



## SAFETY DATA SHEET

Issue Date 20-Nov-2025 Revision Number 2.07

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product identifier** 

Product Name Ethyl 4-Chloroacetoacetate

Other means of identification

**Product Code(s)** 053-03672

Recommended use of the chemical and restrictions on use
Recommended Use For research use only.

Uses advised against Seek expert judgment when using for purposes other than those recommended.

Details of the supplier of the safety data sheet

Manufacturer Address Distributor

FUJIFILM Wako Pure Chemical Corporation FUJIFILM Irvine Scientific

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Tel: +81-6-6203-3741 Fax: +81-6-6201-5964

## 2. HAZARDS IDENTIFICATION

#### **GHS** classification

Classification of the substance or mixture

Acute toxicity - Oral Category 3
Acute toxicity - Dermal Category 2
Skin corrosion/irritation Category 1
Skin sensitization Category 1
Chronic aquatic toxicity Category 2





#### **Hazard statements**

H314 - Causes severe skin burns and eye damage

H301 - Toxic if swallowed

H310 - Fatal in contact with skin

H317 - May cause an allergic skin reaction

H411 - Toxic to aquatic life with long lasting effects

## **Precautionary statements-(Prevention)**

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not get in eyes, on skin, or on clothing Wear protective gloves/protective clothing/eye protection/face protection Do not breathe dust/fume/gas/mist/vapors/spray Contaminated work clothing should not be allowed out of the workplace Avoid release to the environment

#### Precautionary statements-(Response)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Immediately call a POISON CENTER or doctor/physician Wash contaminated clothing before reuse IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower If skin irritation or rash occurs: Get medical advice/attention

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth Do NOT induce vomiting Collect spillage

## Precautionary statements-(Storage)

Store locked up

## Precautionary statements-(Disposal)

Dispose of contents/container to an approved waste disposal plant

**Others** 

Other hazards Not available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

Formula CICH2COCH2COOC2H5

	Chemical Name	Molecular weight	CAS RN	Weight-%
ſ	Ethyl 4-chloroacetoacetate	164.59	638-07-3	90.0

Impurities and/or Additives: Not applicable

## 4. FIRST AID MEASURES

First aid measures

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper

eyelids. Consult a physician.

**Skin contact** Wash skin with soap and water.

**Inhalation** Remove to fresh air.

**Ingestion** Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician

or poison control center immediately. Do not induce vomiting without medical advice.

Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

Indication of any immediate medical attention and special treatment needed

## 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing media

Water spray (fog). Carbon dioxide (CO2). Foam. Extinguishing powder. Sand.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

**Explosion data** 

Sensitivity to Mechanical none.

Impact

Sensitivity to Static Discharge none.

#### 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.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions, protective equipment and emergency

Ensure adequate ventilation, especially in confined areas.

procedures

**Environmental precautions** 

**Environmental precautions** See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods and material for containment and cleaning up

Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be

sealed.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

### 7. HANDLING AND STORAGE

Precautions for safe handling

Technical measures Keep away from heat/sparks/open flames/hot surfaces. - No smoking.Use with local

exhaust ventilation.

Protective measures Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage conditions Keep container protect from light, store

in well-ventilated place at room temperature (preferably cool). Keep container tightly

closed.

Packaging materials Glass.

Incompatible materials Strong oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Engineering controls**

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and handand eye-wash facility. And display their position clearly.

Exposure limits Not applicable

Personal protective equipment

Respiratory protection Protective mask

Hand protection chemical protective gloves (JIS T 8116)

**Eye protection** protective eyeglasses or chemical safety goggles (JIS T 8147)

Skin and body protection Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form** 

Color Colorless - brown

Turbidity clear Appearance liquid

Odor characteristic odor pH characteristic odor no data available

Melting point/freezing point

-8 °C

Boiling point, initial boiling point and boiling range

210 °C

Flash point

96 °C

**Evaporation rate:**no data available
Flammability (solid, gas):
no data available

Upper/lower flammability or

explosive limits

Upper:
Lower:
no data available
no data available
vapour pressure
vapour density
no data available
no data available
no data available
1.200 - 1.215 g/mL

**Solubilities** water, Ethanol and acetone: soluble.

n-Octanol/water partition coefficient:(log Pow)no data availableAuto-ignition temperature:no data availableDecomposition temperature:no data availableViscosity (coefficient of viscosity)no data availableDynamic viscosityno data availableParticle characteristicsno data available

## 10. STABILITY AND REACTIVITY

#### Stability

**Chemical stability Reactivity**May be altered by light.
no data available

Hazardous reactions

None under normal processing

**Conditions to avoid** 

Extremes of temperature and direct sunlight, Heat, flames and sparks, static electricity, spark

Incompatible materials

Strong oxidizing agents

**Hazardous decomposition products** 

Carbon monooxide (CO), Carbon dioxide (CO2), Halides

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity** 

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethyl 4-chloroacetoacetate	200 mg/kg (Rat)	N/A	N/A

Skin irritation/corrosion no data available Serious eye damage/ irritation no data available Respiratory or skin sensitization no data available Reproductive cell mutagenicity no data available Carcinogenicity no data available Reproductive toxicity no data available STOT-single exposure no data available STOT-repeated exposure no data available no data available **Aspiration hazard** 

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

no data available

Persistence and degradability

No information available

**Bioaccumulative potential** 

No information available

**Mobility** 

no data available

Mobility in soilNo information availableOther DataNo information available

## 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

**Precautionary including method of** Disposal should be in accordance with applicable regional, national and local laws and **disposing contaminated packaging** regulations.

## 14. TRANSPORT INFORMATION

DOT

UN/ID No UN2810

**Proper shipping name:** Toxic liquid, organic, n.o.s. (Ethyl 4-chloroacetoacetate)

UN classfication 6.1

Subsidiary hazard class

Packing group II
Marine pollutant Yes

<u>IATA</u>

UN/ID No UN2810

**Proper shipping name:** Toxic liquid, organic, n.o.s. (Ethyl 4-chloroacetoacetate)

UN classfication 6.1

Subsidiary hazard class

Packing group

Environmentally Hazardous Yes

**Substance** 

**IMDG** 

UN/ID No UN2810

**Proper shipping name:** Toxic liquid, organic, n.o.s. (Ethyl 4-chloroacetoacetate)

UN classfication

Subsidiary hazard class

## 15. REGULATORY INFORMATION

#### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS RN	Weight-%	SARA 313 - Threshold Values %
Ethyl 4-chloroacetoacetate - 638-07-3	638-07-3	90.0	N/A
SARA 311/312 Hazard Categories			
Acute health hazard	No		
Chronic Health Hazard	No		

No

No

No

#### **CWA (Clean Water Act)**

**Reactive Hazard** 

Sudden release of pressure hazard

Fire hazard

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

## **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

#### **US State Regulations**

#### **California Proposition 65**

This product does not contain any chemicals regulated by Proposition 65

#### **U.S. State Right-to-Know Regulations**

This product does not contain any substances regulated by state right-to-know regulations

#### U.S. EPA Label Information

**EPA Pesticide Registration Number**Not applicable

## **16. OTHER INFORMATION**

Issue Date Revision Note 20-Nov-2025

No information available

## 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 Safety Data Sheet**