

SAFETY DATA SHEET

Creation Date 22-Sep-2009

Revision Date 25-Dec-2021

Revision Number 5

1. Identification

Chloromethyl ethyl ether, stabilized

Product Name

. .

Cat No. :

AC355720000; AC355720250

CAS No Synonyms 3188-13-4 No information available

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

<u>Company</u>

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 2
Acute oral toxicity	Category 4
Acute dermal toxicity	Category 4
Acute Inhalation Toxicity - Vapors	Category 4
Serious Eye Damage/Eye Irritation	Category 2
Carcinogenicity	Category 2

Label Elements

Signal Word Danger

Hazard Statements

Highly flammable liquid and vapor Causes serious eye irritation

Suspected of causing cancer Harmful if swallowed, in contact with skin or if inhaled



None identified

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Chloromethyl ethyl ether	3188-13-4	<=100

4. First-aid measures		
General Advice	If symptoms persist, call a physician.	
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.	
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.	
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.	
Ingestion	Clean mouth with water and drink afterwards plenty of water.	
Most important symptoms and effects Notes to Physician	. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting Treat symptomatically	

5. Fire-fighting measures

Suitable Extinguishing Media	Carbon dioxide (CO $_2$). Dry chemical. Chemical foam. Water mist may be used to cool closed containers.
Unsuitable Extinguishing Media	No information available
Flash Point	19 °C / 66.2 °F
Method -	No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impac	t No information available

Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂). Hydrogen chloride gas.

Protective Equipment and Precautions for Firefighters

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

NFPA

Health 2	Flammability 3	Instability 0	Physical hazards N/A
	6. Accidental re	lease measures	
Personal Precautions	Use personal protective equipment as required. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.		
Environmental Precautions	Should not be released into the environment.		
Methods for Containment and Cle Up		ontainers for disposal. Soak up v ition. Use spark-proof tools and	

	7 Handling and storage	
Handling Storage.	 7. Handling and storage Ensure adequate ventilation. Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded Take precautionary measures against static discharges. Keep away from heat, sparks and flame. Keep container tightly closed in a dry and well-ventilated place. To maintain product quality: Keep refrigerated. Incompatible Materials. Strong oxidizing agents. Strong bases. 	
8. E	Exposure controls / personal protection	
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.	
Engineering Measures	Ensure 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.	
Personal Protective Equipment		
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.	
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.	
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.	
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.	

9. Physical and chemical properties

Physical State	Liquid
Appearance	Light yellow
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	No data available
Boiling Point/Range	82 °C / 179.6 °F
Flash Point	19 °C / 66.2 °F
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available
Specific Gravity	1.010
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available

Molecular FormulaC3 H7 CI OMolecular Weight94.54			
	10. Stability and reactivity		
Reactive Hazard	None known, based on information available		
Stability	Stable under normal conditions.		
Conditions to Avoid	Keep away from open flames, hot surfaces and sources of ignition. Incompatible products.		
Incompatible Materials	Strong oxidizing agents, Strong bases		
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), Hydrogen chloride gas			
Hazardous Polymerization	Hazardous polymerization does not occur.		
Hazardous Reactions	None under normal processing.		

11. Toxicological information

Acute Toxicity

Product Information	
Oral LD50	Category 4.
Dermal LD50	Category 4.
Vapor LC50	Category 4.
Component Information	
Toxicologically Synergistic	No information available
Products	
Delayed and immediate effects as	well as chronic effects from short and long-term exposure

Irritation Irritating to eyes

Sensitization

No information available

Carcinogenicity

Limited evidence of a carcinogenic effect.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Chloromethyl ethyl ether	3188-13-4	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	ailable			
Reproductive Effect	ts	No information ava	ailable.			
Developmental Effe	cts	No information available.				
Teratogenicity		No information available.				
STOT - single exposision STOT - repeated ex		None known None known				
Aspiration hazard		No information available				
Symptoms / effects delayed	s,both acute and	nd Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting			he, dizziness,	
Endocrine Disrupto	r Information	No information available				
Other Adverse Effe	cts	The toxicological properties have not been fully investigated.				

12. Ecological information				
Ecotoxicity Do not empty into drains.				
Persistence and Degradability	Persistence is unlikely based on information available.			
Bioaccumulation/ Accumulation	ccumulation/ Accumulation No information available.			
Mobility	Will likely be mobile in the environment due to its volatility.			
	13. Disposal considerations			
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.			

	14. Transport information
DOT	
UN-No	UN2354
Proper Shipping Name	CHLOROMETHYL ETHYL ETHER
Hazard Class	3
Subsidiary Hazard Class	6.1
Packing Group	II
TDG	
UN-No	UN2354
Proper Shipping Name	CHLOROMETHYL ETHYL ETHER
Hazard Class	3
Subsidiary Hazard Class	6.1
Packing Group	II
IATA	
UN-No	UN2354
Proper Shipping Name	CHLOROMETHYL ETHYL ETHER
Hazard Class	3
Subsidiary Hazard Class	6.1
Packing Group	II
IMDG/IMO	100054
UN-No	
Proper Shipping Name	CHLOROMETHYL ETHYL ETHER
Hazard Class	3
Subsidiary Hazard Class	6.1
Packing Group	
	15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Chloromethyl ethyl ether	3188-13-4	Х	ACTIVE	-

Legend: TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea

(KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Chloromethyl ethyl ether	3188-13-4	-	Х	221-687-5	Х	Х	Х	-	-	KE-05722

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313

Not applicable

SARA 311/312 Hazard Categories

See section 2 for more information

CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Chloromethyl ethyl ether	-	-	Х	-
Clean Air Act	Not applicable			
OSHA - Occupational Safety and Health Administration	Not applicable			
CERCLA	Not applicable			
California Proposition 65	This product does	not contain any Proposi	tion 65 chemicals.	
U.S. State Right-to-Know				

Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Chloromethyl ethyl ether	-	X	Х	-	-

U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	No information available

Authorisation/Restrictions according to EU REACH

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Chloromethyl ethyl ether	3188-13-4	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)

Chloromethyl ethyl ether	3188-13-4	Not applicable	Not applicable	Not applicable	Not applicable		
		16. Other inf	ormation				
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com						
Creation Date Revision Date Print Date Revision Summary	22-Sep-2009 25-Dec-2021 25-Dec-2021 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally						

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS