

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations SDS ID: 2123501

Issue date: 9/22/2023 Version: 1.0

## **SECTION 1: Identification**

### 1.1. Identification

Product form : Substance
Substance name : Ethyl chloroacetate
Chemical name : ethyl chloroacetate

 CAS-No.
 : 105-39-5

 Product code
 : 2123-5-01

 Formula
 : C4H7CIO2

 Other means of identification
 : MFCD00000932

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Laboratory chemicals

Manufacture of substances

Scientific research and development

## 1.3. Supplier

SynQuest Laboratories, Inc. Inc.

P.O. Box 309

Alachua, FL, Alachua, 32615 United States of America

T (386) 462-0788 - F (386) 462-7097

info@synquestlabs.com - www.synquestlabs.com

## 1.4. Emergency telephone number

Emergency number : (844) 523-4086 (3E Company - Account 10069)

## **SECTION 2: Hazard(s) identification**

### 2.1. Classification of the substance or mixture

#### **GHS US classification**

Flammable liquids Category 3	H226	Flammable liquid and vapor
Acute toxicity (oral) Category 3	H301	Toxic if swallowed
Acute toxicity (dermal) Category 3	H311	Toxic in contact with skin
Acute toxicity (inhalation) Category 3	H331	Toxic if inhaled
Skin corrosion/irritation Category 1B	H314	Causes severe skin burns and eye damage

Serious eye damage/eye irritation Category 1 H318 Causes serious eye damage

Carcinogenicity Category 1A H350 May cause cancer

Specific target organ toxicity – Single exposure, Category 3, H335 May cause respiratory irritation

Respiratory tract irritation

Hazardous to the aquatic environment – Acute Hazard Category 1 H400 Very toxic to aquatic life

Full text of H statements : see section 16

## 2.2. GHS Label elements, including precautionary statements

#### **GHS US labeling**

Hazard pictograms (GHS US)













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Signal word (GHS US)

: Danger

Hazard statements (GHS US)

: H226 - Flammable liquid and vapor

H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage H335 - May cause respiratory irritation

H350 - May cause cancer H400 - Very toxic to aquatic life

Precautionary statements (GHS US)

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.
P233 - Keep container tightly closed.

P240 - Ground/Bond container and receiving equipment.

P241 - Use explosion-proof electrical/ventilating/lighting equipment

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge.

P260 - Do not breathe fumes, mist, spray, vapors.

P264 - Wash skin thoroughly after handling

P270 - Do not eat, drink or smoke when using this product.

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

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 - If swallowed: Immediately call a poison center or doctor. P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.

P302+P352 - If on skin: Wash with plenty of soap and water

 ${\tt P303+P361+P353-If\ on\ skin\ (or\ hair):\ Take\ off\ immediately\ all\ contaminated\ clothing.\ Rinse}$ 

skin with water/shower.

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.

P308+P313 - If exposed or concerned: Get medical advice/attention.

P310 - Immediately call a POISON CENTER or doctor/physician P311 - Call a POISON CENTER or doctor/physician

P321 - Specific treatment (see supplemental first aid instructions on this label)

P322 - Specific treatment (see supplemental first aid instruction on this label)

P330 - Rinse mouth.

P361+P364 - Take off immediately all contaminated clothing and wash it before reuse.

P363 - Wash contaminated clothing before reuse.

P370+P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

P391 - Collect spillage.

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

P403+P235 - Store in a well-ventilated place. Keep cool.

P405 - Store locked up.

P501 - Dispose of contents/container to an approved waste disposal plant

## 2.3. Other hazards which do not result in classification

Other hazards which do not result in classification

: Lachrymator. Reacts violently with water. Contact with water liberates toxic gas. Heating may cause violent combustion or explosion.

### 2.4. Unknown acute toxicity (GHS US)

No additional information available

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## **SECTION 3: Composition/Information on ingredients**

#### 3.1. Substances

Substance type : Mono-constituent

Name	Product identifier	%	GHS US classification
Ethyl chloroacetate (Main constituent)	CAS-No.: 105-39-5	≤ 100	Flam. Liq. 3, H226 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Carc. 1A, H350 STOT SE 3, H335 Aquatic Acute 1, H400

Full text of hazard classes and H-statements: see section 16

### 3.2. Mixtures

Not applicable

## **SECTION 4: First-aid measures**

### 4.1. Description of first aid measures

First-aid measures general :	In case of accident or if you feel unwell, seek medical advice immediately (show the label where
	possible). Move the affected personnel away from the contaminated area.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention.

First-aid measures after skin contact : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Get immediate medical advice/attention.

First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

First-aid measures after ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

Symptoms/effects after inhalation : Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.

## 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## **SECTION 5: Fire-fighting measures**

## 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Dry powder. Use extinguishing media appropriate for surrounding fire.

#### 5.2. Specific hazards arising from the chemical

Fire hazard : Thermal decomposition generates: Carbon oxides. Hydrogen chloride.

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Explosion hazard

: Risk of explosion if heated under confinement. Use water spray or fog for cooling exposed containers. May form flammable/explosive vapor-air mixture.

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions

: In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.

Protection during firefighting

: Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures

: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray.

#### 6.1.1. For non-emergency personnel

**Emergency procedures** 

: Only qualified personnel equipped with suitable protective equipment may intervene.

#### 6.1.2. For emergency responders

Protective equipment

: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

**Emergency procedures** 

Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level. Consider the risk of potentially explosive atmospheres. Eliminate every possible source of ignition.

## 6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

## 6.3. Methods and material for containment and cleaning up

For containment

: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.

Methods for cleaning up

: Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosionproof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into

appropriate container for disposal. Ventilate area.

Other information : For disposal of solid materials or residues refer to section 13: "Disposal considerations".

#### 6.4. Reference to other sections

No additional information available

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Additional hazards when processed

Precautions for safe handling

- : Handle empty containers with care because residual vapors are flammable.
- Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes. Keep away from ignition sources (including static discharges). Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools.

Hygiene measures

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

## 7.2. Conditions for safe storage, including any incompatibilities

Technical measures

: Comply with applicable regulations.

Keep contents under inert gas.

Keep container closed when not in use. Keep away from ignition sources. Moisture sensitive.

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Storage conditions

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Incompatible materials : Refer to Section 10 on Incompatible Materials. Storage area : Store in dry, cool, well-ventilated area.

### **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

## Ethyl chloroacetate (105-39-5)

No additional information available

## 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers

should be available in the immediate vicinity of any potential exposure.

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

protective gloves. 29 CFR 1910.138: Hand Protection

#### Eye protection:

Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection

### Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection

# Personal protective equipment symbol(s):









### Other information:

Safety shoes. 29 CFR 1910.136: Foot Protection.

## **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Colorless, mobile liquid.

Color : Colorless

Odor : extremely irritating Pungent Fruity Lachrymator

Odor threshold : No data available pH : No data available

Melting point : -26 °C

Freezing point : No data available

Boiling point : 144 - 146 °C (@ 760 mm Hg)

Flash point : 54 °C

Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : No data available Vapor pressure : 4.5 hPa (at 20 °C)

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Relative vapor density at 20 °C : No data available
Relative density : No data available
Density : 1.1498 g/ml (@ 20 °C)

Molecular mass : 122.55 g/mol

Solubility : Water: 20 g/l (at 19.8 °C)

Partition coefficient n-octanol/water (Log Pow) : 1.13 Auto-ignition temperature : 452 °C

Decomposition temperature : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available Explosion limits : No data available Explosive properties : No data available Oxidizing properties : No data available

### 9.2. Other information

Refractive index : 1.4227 (@ 20 °C)

## **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

## 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Keep away from heat, sparks and flame.

### 10.5. Incompatible materials

Water. Bases. Alkali metals. Cyanides. Oxidizing agents.

# 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity (oral) : Toxic if swallowed.

Acute toxicity (dermal) : Toxic in contact with skin.

Acute toxicity (inhalation) : Toxic if inhaled.

Ethyl chloroacetate (105-39-5)	
LD50 oral rat	180 mg/kg (Source: JAPAN_GHS)
LD50 dermal rabbit	230 mg/kg (Source: NLM_CIP)
LC50 Inhalation - Rat 3.33 ml/m³ (Exposure time: 4 h Source: ECHA_API)	
ATE US (oral)	180 mg/kg body weight

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Ethyl chloroacetate (105-39-5)		
ATE US (dermal) 230 mg/kg body weight		
ATE US (gases)	700 ppmV/4h	
ATE US (vapors) 3 mg/l/4h		
ATE US (dust, mist) 0.5 mg/l/4h		

Skin corrosion/irritation : Causes severe skin burns.
Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : May cause cancer.
Reproductive toxicity : Not classified

STOT-single exposure : May cause respiratory irritation.

STOT-repeated exposure : Not classified
Aspiration hazard : Not classified
Viscosity, kinematic : No data available

Symptoms/effects : The most important known symptoms and effects are described in the labelling (see section 2.2)

and/or in section 11.

Symptoms/effects after inhalation : Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough,

shortness of breath, headache, nausea.

## **SECTION 12: Ecological information**

### 12.1. Toxicity

Ethyl chloroacetate (105-39-5)		
LC50 - Fish [1] 1.48 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static] Source: EPA)		
EC50 - Crustacea [1]	1.1 – 2.4 mg/l (Exposure time: 48 h - Species: Daphnia magna)	

## 12.2. Persistence and degradability

No additional information available

## 12.3. Bioaccumulative potential

Ethyl chloroacetate (105-39-5)	
Partition coefficient n-octanol/water (Log Pow)	1.13

## 12.4. Mobility in soil

No additional information available

## 12.5. Other adverse effects

No additional information available

## **SECTION 13: Disposal considerations**

## 13.1. Disposal methods

Additional information

Waste treatment methods

Product/Packaging disposal recommendations

ons

: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.

Dispose of contents/container in accordance with licensed collector's sorting instructions.

: Recycle the material as far as possible.

