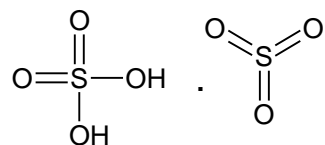


# Oleum 65% and 25%

Bulk Chemicals and Intermediates | Technical Data Sheet

## Synonyms

Fuming sulfuric acid; Sulfuric acid with mixed sulfur trioxide



Molecular formula	H <sub>2</sub> S <sub>2</sub> O <sub>7</sub>
Molecular weight	178.0
CAS number	8014-95-7
EINECS number	231-639-5

## Specifications

Appearance	Colourless to off-white fuming liquid
Residue on ignition	0.2% w/w maximum
Fe content	0.05% w/w maximum

### Specifications: Oleum 65%

Total sulfur trioxide	93.5% w/w minimum
Free sulfur trioxide	65% w/w minimum

### Specifications: Oleum 25%

Total sulfur trioxide	86.2% w/w minimum
Free sulfur trioxide	25% to 26.5% w/w minimum

### Physical properties: Oleum 65%

Melting point	0.5°C
Boiling point	60°C
Specific gravity	1.992 at 20°C

### Physical properties: Oleum 25%

Melting point	14°C
Boiling point	130°C
Specific gravity	1.935 at 20°C

## Description

Oleum 65% and 25% is a colourless to off-white fuming liquid with a strong odour. It is miscible in water and reacts violently with water.

## Applications

Intermediate for chemicals and dyes

## Packaging

Oleum 65% and 25% is available in tankers. Other packaging may be considered on request.

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## Storage and handling

Keep containers closed. Store in a dry and well-ventilated location away from combustibles, oxidisers, bases or metallic powders. Storage tanks should be protected from water ingress and maintained structurally in a safe and reliable condition. Wear appropriate personal protective equipment (PPE). Use only with adequate ventilation. Do not breathe sprays or mists and wash hands thoroughly after handling. Do not allow the product to get into the eyes, on skin or on clothing. Individuals working with this chemical should be properly trained regarding its hazards and safety. Always refer to the Safety Data Sheet (SDS) for detailed information on storage and handling.

## Safety

Wear personal protective equipment (PPE) such as goggles, full-body suit, safety shoes and gloves. Always wear a self-contained breathing apparatus or a full-face airline respirator to avoid inhalation of the product. Prevent breathing of mist or vapours. Prevent contact with skin, eyes and clothing. Ensure adequate ventilation. Always refer to the Safety Data Sheet (SDS) for detailed information on safety.

## First aid

**Eye contact:** Immediately flush eyes with running water for at least 20 minutes. If irritation persists, repeat flushing. Get immediate medical aid.

**Skin contact:** Wash affected area(s) with running water for at least 20 minutes. If irritation persists, repeat flushing. If medical treatment is delayed, immerse the affected area(s) in cold water. Remove contaminated clothing and wash thoroughly before reuse. Get immediate medical aid.

**Ingestion:** Do not induce vomiting. If the person is alert and not convulsing, rinse mouth and give ½ to 1 glass of water to dilute material. If spontaneous vomiting occurs, have the person lean forward with the head down to avoid breathing in. Get immediate medical aid.

**Inhalation:** Shift the person to fresh air. If the person is not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

## Spills and disposal

Personnel handling this material should be thoroughly trained to handle spills and releases. In case of spills, dike by using absorbent or impervious materials such as sand or clay. Stop leakage if possible without risk. Flush spilled area with water and neutralise the site with soda ash, sodium bicarbonate or lime. Do not allow it to contaminate the groundwater system. Waste must be disposed of in accordance with federal, state or local regulations, as applicable.

## Contact

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