

#### Revision number: 3 Revision date: 10/06/2014

# 1. IDENTIFICATION

Product name: Product code: Ethyl 3-Chloropropionate C1274

For laboratory research purposes.

Not for drug or household use.

**TCI AMERICA** 

SAFETY DATA SHEET

Emergency telephone number:

TCI America (8:00am - 5:00pm) PST

Chemical Emergencies:

Transportation Emergencies:

+1-703-527-3887 (International) Responsible department:

Environmental Health Safety and Security

+1-503-286-7624

Chemtrec 24-Hour +1-800-424-9300 (U.S.A.)

**TCI** America

+1-503-286-7624

#### Product use: Restrictions on use:

Company: TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com

# 2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200:

Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 2A] Flammable Liquids [Category 3]

Signal word:

Warning!

Hazard Statement(s):

Causes serious eye irritation Causes skin irritation Flammable liquid and vapor

## Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

[Storage] [Disposal] Wash hands and face thoroughly after handling. Wear protective gloves. Wear eye and face protection. Keep away from heat, sparks, open flames or other hot surfaces. - No smoking. Keep container tightly closed. Ground or bond container and receiving equipment. Use explosion-proof electrical, ventilating, lighting, and equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves, eye protection and face protection.

If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. In case of fire: Use dry chemical, CO2, water spray or alcohol-resistant foam to extinguish.

Store in a well-ventilated place. Keep cool.

Dispose of contents and container in accordance with US EPA guidelines for the classification and determination of hazardous waste listed in 40 CFR 261.3. (See Section 13)

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# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture:	Substance				
Components:	Ethyl 3-Chloropropionate				
Percent:	>97.0%(GC)				
CAS Number:	623-71-2 136.58				
Molecular Weight:					
Chemical Formula:	C <sub>5</sub> H <sub>9</sub> ClO <sub>2</sub>				
Synonyms:	3-Chloropropionic Acid Ethyl Ester				
4. FIRST-AID MEASURES					
Inhalation:	Call a poison center or doctor if you feel unwell. Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and				
Skin contact:	take precautions to protect themselves. Call a poison center or doctor if you feel unwell. Remove and wash contaminated clothing before re-use. Remove and isolate contaminated clothing and shoes. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Treat symptomatically and supportively. Ensure that				
Eye contact:	medical personnel are aware of the material(s) involved and take precautions to protect themselves. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Contact with material may irritate or burn eyes. Call emergency medical service. Move victim to fresh air. Check for and remove any contact lenses. Keep victim warm and quiet. Treat symptomatically and supportively. Effects of exposure to substance may be delayed. Ensure that medical personnel are aware of the material(s)				
Ingestion:	involved and take precautions to protect themselves. Do not induce vomiting with out medical advice. Call a physician or Poison Control Center immediately. Do not use mouth-to-mouth method if victim ingested the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Loosen tight clothing such as a collar, tie, belt or waistband. If a person vomits place them in the recovery position so that vomit will not reenter the mouth and throat. Rinse mouth. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.				
Symptoms/effects:					
Acute: Delayed:	Redness. No data available				
Immediate medical attention:	If breathing has stopped, perform artificial respiration. Use first aid treatment according to the nature of the injury. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.				
5. FIRE-FIGHTING MEASURES					
Suitable extinguishing media:	Dry chemical, $CO_2$ , water spray, or alcohol-resistant foam. Consult with local fire authorities before attempting large scale fire fighting operations.				
Specific hazards arising from the che	emical				
Hazardous combustion products: Other specific hazards:	These products include: Carbon oxides Halogenated compounds WARNING: Highly toxic HCI gas is produced during combustion.				
have a very low flash point: Use of wate explosion hazard. Containers may explo <b>Special protective equipment for fire</b> - Wear positive pressure self-contained b	ght streams. Dike fire-control water for later disposal; do not scatter the material. CAUTION: All these products of spray when fighting fire may be inefficient. Do not use straight streams. Runoff to sewer may create fire or ode when heated. Move containers from fire area if you can do it without risk. <b>fighters:</b> preathing apparatus (SCBA). Structural fire fighters' protective clothing provides limited protection in fire situations uations. Wear chemical protective clothing which is specifically recommended by the manufacturer. It may				
6. ACCIDENTAL RELEASE MEAS	SURES				
Personal precautions:	Avoid contact with skin, eyes, and clothing. Keep people away from and upwind of spill/leak. Use spark- proof tools and explosion-proof equipment. Remove all sources of ignition. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing (Section 8). Warn				

Personal protective equipment:

containers or spilled material unless wearing appropriate protective clothing (Section 8). Warn unnecessary personnel to move away. Stop leak if you can do it without risk. Ensure adequate ventilation. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Wear eye protection (splash goggles) and face protection (full length face shield). Lab coat. Vapor respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves (nitrile). **TCI AMERICA** 

## 6. ACCIDENTAL RELEASE MEASURES

Emergency procedures: Isolate area until gas has dispersed. In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and excercise caution. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Warn personnel to move away. Prevent entry into sewers, basements or confined areas; dike if needed.

#### Methods and materials for containment and cleaning up:

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). All equipment used when handling the product must be grounded. Stop leak if without risk. Ventilate the area. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Use clean non-sparking tools to collect absorbed material.

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Water runoff can cause environmental damage. Prevent entry into sewers, basements or confined areas; dike if needed.

