



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 10-Jul-2024

Revision Number 2.06

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	(S)-(+)-2,3,7,7a-Tetrahydro-7a-methyl-1H-indene-1,5(6H)-dione
Product Code	327-67841,323-67843

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

Acute toxicity - OralCategory 3Skin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2ASkin sensitizationCategory 1Specific target organ toxicity (single exposure)Category 3

Category 3 Respiratory irritation

#### **Pictograms**



Signal word

Danger

### **Hazard statements**

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H301 - Toxic if swallowed

H335 - May cause respiratory irritation

H317 - May cause an allergic skin reaction

# **Precautionary statements-(Prevention)**

- · Wash face, hands and any exposed skin thoroughly after handling
- · Do not eat, drink or smoke when using this product
- Wear protective gloves/protective clothing/eye protection/face protection
- Avoid breathing dust/fume/gas/mist/vapors/spray
- · Contaminated work clothing should not be allowed out of the workplace
- Use only outdoors or in a well-ventilated area

# Precautionary statements-(Response)

• 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/attention
- IF ON SKIN: Wash with plenty of soap and water
- Take off contaminated clothing and wash before reuse
- 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
- Call a POISON CENTER or doctor/physician if you feel unwell
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- · Rinse mouth

### Precautionary statements-(Storage)

- Store locked up
- · Store in a well-ventilated place. Keep container tightly closed

#### 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 C10H12O2

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
(S)-(+)-2,3,7,7a-Tetrahy	97	164.20	N/A	N/A	17553-86-5
dro-7a-methyl-1H-inden					
e-1,5(6H)-dione					

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.

### 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

Sweep up and gather scattered particles, and collect it in an empty airtight container.

### 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**

Avoid contact with 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

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

**Storage** 

Safe storage conditions

Storage conditions Store away from sunlight in well-ventilated place at room temperature (preferably cool).

Keep container tightly closed.

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 Dust mask ( JIS T 8151 )

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** 

Colorpale brown - dark brownAppearancecrystals - crystalline powder

Odor no data available

Melting point/freezing point 54-59 °C

Boiling point, initial boiling point and boiling range
Flammability
Evaporation rate:
Flammability (solid, gas):

no data available
no data available
no data available

Upper/lower flammability or explosive limits

no data available Upper: no data available Lower: no data available Flash point **Auto-ignition temperature:** no data available **Decomposition temperature:** no data available no data available pН no data available Viscosity (coefficient of viscosity) **Dynamic viscosity** no data available Solubilities No data available

n-Octanol/water partition coefficient:(log Pow) 0.245

Vapour pressure no data available

Specific Gravity / Relative density 1.0

Vapour densityno data availableParticle characteristicsno 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

Incompatible materials

Strong oxidizing agents

**Hazardous decomposition products** 

Carbon monooxide (CO), Carbon dioxide (CO2)

# **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 toxicity
STOT-single exposure
STOT-repeated exposure
Aspiration hazard
no data available
no data available
no 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
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 UN2811

**Proper shipping name:** Toxic solid, organic, n.o.s.

((S)-(+)-2,3,7,7a-Tetrahydro-7a-methyl-1H-indene-1,5(6H)-dione)

UN classfication

Subsidiary hazard class

Packing group

Marine pollutant Not applicable

**IMDG** 

UN number UN2811

**Proper shipping name:** Toxic solid, organic, n.o.s.

((S)-(+)-2,3,7,7a-Tetrahydro-7a-methyl-1H-indene-1,5(6H)-dione)

UN classfication

Subsidiary hazard class

Packing group III

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 UN2811

**Proper shipping name:** Toxic solid, organic, n.o.s.

((S)-(+)-2,3,7,7a-Tetrahydro-7a-methyl-1H-indene-1,5(6H)-dione)

UN classfication 6

Subsidiary hazard class

Packing group

Environmentally Hazardous Not applicable

**Substance** 

# **Section 15: REGULATORY INFORMATION**

Japanese regulations

Fire Service Act
Poisonous and Deleterious
Not applicable
Not applicable

Substances Control Law

Industrial Safety and Health Act Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)

Regulations for the carriage Toxic Substances - Poison (Ordinance Art.3, Ministry of Transportation Ordinance

and storage of dangerous

Regarding Transport by Ship and Storage, Attached Table 1)

goods in ship

Civil Aeronautics Law

Toxic and Infectious Substances (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) ://www.chem-info.nite.go.jp/chem/chrip/chrip\_search/systemTop

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.

etc

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**