



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 25-Mar-2024

Revision Number 2.05

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

| Product Name | Ethyl Chloroglyoxylate                  |
|--------------|---|
| Product Code | 053-05811                               |
| Supplier     | FUJIFILM Wako Pure Chemical Corporation |

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**Recommended uses** For research use only

**Restrictions on use**Seek expert judgment when using for purposes other than those recommended.

## **Section 2: HAZARDS IDENTIFICATION**

**GHS** classification

Classification of the substance or mixture

Flammable liquids
Corrosive to metals
Skin corrosion/irritation
Serious eye damage/eye irritation
Category 1
Specific target organ toxicity (single exposure)
Category 3
Category 2
Category 1
Category 3

Category 3 Respiratory irritation





### **Hazard statements**

H226 - Flammable liquid and vapour

H290 - May be corrosive to metals

H315 - Causes skin irritation

H318 - Causes serious eye damage

H335 - May cause respiratory irritation

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

- · Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection
- Avoid breathing dust/fume/gas/mist/vapors/spray
- · Use only outdoors or in a well-ventilated area
- · Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- Keep container tightly closed
- Ground/bond container and receiving equipment
- Use explosion-proof electrical/ ventilating / lighting / equipment
- Use only non-sparking tools
- Take precautionary measures against static discharge

- · Keep only in original container
- Keep cool

## 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
- If skin irritation occurs: Get medical advice/attention
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- Wash contaminated clothing before reuse
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- Call a POISON CENTER or doctor/physician if you feel unwell
- In case of fire: Use suitable extinguishing media for extinction
- Absorb spillage to prevent material damage

#### Precautionary statements-(Storage)

- Store in a well-ventilated place. Keep container tightly closed
- · Store locked up
- Store in corrosive resistant/ container with a resistant inner liner

#### Precautionary statements-(Disposal)

• Dispose of contents/container to an approved waste disposal plant

**Others** 

Other hazards Not available

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

Formula COCICOOC2H5

| Chemical Name          | Weight-% | Molecular weight | ENCS | ISHL No.            | CAS RN    |
|------------------------|----------|------------------|------|---------------------|-----------|
| Ethyl chloroglyoxylate | 98.0     | 136.53           | N/A  | 2-(6)-191,2-(6)-707 | 4755-77-5 |

Note on ISHL No.:

\* in the table means announced chemical substances.

## **Section 4: FIRST AID MEASURES**

#### Inhalation

Remove to fresh air. If symptoms persist, call a physician.

#### Skin contact

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

### Eye contact

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

#### 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.

### **Protection of first-aiders**

Use personal protective equipment as required.

## **Section 5: FIRE FIGHTING MEASURES**

### Suitable extinguishing media

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

## Unsuitable extinguishing media

No information available

Specific hazards arising from the chemical product

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Vapors may form explosive mixtures with air

## Special extinguishing method

No information available

### Special protective actions for fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

### Section 6: ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

### **Environmental precautions**

To be careful not discharged to the environment without being properly handled waste water contaminated.

### Methods and materials for contaminent and methods and materials for cleaning up

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

#### Recoverly, neutralization

No information available

#### Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

### Section 7: HANDLING AND STORAGE

#### Handling

#### **Technical measures**

Highly flammable. Avoid contact with high temperature objects, spark, and strong oxidizing agents. Use with local exhaust ventilation.

#### **Precautions**

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging. Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle. In places other than those specified, should not be smoking or eating and drinking. Should not be brought contaminated protective equipment and gloves to rest stops. Deny unnecessary entry of non-emergency personnel to the handling area.

#### Safety handling precautions

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

### Storage

Safe storage conditions

Storage conditions Keep container protect from light, store

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

closed. Packed with an inert gas.

Safe packaging material Glass

Incompatible substances Strong oxidizing agents

## Section 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**This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

### Personal protective equipment

**Respiratory protection** gas mask for organic gas (JIS T 8152) **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.