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## **SECTION 14: Transport information**

## **14.1. UN** number

DOT NA NO : UN1181 UN-No. (TDG) : UN1181 UN-No. (IMDG) : 1181 UN-No. (IATA) : 1181

## 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Ethyl chloroacetate

Proper Shipping Name (TDG) : ETHYL CHLOROACETATE

Proper Shipping Name (IMDG) : ETHYL CHLOROACETATE

Proper Shipping Name (IATA) : Ethyl chloroacetate

## 14.3. Transport hazard class(es)

#### DOT

Transport hazard class(es) (DOT) : 6.1 (3) Hazard labels (DOT) : 6.1, 3



#### **TDG**

Transport hazard class(es) (TDG) : 6.1 (3) Hazard labels (TDG) : 6.1, 3



#### **IMDG**

Transport hazard class(es) (IMDG) : 6.1 (3) Hazard labels (IMDG) : 6.1, 3



### IATA

Transport hazard class(es) (IATA) : 6.1 (3) Hazard labels (IATA) : 6.1, 3



## 14.4. Packing group

Packing group (DOT) : II
Packing group (TDG) : II
Packing group (IMDG) : II
Packing group (IATA) : II

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### 14.5. Environmental hazards

Dangerous for the environment : Yes
Marine pollutant : Yes



Other information : No supplementary information available.

## 14.6. Special precautions for user

**DOT** 

UN-No.(DOT) : UN1181

DOT Special Provisions (49 CFR 172.102) : IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite

(31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110

kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.

T7 - 4 178.274(d)(2) Normal...... 178.275(d)(3)

TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image)

Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59

F) and 50 C (122 F), respectively.

DOT Packaging Exceptions (49 CFR 173.xxx) : 153
DOT Packaging Non Bulk (49 CFR 173.xxx) : 202
DOT Packaging Bulk (49 CFR 173.xxx) : 243
DOT Quantity Limitations Passenger aircraft/rail (49 : 5 L

CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

**TDG** 

UN-No. (TDG) : UN1181
ERAP Index : 1 000
Explosive Limit and Limited Quantity Index : 0.1 L
Excepted quantities (TDG) : E4
Passenger Carrying Road Vehicle or Passenger : 5 L

Carrying Railway Vehicle Index

Emergency Response Guide (ERG) Number : 155

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#### **IMDG**

Limited quantities (IMDG) : 100 ml
Excepted quantities (IMDG) : E4
Packing instructions (IMDG) : P001
IBC packing instructions (IMDG) : IBC02
Tank instructions (IMDG) : T7
Tank special provisions (IMDG) : TP2

EmS-No. (Fire) : F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS

EmS-No. (Spillage) : S-D - SPILLAGE SCHEDULE Delta - FLAMMABLE LIQUIDS

Stowage category (IMDG) : A Flash point (IMDG) : 54°C c.c.

Properties and observations (IMDG) : Colourless, flammable liquid with a pungent and fruity odour. Flashpoint: 54°C c.c. Immiscible

with water. When heated, evolves toxic and corrosive fumes. Toxic if swallowed, by skin contact

or by inhalation.

#### **IATA**

PCA Excepted quantities (IATA) : E4 PCA Limited quantities (IATA) : Y641 PCA limited quantity max net quantity (IATA) : 1L PCA packing instructions (IATA) : 654 PCA max net quantity (IATA) : 5L CAO packing instructions (IATA) : 662 CAO max net quantity (IATA) 60L ERG code (IATA) 6F

## 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

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### 15.2. International regulations

### CANADA

#### Ethyl chloroacetate (105-39-5)

Listed on the Canadian NDSL (Non-Domestic Substances List)

#### **EU-Regulations**

#### Ethyl chloroacetate (105-39-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### **National regulations**

## Ethyl chloroacetate (105-39-5)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the Japanese ENCS (Existing New Chemical Substances) inventory

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Japanese Poisonous and Deleterious Substances Control Law

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on the NCI (Vietnam - National Chemical Inventory)

#### 15.3. US State regulations

Ethyl chloroacetate (105-39-5)	
	U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List U.S Massachusetts - Right To Know List

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## **SECTION 16: Other information**

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Full text of H-phrases	
H226	Flammable liquid and vapor
H301	Toxic if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H331	Toxic if inhaled
H335	May cause respiratory irritation
H350	May cause cancer
H400	Very toxic to aquatic life

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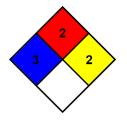
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NFPA health hazard	:	3 - Materials that, under emergency conditions, can cause serious or
		permanent injury.

NFPA fire hazard : 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.

: 2 - Materials that readily undergo violent chemical change at elevated

temperatures and pressures.



### Hazard Rating

Physical

NFPA reactivity

: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is Health

Flammability 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F

but below 200 F. (Classes II IIIA)

: 2 Moderate Hazard - Materials that are unstable and may undergo violent chemical changes at normal temperature and pressure with low risk for explosion. Materials may react violently with

water or form peroxides upon exposure to air.

Safety Data Sheet (SDS), USA

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.