



**MATERIAL SAFETY DATA SHEET
METHYL CHLOROACETATE**

Chloroacetic acid methyl ester
Methyl monochloroacetate
Methyl-alpha-chloroacetate

Manufacturer : S.R.Drugs & Intermediates Pvt. Ltd.,
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CAS No: 96-34-4 : $C_3H_5ClO_2$

UN NO. 2295 : Molecular mass: 108.53

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARD/ SYMPTOMS	PREVENTION	FIRST AID/ FIREFIGHTING
FIRE	Flammable. Gives off irritating or toxic fumes(or gases) in a fire	No open flames, NO sparks, & NO smoking	Dry powder, water spray, alcohol-resistant foam, carbon dioxide.
EXPLOSION	Above 57° centigrade explosive vapour /air mixtures may be formed	Above 57° C use a closed system, ventilation, and explosion-proof electrical equipment	In case of fire: keep drums, etc; cool by spraying with water
EXPOSURE		PREVENT GENERATION OF MISTS!	
INHALATION	Cough shortness of breath, Sore throat	Ventilation, local exhaust, or breathing protection	Fresh air; rest Refer for medical attention.
SKIN	MAY BE ABSORBED! Redness, Pain, Skin burns	Protective gloves. Protective clothing	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
EYES	Redness, Pain. Blurred vision	Face shield, or eye protection in combination with breathing protection	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
INGESTION	Abdominal pain, Nausea, Vomiting, Diarrhea	Do not eat, drink, or smoke during work.	Rinse mouth. Do Not induce vomiting. Refer for medical attention.



SPILLAGE DISPOSAL	PACKAGING & LABELLING
Remove all ignition sources. Collect leaking liquid in covered plastic containers. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Chemical protection suit including self-contained breathing apparatus.	Symbol : Do not transport with food and feedstuffs.UN Hazard Class: 6.1 UN Subsidiary Risks: 3 UN Pack Group: 1
EMERGENCY RESPONSE	STORAGE
	Fireproof. Separated from food and feedstuffs and incompatible materials. See Chemical Dangers.
IMPORTANT DATA	
Physical state appearance: COLOURLESS LIQUID, WITH CHARACTERISTIC ODOUR. Physical dangers: The vapour is heavier than air. Chemical dangers: The substance decomposes on burning producing corrosive fumes including hydrogen chloride. Reacts with reducing agents and oxidants. Occupational exposure limits TLV not established.	Routes of exposure:The substance can be absorbed into the body by inhalation of its vapour, through the skin and by ingestion. Inhalation risk: A harmful contamination of the air can be reached rather quickly on evaporation of this substance at 20°C. Effect of short- term exposure The substance is corrosive to the skin, is severely irritating to the eyes & is irritating to the respiratory tract.
PHYSICAL PROPERTIES	ENVIRONMENTAL DATA
Boiling point: 129.5°C Melting point: -32.1°C Density : 1.2g/cm ³ Solubility in water: g/100 ml at 19.8°C : 5.2 Flash point: 57°C o.c.	The substance is toxic to aquatic organisms.