



2,2,2-TRICHLOROETHYL CHLOROFORMATE, 96+WT%(GC)

Section 1 - Chemical Product and Company Identification

MSDS Name	2,2,2-TRICHLOROETHYL CHLOROFORMATE, 96+WT%(GC)
Synonyms	á,á,á-Trichloroethoxycarbonyl chloride, TceecCl
Company Identification	SPARCHEM LT MARG MUMBAI-01
Telephone nos	2642642/3

Section 2 - Composition, Information on Ingredients

CAS# Chemical Name % EINECS#

17341-93-4 2,2,2-TRICHLOROETHYL CHLOROFORMATE, 96+WT%(GC) 241-363-7

Section 3 - Hazards Identification

Hazard Symbols: T C

Risk Phrases: 23 34

EMERGENCY OVERVIEW

Toxic by inhalation. Causes burns. Mutagen. Moisture sensitive.

POTENTIAL HEALTH EFFECTS

Eye	Causes eye burns.
Skin	Causes skin burns.
Ingestion	Causes gastrointestinal tract burns.

Inhalation May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary

edema. Inhalation may be fatal as a result of spasm, inflammation, edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. Toxic if inhaled.

Chronic Not available.

Section 4 - First aid Measures

Eyes Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.

Skin Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion May cause methemoglobinemia, cyanosis, convulsions, and death.

Inhalation Remove from exposure to fresh air immediately.

Notes to Physician

Section 5 - Fire Fighting Measures

General Information As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media Do NOT use water directly on fire. Use foam, dry chemical, or carbon dioxide.

Section 6 - Accidental Release Measures

General Information Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks Absorb spill with inert material, (e.g., vermiculite, dry sand or earth), then place into a chemical waste container.

Section 7 - Handling and Storage

Handling Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood.

Storage Store in a tightly closed container. Store in a dry area. Refrigerator (approx 4°C).

Section 8 - Exposure Controls, Personal Protection

Engineering Controls Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

Eyes	Wear safety glasses and chemical goggles if splashing is possible.
Skin	Wear appropriate protective gloves and clothing to prevent skin exposure.
Clothing	Wear appropriate protective clothing to minimize contact with skin.
Respirators	Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

Section 9 - Physical and Chemical Properties

Physical State	Clear liquid
Appearance	faint yellow
Odor	Not available.
pH	Not available.
Vapor Pressure	60 mmHg @ 75 C
Viscosity	Not available.
Boiling Point	171.0 - 172.0 deg C @ 760.00m
Freezing/Melting Point	0 deg C
Autoignition Temperature	Not available.
Flash Point	Not available.
Explosion Limits, lower	Not available.
Explosion Limits, upper	Not available.
Decomposition Temperature	
Solubility	decomposes
Specific Gravity/Density	1.5390g/cm ³

Molecular Formula C₃H₂Cl₄O₂

Molecular Weight 211.86

Section 10 - Stability and Reactivity

Chemical Stability Stable under normal temperatures and pressures.

Conditions to Avoid Incompatible materials, exposure to moist air or water.

Incompatibilities with Other Materials Strong bases.

Hazardous Decomposition Products Hydrogen chloride, phosgene, carbon monoxide, carbon dioxide

Hazardous Polymerization Has not been reported.

Section 11 - Toxicological Information

RTECS# CAS# 17341-93-4 unlisted.

LD₅₀/LC₅₀ Not available.

Carcinogenicity 2,2,2-TRICHLOROETHYL CHLOROFORMATE, 96+WT%(GC) - Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA. See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

IATA	IMO		RID/ADR
Shipping Name:	CHLOROFORMATES, TOXIC, CORROSIVE, N.O.S.*	CHLOROFORMATES, TOXIC, CORROSIVE, N.O.S.	CHLOROFORMATES, TOXIC, CORROSIVE, N.O.S.
Hazard Class:	6.1	6.1	-
UN Number:	3277	3277	3277

Packing Group: II II -

Dangerous GoodsCode: - - 6.1(27B)

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T C

Risk Phrases:

R 23 Toxic by inhalation.

R 34 Causes burns.

Safety Phrases:

S 33 Take precautionary measures against static discharges.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 17341-93-4: No information available.

United Kingdom Occupational Exposure Limits

Canada

CAS# 17341-93-4 is listed on Canada's NDSL List.

CAS# 17341-93-4 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

US FEDERAL

TSCA

CAS# 17341-93-4 is listed on the TSCA inventory.

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