

# SDS

## SAFETY DATA SHEET

Oakwood Products, Inc  
730 Columbia HWY N  
Estill, SC 29918  
[www.oakwoodchemical.com](http://www.oakwoodchemical.com)

**Phone Numbers:**

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

---

**MATERIAL IDENTIFICATION**

NAME: 2-Chloroethyl methanesulfonate  
CAS#: [3570-58-9]  
CAT#: 099605  
For R&D use only.

---

**HAZARDS IDENTIFICATION****GHS Classification**

Acute toxicity, oral (Category 4)  
Acute toxicity, dermal (Category 4)  
Acute toxicity, inhalation (Category 4)  
Carcinogenicity (Category 2)

**GHS Label elements, including precautionary statements****Pictograms****Signal Word**

Warning

**Hazard Statement(s)**

|      |                              |
|------|------------------------------|
| H302 | Harmful if swallowed         |
| H312 | Harmful in contact with skin |
| H332 | Harmful if inhaled           |
| H351 | Suspected of causing cancer  |

**Precautionary Statement(s)**

|             |  |
|-------------|--|
| P201        | Obtain special instructions before use.                                    |
| P202        | Do not handle until all safety precautions have been read and understood.  |
| P261        | Avoid breathing dust/fume/gas/mist/vapours/spray.                          |
| P280        | Wear protective gloves/protective clothing/eye protection/face protection. |
| P301 + P312 | IF SWALLOWED: call a POISON CENTER or doctor/physician IF you              |

|             |  |
|-------------|--|
|             | feel unwell.   |
| P302 + P352 | IF ON SKIN: wash with plenty of soap and water.  |
| P304 + P340 | IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing. |
| P308 + P313 | IF exposed or concerned: Get medical advice/attention.   |
| P330        | Rinse mouth.   |

---

## COMPOSITION/INFORMATION ON INGREDIENTS

|                  |  |
|------------------|--|
| Synonyms         | : 2-Chloroethyl mesylate                           |
| Formula          | : C <sub>3</sub> H <sub>7</sub> ClO <sub>3</sub> S |
| Molecular Weight | : 158.60 g/mol                                     |

| CAS       | Description                    | Concentration |
|-----------|--------------------------------|---------------|
| 3570-58-9 | 2-Chloroethyl methanesulfonate | 99%           |

---

## FIRST AID MEASURES

### In case of eye contact

Immediately flush eyes with running water for at least 15 minutes while keeping eyes open. Seek medical attention.

### In case of skin contact

Wash thoroughly with soap and plenty of water. Seek medical attention.

### If inhaled

Remove victim from source of exposure to fresh air. If breathing is difficult, administer oxygen. Seek medical attention.

### If swallowed

Do not induce vomiting. Give water to victim to drink. Seek medical attention.

---

## FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Use carbon dioxide, dry chemical powder, alcohol-resistant or polymer foam.

### Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

### Unusual fire and explosion hazards/decomposition of product

emits toxic fumes under fire conditions.

---

## ACCIDENTAL RELEASE MEASURES

### Personal precautions

Use personal protective equipment. Avoid breathing fumes, vapors, mists or gas. Ventilate area. Remove all sources of ignition. Evacuate personnel.

### Environmental precautions

Prevent further leakage if safe to do so.

**Methods and materials for containment and clean up**

Absorb spills on sand or vermiculite and place in closed container for disposal.

---

**HANDLING AND STORAGE****Precautions for safe handling**

Avoid prolonged use. Avoid all direct contact with material. Do not breathe dust or vapor. Wash thoroughly after handling.

**Precautions for safe storage**

Keep container tightly closed. Store in a cool, dry, well-ventilated area.

---

**EXPOSURE CONTROL/PERSONAL PROTECTION**

Contains no substances with occupational exposure limit values.

**Personal protective equipment****Eye/face protection**

Wear protective safety goggles or face shields tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

**Hand/skin protection**

Avoid all direct contact with product.

Wear chemical-resistant gloves.

Wear protective clothing and boots.

After contact with skin, wash immediately.

**Respiratory protection**

Ensure adequate ventilation during use. Approved respiratory equipment must be used when airborne concentrations are unknown or exceed the exposure limits.

---

**PHYSICAL AND CHEMICAL PROPERTIES**

|  |                        |
|--|------------------------|
| Appearance                                   | clear colorless liquid |
| Odour  | no data available      |
| Odour Threshold                              | no data available      |
| Melting point/Freezing Point                 | no data available      |
| Boiling Point                                | 125-126°C/9mm Hg       |
| Flash Point                                  | 113°C-closed cup       |
| Evaporation Rate                             | no data available      |
| Flammability (solid, gas)                    | no data available      |
| Upper/Lower Flammability or Explosive limits | no data available      |
| Vapour pressure                              | no data available      |
| Relative Density                             | 1.39                   |
| Solubility(ies)                              | no data available      |
| Partition coefficient: n-octanol/water       | no data available      |
| Auto-ignition temperature                    | no data available      |
| Decomposition temperature                    | no data available      |
| Viscosity                                    | no data available      |

---

**STABILITY AND REACTIVITY****Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

no data available

**Conditions to avoid**

no data available

**Incompatible materials**

Strong oxidizing agents and strong bases.

**Hazardous decomposition products**

May evolve carbon monoxide, carbon dioxide, sulfur oxides, and hydrogen chloride.

---

**TOXICOLOGICAL INFORMATION****Acute toxicity****Intraperitoneal LD50**

Rat - 135 mg/kg

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitization**

no data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

no data available

**Reproductive toxicity**

no data available

**STOT-single exposure**

no data available

**STOT-repeated exposure**

no data available

**Aspiration hazard**

no data available

**Exposure Routes**

May be harmful to skin, eyes, and respiratory system.

May have harmful effects if inhaled or swallowed.

### **Additional Information**

RTECS: KK1960000

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

---

## **ECOLOGICAL INFORMATION**

### **Toxicity**

no data available

### **Persistence and degradability**

no data available

### **Bioaccumulative potential**

no data available

### **Mobility in soil**

no data available

### **PBT and vPvB assessment**

no data available

### **Other adverse effects**

no data available

---

## **DISPOSAL CONSIDERATIONS**

Dissolve in or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all Federal, State and local laws.

---

## **TRANSPORT INFORMATION**

### ***DOT***

Classed non-hazardous for shipping.

### ***IMDG***

Classed non-hazardous for shipping.

### ***IATA***

Classed non-hazardous for shipping.

---

## **REGULATORY INFORMATION**

### **SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### **SARA 313 Components**

SARA 313: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.

### **New Jersey Right to Know Components**

This product may contain a chemical on the New Jersey Right to Know Components List.

**CAS**

**California Prop. 65 Components**

This product may contain a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm.

---

**OTHER INFORMATION**

Version : 1.0

Revision Date : 4/21/2016

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.