



# Central Pollution Control Board

Ministry of Environment & Forests, Govt of India, Parivesh Bhawan, East Arjun Nagar, Delhi - 110032

## MATERIAL SAFETY DATA SHEETS

455

Oxetane 3,3-bis(chloromethyl)

### 1. CHEMICAL IDENTITY

**Chemical Name :** Oxetane 3,3-bis(chloromethyl)

**Chemical Classification:** Toxic

**Trade Name :**

**Synonyms:** 3,3-Bis(chloromethyl)oxetane, 3,3-Bis(chloromethyl)oxacyclobutane, 3,3-Bis(chloromethyl)-1-oxacyclobutane

**Formula :** C<sub>5</sub>H<sub>8</sub>Cl<sub>2</sub>O

**CAS No:** 78-71-7

**UN No:**

#### Regulated Identification

**Shipping Name :**

**Hazchem Code :**

**Codes / Label :** Toxic

**Hazardous Waste ID No :**

HAZARDOUS INGREDIENTS	C.A.S. No.	HAZARDOUS INGREDIENTS	C.A.S. No.
1 Oxetane 3,3-bis(chloromethyl)	78-71-7	3	
2		4	

### 2. PHYSICAL / CHEMICAL DATA

**Boiling Pt. °C:** 200

**Physical State:** Solid

**Appearance:** White crystalline powder.

**Melting Pt °C:** 18.9

**Vapour Pressure @ 35°C mmHg:**

**Odour:** Odourless

**Vapour Density(Air =1):**

**Solubility in water at 30°C g/100ml:** Insoluble

**Others:**

**Specific Gravity (Water =1 ):** 1.2990 g/cm<sup>3</sup>

**pH :**

### 3. FIRE / EXPLOSION HAZARD DATA

**Flammability :**

**LEL:**

**Flash Point °C in OC:** >75

**TDG Flammability:**

**UEL:**

**Flash Point °C in CC:**

**Autoignition Temperature °C :**

**Explosion sensitivity to impact:**

**Explosion sensitivity to static Electricity:**

**Hazardous Combustion Products :**

**Hazardous Polymerization :**

**Combustible Liquid:**

**Explosive Material:**

**Corrosive Material**

**Flammable Material:**

**Oxidiser :**

**Others:**

**Pyrophoric Material:**

**Organic Peroxide :**

### 4. REACTIVITY DATA

**Chemical Stability :** Stable at normal temperatures and pressures. Avoid excess heat, friction, electrostatic discharge, sparks, open flame and excess heat.

**Incompatibility with other material :** Strong inorganic mineral acids.

**Reactivity :**

**Hazardous :**  
**Reaction Products**

## 5. HEALTH HAZARD DATA

**Routes of entry:** Inhalation, Ingestion, Skin and Eyes

### Effects of Exposure / Symptoms:

May cause irritation to the eyes, skin or respiratory tract. Chronic exposure may cause damage to the eyes, skin, respiratory system or other organ systems.

### Emergency Treatment :

**Inhalation:** Remove to fresh air. Seek medical attention.

**Skin:** Flush with water for at least 15 minutes. Seek medical attention.

**Eyes:** Flush with water for at least 15 minutes. Seek medical attention.

**Ingestion:** Induce victim to vomit. Get medical attention.

<b>LD50 (oral-rat) mg/kg:</b>	<b>STEL:</b>
<b>LC50 (rat) mg/kg:</b> 0.2 mg/liter/2 hours (Mouse)	<b>Odour Threshold:</b>

<b>Permissible Exposure Limit:</b>	<b>TLV (ACGIH) :</b>
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<b>NFPA Hazard</b>	<b>Health</b>	<b>Flammability</b>	<b>Reactivity</b>	<b>Special</b>
<b>Signals</b>		1	1	

## 6. PREVENTIVE MEASURES

**Personal Protective :** Use chemical goggles and neoprene gloves and protective clothing.  
**Equipment**

**Handling :** Avoid contact with eyes, skin, and clothing. Do not breathe vapors. Wash thoroughly after handling. Contaminated clothing should be laundered before reuse. This material should only be handled in a hood.

**Storage :** Store in a cool dry location, away from incompatible materials.

**Precautions :**

## 7. EMERGENCY / FIRST AID MEASURES

### FIRE:

**Fire Extinguishing Media :**

**Special Procedure :**

**Unusual Hazards :**

### EXPOSURE: First Aid Measures:

**Inhalation:** Remove to fresh air. Seek medical attention.

**Skin:** Flush with water for at least 15 minutes. Seek medical attention.

**Eyes:** Flush with water for at least 15 minutes. Seek medical attention.

**Ingestion:** Induce victim to vomit. Get medical attention.

**Antidotes / Dosages:**

### SPILLS :

**Steps To Be Taken :** Sweep up and contain for disposal. Wash area with a minimal amount of water and use absorbent to pick up.

**Waste Disposal Method:**

## 8. ADDITIONAL INFORMATION / REFERENCES

A linear polymer extremely resistant to chemicals and to thermal degradation at molding and extrusion temperature. dimensionally stable, very low water absorption.

## 9. MANUFACTURERS / SUPPLIERS DATA

<b>NAME OF FIRM :</b>	<b>Contact person</b>
<b>MAILING ADDRESS :</b>	<b>in Emergency :</b>
<b>TELEPHONE / TELEX NOS :</b>	<b>Local Bodies involved :</b>
<b>TELEGRAPHIC ADDRESS :</b>	<b>Standard Packing :</b>
<b>OTHERS :</b>	<b>Trem Card Details / Ref :</b>

## 10. DISCLAIMER

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