothing and shoes; wash them properly before reuse. Apply an emollient to irritated skin. 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 corrosive and toxic. In case of spills, evacuate personnel to a safe area. Approach suspected leak area with caution. Remove all sources of ignition. Toxic or corrosive vapours may spread from spillage. Ventilate area or move container to a well-ventilated area. Absorb spilled material with an inert material and keep it for appropriate 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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