Safety Data Sheet



1. Identification of Substance / Mixture

Product Identifier

Product Name Chloromethyl chloroformate

Other Names

320123 **Product Code** 22128-62-7 CAS MFCD00077688 MDL

N/A **EINECS**

REACH Registration Number

Research and Development **Relevant Uses** No uses advised against. **Uses Advised Against**

Supplier Details

Fluorochem Limited Company

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+44(0)1457 860111 (08:00 - 17:30) **Emergency Telephone**

2. Hazards Identification

Met. Corr. 1 Classification Skin Corr. 1B

Acute Tox. 3

Signal Word Danger

Pictograms

GHS05

H290 Maybe corrosive to metals. Hazards

H314 Causes severe skin burns and eye damage.

H331 Toxic if inhaled.

P260 Do not breathe dust/fume/gas/mist/vapours/spray. **Precautions** P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear face protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor.

P311 Call a POISON CENTER/doctor.

P321 Specific treatment.

P363 Wash contaminated clothing before reuse. P390 Absorb spillage to prevent material damage.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P406 Store in a corrosion resistant/... container with a resistant inner liner.

Other Classification Hazards

3. Composition of Ingredients

SUBSTANCE

Composition CAS **Einecs** Hazards <= 100% Chloromethyl chloroformate 22128-62-7 N/A

H290 Met. Corr. 1 H314 Skin Corr. 1B H331 Acute Tox. 3

4. First Aid Measures

Eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing and seek immediate medical attention.

Ingestion If swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate

medical attention. Do not induce vomiting.

InhalationRemove person to fresh air and keep comfortable for breathing. Immediately call a poison centre or physician. If

breathing is irregular or stopped, administer artificial respiration.

After contact with skin or hair, wash immediately with plenty of water and soap. Remove contaminated clothing immediately. Immediately seek medical attention.

General Advice No additional advice.

Most Important Symptoms and

Effects

Skin Contact

Severe burns may occur.

Immediate First Aid Measures No additional first aid measures required.

5. Fire Fighting Measures

Suitable Fire Extinguishing Media Carbon dioxide, alcohol resistant foam or dry chemical powder.

Unsuitable Fire Extinguishing Media No known unsuitable media.

Special Hazards In combustion toxic fumes may form.

Advice for Fire Fighters As in any fire, wear self-contained breathing apparatus and full protective gear.

6. Accidental Release Measures

Personal Precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure

adequate ventilation. Keep personnel away from spill/leak.

Environmental PrecautionsDo not let product enter drains or waterways. Avoid discharge into the environment.

Containment - Methods and

Materials

Spill Response should only be carried out by trained or qualified personnel.

Referenced SDS Sections For personal protection see section 8. For disposal see section 13.

7. Handling and Storage

Personal Precautions

Safe Handling Wear appropriate personal protective equipment. Use only under a chemical fume hood ensuring adequate

ventilation, especially if dust, aerosol or fumes will be generated. Avoid contact with skin, eyes and clothing. For

precautions see section 2.2.

Protection Against Explosion and

ıre

Where possible, use anti static and spark proof equipment when handling.

General Occupational Hygiene Handle in accordance with good industrial hygiene and safety practice. Wash hands before and after use. Do not

eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use.

Conditions for Safe Storage and Incompatabilities

Managing Storage Risks Keep container tightly closed and upright. Store in a cool, dry and well-ventilated place.

Storage Controls Maybe corrosive to metals.

Maintaining Integrity Do not pack in metal.

Other Advice No other specific advice available.

Specific End Use(s)

No specific end uses are advised. The products supplied are for research purposes only.

8. Exposure Controls / Personal Protection

Control Parameters

Country	Info	Long	Long	Short	Short	Ceiling	Ceiling	Other	Remarks
		Term	Term	Term	Term	(ppm)	(mgm3)	Unit	
		(ppm)	(mgm3)	(ppm)	(mgm3)				

Engineering MeasuresUse only under a chemical fume hood ensuring adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are

close to the workstation location.

Face Protection Wear tightly fitting safety goggles which adhere to European standard EN 166. Ensure eye bath is to hand.

Hand ProectionHandle with impermeable gloves. Inspect gloves before use. Gloves must satisfy the specifications of EUDirective 89/686/EEC and the standard EN374 derived from it. Use proper glove removal technique (without

touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use

in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Wear appropriate protective clothing ensuring all skin is covered. Wear safety shoes that meet at least S1

Skin Protection

Wear appropriate protective clothing ensuring all skin is covered. Wear safety shoes that meet at least S1 standards. The type of protective equipment must be selected according to the concentration and amount of

the dangerous substance at the specific workplace.

Respiratory ProtectionProduct should be handled in a fume cupboard with adequate extraction. No respiratory equipment is needed

under normal use conditions.

Hygiene Protection Ensure hair or skin particles cannot enter the chemical container.

Environment Exposure Controls Avoid discharge into the environment, see section 6.2.

9. Physical and Chemical Properties

Liquid State Liquid Appearance

No data available. Odour No data available. **Odour Threshold** No data available. рΗ No data available. **Melting Point / Freezing Point** No data available. **Initial Boiling Point** 107°C to 108°C **Boiling Range**

95 °C Flash Point

No data available. **Evaporation Rate** No data available. **Flammability** No data available. Upper / Lower Flammability or

Explosion Limits

No data available.

No data available. **Vapour Pressure** No data available. **Vapour Density** 1.45g/cm3 at 20°C **Relative Density** No data available. Solubility No data available. **Partion Coefficient** No data available. **Auto Ignition Temperature** No data available. **Decomposition Temperature** No data available. Viscosity No data available. **Explosive Properties**

No additional information available Other information

10. Stability and Reactivity

Oxidising Properties

Maybe corrosive to metals. Reactivity

Stable under recommended storage conditions. Stability

None under normal storage conditions. **Possibility of Hazardous Reactions** Excess heat. Exposure to moisture. **Conditions To Avoid**

Metals. **Incompatible Materials**

No Data Available. **Hazardous Decomposition Products**

11. Toxicology Information

No Toxicology data available for this product. **Acute Toxicity**

Strong corrosive effect on skin and mucous membranes. Skin Corrosion / Irritation

Strong corrosive effect. Serious Eye Damage / Irritation

Toxic if inhaled. **Respiratory or Skin Sensitisation**

No Toxicology data available for this product. **Germ Cell Mutagenicity** No Toxicology data available for this product. Carcinogencity No Toxicology data available for this product. **Reproductive Toxicity** No Toxicology data available for this product. STOT-single Exposure No Toxicology data available for this product. STOT-repeated Exposure No Toxicology data available for this product. **Aspiration Hazard** No Toxicology data available for this product. **Additional Toxicology Information**

12. Ecological Information

No Ecological data available for this product. Toxicity No Ecological data available for this product. **Persistence and Degradability** No Ecological data available for this product. **Bio-Accumulative Potential** No Ecological data available for this product. **Mobility in Soil** No Ecological data available for this product. Results of PBT and vPvB assessment

Endocrine Disrupting Properties

Other Adverse Effects

No Ecological data available for this product.

No Ecological data available for this product.

13. Disposal Considerations

Disposal Operations

Ensure product is disposed of by licensed waste carriers.

Disposal of Packaging

Ensure INNER PACKAGING is disposed of by licensed waste carriers. Some OUTER PACKAGING MAY be

recyclable if not contaminated.

14. Transport Information

IATA UN Number	2745	ADR UN Number	2745	IMDG UN Number	2745
IATA Proper Shipping Name	CHLOROMETHYL CHLOROFORMATE	ADR Proper Shipping Name	CHLOROMETHYL CHLOROFORMATE	IMDG Proper Shipping Name	CHLOROMETHYL CHLOROFORMATE
IATA Packing Group	II	ADR Packing Group	II	IMDG Packing Group	II
IATA Hazard Class	6.1	ADR Hazard Class	6.1	IMDG Hazard Class	6.1
IATA Sub Class	8	ADR Sub Class	8	IMDG Sub Class	8
				IMDG Special Provisions	
				IMDG IBS Instructions	
				IMDG IBC Instructions	IBC02
				IMDG Tank Instructions	Т7
				IMDG Tank Provisions	TP2, TP13

15. Regulatory Information

Regulatory Information

As far as Fluorochem is aware, there are no further regulations controlling this product.

Chemical Safety Assessment

No Chemical Safety Assessment available for this product.

16. Other Information

Information Not Covered in Other Sections

ADR: Accord Europeen sur le transport des merchandises Dangereuses par Route(European Agreement

concerning the International Carriage of Dangerous Goods by road)

RID:Reglement International concernant le transport des merchandises dangereuses par chemin de fer

(Regulations concerning the International transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association ICAO:International Civil

Aviation Organization

ICAO-TI: Technical Instructions by the ICAO

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CAS:Chemical Abstracts Service

2.205

Date Modified

03/11/2022

Disclaimer

Revision

The product listed is for research and development purposes only and not for human or animal use. As such, in most cases, the toxicological, ecological and physicochemical properties have not been fully determined and the product should be treated with respect and always handled under suitable conditions by appropriately qualified personnel. The responsible party shall use this datasheet only in conjunction with other sources of information gathered by them, and should make an independent judgement of suitability, to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this material safety data sheet, or in combination with any other product or process, is the responsibility of the user. This SDS adheres to Regulation (EC) No 1907/2006.