

MSDS MATERIAL SAFETY DATA SHEET

Oakwood Products, Inc
1741 Old Dunbar Road
West Columbia, SC 29172
www.oakwoodchemical.com

Phone Numbers:

Product Information	803-739-8800
Transportation Emergency	800-451-8346
Outside the USA	760-602-8700

MATERIAL IDENTIFICATION

NAME: Methanesulfonyl chloride

CAS#: [124-63-0]

CAT#: 9736

EC: [204-706-1]

SYNONOMS: Chloromethyl sulfone, Mesyl chloride, Methanesulfonic acid chloride, Methyl sulfochloride.

For R&D use only.

HEALTH HAZARD INFORMATION

CORROSIVE

HIGHLY TOXIC

TOXIC BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.

CORROSIVE/CAUSES BURNS

LACHRYMATOR

Avoid prolonged exposure.

Do not breathe vapor.

Use caution when handling.

Exposure to any chemical should be limited.

To the best of our knowledge, the health hazards of this material have not been fully investigated.

Material is for research and development purposes only.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Avoid all direct contact with product.

Wear protective safety goggles.

Wear chemical-resistant gloves.

Wear protective clothing and boots.

Ensure ventilation during use.

After contact with skin, wash immediately.

FIRST AID

EYE CONTACT: Check for and remove any contact lenses. IMMEDIATELY flush eyes with running water for at least 15 minutes while keeping eyes open. COLD water may be used. Seek medical attention.

SKIN CONTACT: After contact with skin, wash with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. COLD water may be used. Cover the irritated skin with an emollient. Seek medical attention. Wash any contaminated clothing before reusing.

INHALATION: Remove victim from source of exposure to fresh air. If breathing is difficult administer oxygen. Seek medical attention.
INGESTION: Do not induce vomiting. Give water to victim to drink. Seek medical attention.

FIRE MEASURES

Extinguishing media: carbon dioxide, dry chemical powder, do not use water.
Special fire-fighting procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Unusual fire and explosion hazards/decomposition of product: water hydrolyzes material liberating acidic gas which in contact with metal surfaces can generate flammable and/or explosive hydrogen gas. Emits toxic fumes under fire conditions.

HANDLING AND STORAGE INFORMATION

CORROSIVE
HIGHLY TOXIC
AVOID PROLONGED USE
AVOID ALL DIRECT CONTACT WITH MATERIAL
Wash thoroughly after handling.
Do not breathe dust or vapor.
Have safety shower and eye wash available.
Do not get in eyes, on skin, on clothing.
Keep container tightly closed.
Store in a cool, dry, well-ventilated area.
Ensure adequate ventilation during use.
Use only in a chemical fume hood.
Avoid sources of ignition.
Keep cold.
Moisture sensitive.

ACCIDENTAL RELEASE MEASURES

Steps to be taken if material is released or spilled: Wear appropriate respirator, rubber boots and heavy rubber gloves. Cover with dry-lime, sand, or soda ash. Place in covered containers using non-sparking tools and transport outdoors. Ventilate area and wash spill site after pickup is complete. Wash skin immediately with plenty of water.

DISPOSAL INFORMATION

The material should be ignited in the presence of sodium carbonate and slaked lime. The substance should be mixed with vermiculite and then with the dry caustics, wrapped in paper and burned in a chemical incinerator equipped with and afterburner. Observe all Federal, State and local laws.

PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: liquid
MF: CH₃ClO₂S
MW: 114.55
BP: >160°C

MP: no data
DEN: 1.48
N_d²⁰: 1.45
FP: 113°C

REACTIVITY DATA

INCOMPATIBILITIES: strong oxidizing agents, strong bases, alcohols and moisture.
HAZARDOUS DECOMPOSITION PRODUCTS: may evolve carbon monoxide, carbon dioxide, sulfur oxides, and hydrogen chloride.

TOXICITY INFORMATION

ACUTE EFFECTS:

Corrosive

Toxic

May be fatal if inhaled or absorbed through the skin.

Material is extremely destructive to tissue of the mucous membranes, upper respiratory tract, eyes, and skin.

Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema.

Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting.

RTECS: PB2790000

IRRITATION DATA:

SKN-RBT 500 MG SEV NTIS** OTS0571119

EYE-RBT 100 MG SEV NTIS** OTS0571119

TOXICITY:

ORL-RAT LD50:50 MG/KG NTIS** OTS0571119

ORL-MUS LD50:200 MG/KG NTIS** OTS0571119

IPR-MUS LD50:10 MG/KG NTIS** OTS0571119

SKN-GPG LD50:100 UL/KG NTIS** OTS0571119

TARGET ORGAN DATA:

BEHAVIORAL (SOMNOLENCE)

BEHAVIORAL (CONVULSIONS OR EFFECT ON SEIZURE THRESHOLD)

BEHAVIORAL (ATAXIA)

KIDNEY, URETER, BLADDER (HEMATURIA)

ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES (RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR COMPLETE INFORMATION.

To the best of our knowledge, the toxicological properties of this product have not been fully determined.

Oakwood Products, Inc
1741 Old Dunbar Road
West Columbia, SC 29172
Phone: (803) 739-8800
Fax: (803) 739-6957

Methanesulfonyl chloride
September 30, 2009

TRANSPORT INFORMATION

DOT

Methanesulfonyl chloride
6.1, 8
UN3246 I
Inhalation Zone B

IATA

Methanesulphonyl chloride
6.1, 8
UN3246 I
Inhalation Zone B

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Oakwood shall not be held liable for any damage resulting from handling or from contact with the above product.