If this product is classified as "Chemical Substances Hazardous to Skin, etc.", use appropriate protective equipment to

them.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

**Form** 

Color Colorless - yellow

Turbidity clear Appearance liquid

Odor Pungent odor, Lachrymator

Melting point/freezing point -39 °C
Boiling point, initial boiling point and boiling range 135 °C

Flammability Flammable liquid and vapor

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

Upper/lower flammability or explosive limits

Upper:no data availableLower:no data available

Flash point 41 °C

Auto-ignition temperature:no data availableDecomposition temperature:no data availablepHno data availableViscosity (coefficient of viscosity)no data availableDynamic viscosityno data available

Solubilities acetone: Very soluble. water: decomposes.

n-Octanol/water partition coefficient:(log Pow)
No data available
no data available
no data available
1.224 - 1.230 g/mL
Vapour density
No data available
no data available
no data available
no data available

## **Section 10: STABILITY AND REACTIVITY**

Stability

**Reactivity** no data available

Chemical stability Stable under recommended storage conditions.

Hazardous reactions

None under normal processing

Conditions to avoid

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

Incompatible materials
Strong oxidizing agents

Hazardous decomposition products

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

## Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity no data available

Skin irritation/corrosionno data availableSerious eye damage/ irritationno data availableRespiratory or skin sensitizationno data availableReproductive cell mutagenicityno data availableCarcinogenicityno data available

Reproductive toxicityno data availableSTOT-single exposureno data availableSTOT-repeated exposureno data availableAspiration hazardno data available

## **Section 12: ECOLOGICAL INFORMATION**

**Ecotoxicity** no data available

Other data no data available

Persistence and degradability
Bioaccumulative potential
Mobility in soil
Hazard to the ozone layer

No information available
No information available
No information available

## **Section 13: DISPOSAL CONSIDERATIONS**

#### Waste from residues

Disposal should be in accordance with applicable regional, national and local laws and regulations.

### Contaminated container and contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

### **Section 14: TRANSPORT INFORMATION**

ADR/RID

UN number UN1993

**Proper shipping name:** Flammable liquid, n.o.s. (Ethyl Chloroglyoxylate)

UN classfication Subsidiary hazard class

Packing group III

Marine pollutant Not applicable

**IMDG** 

**UN number** UN1993

Proper shipping name: Flammable liquid, n.o.s. (Ethyl Chloroglyoxylate)

UN classfication

Subsidiary hazard class

Packing group

Marine pollutant (Sea) Not applicable

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

**IATA** 

UN number UN1993

**Proper shipping name:** Flammable liquid, n.o.s. (Ethyl Chloroglyoxylate)

UN classfication

Subsidiary hazard class

Packing group

Environmentally Hazardous Not a

Substance

Not applicable

### Section 15: REGULATORY INFORMATION

Japanese regulations

**Fire Service Act** Category IV, Class II petroleums, dangerous grade 3

**Poisonous and Deleterious** 

Not applicable **Substances Control Law** 

Industrial Safety and Health Act Dangerous Substances - Flammable Substance (Enforcement Order Attached Table 1

Item 4) 【2024.4.1~】Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)

Industrial Safety and Health Act (

2024~)

Regulations for the carriage and storage of dangerous

goods in ship

**Civil Aeronautics Law** 

Flammable Liquids (Ordinance Art.3, Ministry of Transportation Ordinance Regarding

Transport by Ship and Storage, Attached Table 1)

Flammable Liquids (Ordinance Art.194, MITL Nortification for Air Transportation of

Explosives etc., Attached Table 1)

Pollutant Release and Transfer Not applicable

Register Law (2023.4.1-)

**Export Trade Control Order** Not applicable

## **Section 16: OTHER INFORMATION**

Key literature references and sources for data etc.

NITE: National Institute of Technology and Evaluation (JAPAN)

http://www.safe.nite.go.jp/japan/db.html IATA dangerous Goods Regulations

RTECS:Registry of Toxic Effects of Chemical Substances Japan Industrial Safety and Health Association GHS Model SDS

Dictionary of Synthetic Oraganic Chemistry, SSOCJ, Koudansha Scientific Co.Ltd.

Chemical Dictionary, Kyouritsu Publishing Co., Ltd.

**Record of SDS revisions Disclaimer** 

The following contents were revised. Regulatory information.

This SDS is according to JIS Z 7253: 2019. 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, 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.

GHS Classification is according to JIS Z 7252:2019. \*JIS: Japanese Industrial Standards

**End of Safety Data Sheet**