Precautions for safe handling:	Do NOT breath gas, fumes, vapor, or spray. Avoid contact with skin and eyes. Keep away from heat and
	sources of ignition. Use explosion-proof equipment. Use only non-sparking hand tool when handling this product. Ground all equipment containing material. Take measures to prevent build up of electrostatic
	charge. Good general ventilation should be sufficient to control airborne levels. Keep container dry. Handl and open container with care. Wear suitable protective clothing, gloves and eye/face protection. When using do not eat, drink, or smoke. Keep away from sources of ignition.
Conditions for safe storage:	Keep containers tightly closed in a cool, well-ventilated place. Keep away from sources of ignition. Store and use away from heat, sparks, open flame, or any other ignition source. Keep away from incompatibles. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Avoid prolonged storage periods.
Storage incompatibilities:	Combustible substances, Store away from oxidizing agents

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:

No data available

# Appropriate engineering controls:

Good general ventilation should be sufficient to control airborne levels. Ventilation is normally required when handling or using this product. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substance. Follow safe industrial engineering/laboratory practices when handling any chemical.

#### Personal protective equipment

Respiratory protection:Vapor respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent.Hand protection:Wear protective gloves.Eye protection:Splash goggles.Skin and body protection:Lab coat.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Color: Odor: Odor threshold:	Liquid Clear Colorless - Almost colorless No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic Viscosity:	No data available 162°C (324°F) No data available 1.10 No data available	pH: Vapor pressure: Vapor density: Dynamic Viscosity:	No data available No data available No data available No data available
Partition coefficient: n-octanol/water (log Pow)	No data available	Evaporation rate: (Butyl Acetate = 1)	No data available
Flash point: Flammability (solid, gas):	54°C (129°F) No data available	Autoignition tempe Flammability or exp Lower: Upper:	

Solubility(ies):

Water: Insoluble Soluble: Many organic solvents

# 10. STABILITY AND REACTIVITY

Reactivity: Chemical Stability: Possibility of Hazardous Reactions: Conditions to avoid: Incompatible materials: Hazardous Decomposition Products:		nmended storage conditions. ammable/explosive vapor-air eat and light.		
11. TOXICOLOGICAL INFORMATION	I			
Acute Toxicity: No data available				
Skin corrosion/irritation: No data available				
Serious eye damage/irritation: No data available				
<b>Respiratory or skin sensitization:</b> No data available				
Germ cell mutagenicity: No data available				
Carcinogenicity:				
No data available				
IARC: No data available	NTP:	No data available	OSHA:	No data available
Reproductive toxicity: No data available				
Routes of Exposure: Symptoms related to exposure:	Inhalation, Eye co	ntact, Ingestion, Skin contact.		
Skin contact may result in inflammation; cha or dry skin. Eye contact may result in rednes Potential Health Effects:		, scaling, reddening, or occas	sionally blistering. Skin	contact may result in redness, pain
Skin and eye contact may result in irritation. Target organ(s):	No data available			
12. ECOLOGICAL INFORMATION				
Ecotoxicity Fish:	No data available			
Crustacea: Algae:	No data available No data available			
Persistence and degradability: Bioaccumulative potential (BCF): Mobillity in soil:	No data available No data available No data available			

 Bioaccumulative potential (BCF):
 No data available

 Mobility in soil:
 No data available

 Partition coefficient:
 No data available

 n-octanol/water (log Pow)
 Soil adsorption (Koc):

 Soil adsorption (Koc):
 No data available

 Henry's Law:
 No data available

 constant (PaM³/mol)
 No data available

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13. DISPOSAL (	CONSIDERATIONS				]
Disposal of product: Recycle to pr rules and reg chemical inci assistance br regulatory co Waste are lis water ways, of Disposal of container: Dispose of as		rules and regula chemical inciner assistance but d regulatory comp Waste are listed water ways, or th Dispose of as ur	tions. You may be able to diss ator equipped with an afterbur oes not replace these laws, nu liance according to the law. U in 40 CFR Parts 261. The pro- ne soil. nused product. Do not re-use of	tor's responsibility to comply with Fe solve or mix material with a combust mer and scrubber system. This sect or does compliance in accordance v S EPA guidelines for Identification a oduct should not be allowed to enter empty containers. s when disposing of the substance.	tible solvent and burn in a ion is intended to provide with this section ensure and Listing of Hazardous
14. TRANSPOR	T INFORMATION				
DOT (US) UN number: UN3272	<b>Proper Shipping Na</b> Esters, n.o.s.	ime:	<b>Class or Division:</b> 3 Flammable liquid	Packing Group: III	
IATA UN number: UN3272	<b>Proper Shipping Na</b> Esters, n.o.s.	ime:	<b>Class or Division:</b> 3 Flammable liquid	Packing Group:	
IMDG UN number: UN3272	<b>Proper Shipping Na</b> Esters, n.o.s.	ime:	<b>Class or Division:</b> 3 Flammable liquid	Packing Group:	
EmS number:		F-E, S-D			
This product is ON	us substance and Repo	ces Control Act (TS	SCA) inventory.		
State Regulations	=				
State Right-to-Kno Massachus New Jerse Pennsylva California Proposi	setts y nia	Not Listed Not Listed Not Listed Not Listed			
Other Information			HMIS Classification:		
Health: Flammability: Instability:	1 2 0		Health: Flammability: Physical:	1 2 0	
International Inver	ntories				
WHMIS hazard cla EC-No:	ISS:	B2: Flammable I D2B: Materials c 210-809-2	iquid. ausing other toxic effects. (To	xic)	

# 16. OTHER INFORMATION

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## 16. OTHER INFORMATION

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective gogles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.