# **DOJINDO Laboratories**

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Safety Data Sheet (SDS)
This product is a chemical substance and is intended to be used by persons having chemical knowledge and skill, at their own discretion and risk.

Revision Date: Jul. 28, 2017

## Section 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 **Product identifier**

EC Number:

**Product Name:** 6-Ferrocenyl-1-hexanethiol

Product Code: F269 **CAS Number** 134029-92-8

1.2 Details of the supplier of the safety data sheet

Company: **Dojindo Laboratories** 

Address: Tabaru 2025-5 Mashiki-machi, Kamimashiki-gun, Kumamoto 861-2202.

Japan

+81-96-286-1515 Telephone: +81-96-286-1525 Fax: +81-96-286-1515 Emergency phone number:

1.3 **Product use** 

For research use only.

## Section2. HAZARDS IDENTIFICATION

### Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008.[EU-GHS/CLP]

Skin corrosion/irritation, Category 2

Serious eye damage/eye irritation, Category 2

Specific target organ toxicity - single exposure, Category 3

#### 2.2 Label elements

# Labeling according Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Pictogram:



Signal word: Warning

Hazard statement(s):

Causes skin irritation. H315 H319 Causes serious eye irritation. H335 May cause respiratory irritation.

Precautionary statement(s):

P261 Avoid breathing dust/fume/gas/mist/ vapours/spray.

P264 Wash /hands/face/forearms/clothing thoroughly after handling.

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

P280 Wear protective gloves/protective

clothing/eye protection/ face protection.

IF ON SKIN: Wash with plenty of soap and water. P302 + P352

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position 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.

P312 Call a POISON CENTER or doctor/physician if you feel unwell. P332 + P313 If skin irritation occurs: Get medical advice/attention.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

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

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/ international

regulations.

#### 2.3 Other hazards

None known.

# Section3. COMPOSITION/INFORMATION ON INGREDIENTS

Product Name: 6-Ferrocenyl-1-hexanethiol

Synonyms: 6-Ferrocenvl-1-hexanethiol

Concentration: **≦100** % C<sub>16</sub>H<sub>22</sub>FeS Formula: Molecular Weight: 302.26

# Section4. FIRST AID MEASURES

If swallowed:

Description of first aid measures

If breathed in, move into fresh air. Seek medical advice if discomfort If inhaled:

> occurs. If not breathing, give artificial respiration. Call a physician. Do not induce vomiting. Wash out mouth with water. Never give

anything by mouth to an unconscious person. Seek medical attention. In case of skin contact:

Wash off with plenty of water. Remove contaminated clothing and

launder before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Seek In case of eye contact:

medical attention if irritation occurs.

#### 4.2 Most important symptoms and effects, both acute and delayed

No information available.

#### Indication of any immediate medical attention and special treatment needed 4.3

No information available.

## Section5. FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing media

Use extinguishing media appropriate for the surrounding fire.

#### 5.2 Special hazards arising from the substance or mixture

May emit toxic fumes under fire conditions.

#### Special protective equipment for firefighters 5.3

Wear self-contained breathing apparatus and full protective clothing if necessary.

# Section6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment. Avoid formation of dust. Avoid breathing dust, vapors, mist or gas. Avoid contact with skin and clothing.

#### **Environmental precautions** 6.2

Prevent further leakage. Prevent contamination of drains with product.

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

Pick up and collect product in suitable container for disposal.

# Section7. HANDLING AND STORAGE

#### Precautions for safe handling 7.1

Avoid contact with skin and eyes. Avoid formation of dust. Avoid breathing dust, vapors, mist or gas. Wear appropriate protective personal equipment. Use only with adequate ventilation.

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

Keep tightly closed. Packed under Argon gas.

Store in a deep freeze at -20°C, dark and dry place.

### Section8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1 **Control parameters**

Contains no substances with occupational exposure limit values.

## 8.2 Exposure controls

# **Engineering measures**

Ensure adequate ventilation, especially in confined areas.

### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke. Wash hands, forearms and face after handing.

Personal protective equipment

Eye/face protection: Wear safety glasses with side-shields conforming to European Standard

EN166.

Hand protection: Wear protective gloves conforming to EU Directive 89/686/EEC and

European Standard EN374. Gloves must be inspected prior to use. Avoid skin contact with product when remove gloves. Dispose of

contaminated gloves safely after use.

**Skin and body protection:** Wear laboratory coat or impervious clothing. Choose appropriate body

protection according to the amount and concentration of the substance

at the work place.

**Respiratory protection:** Wear suitable respiratory equipment in case of inadequate ventilation.

# Section9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

a) Appearance: Yellow to yellowish orange solid

b) Odor: Pungent

c) Odor Threshold: No data available No data available d) pH: e) Melting point/freezing point: No data available f) Initial boiling point and boiling range: No data available g) Flash point: No data available h) Evaporation rate: No data available i) Flammability (solid, gas): No data available j) Upper / lower flammability or explosive limits: No data available

k) Vapor pressure: No data available I) Vapor density: No data available m) Relative density: No data available n) Solubility(ies): No data available o) Partition coefficient: n-octanol / water: No data available p) Auto-ignition temperature: No data available g) Decomposition temperature: No data available r) Viscosity: No data available

s) Explosive properties:

No data available
t) Oxidizing properties:

No data available

# Section 10. STABILITY AND REACTIVITY

# Stability and reactivity

Reactivity: Stable

Chemical stability: Stable at a deep freeze at -20°C, dark and dry place.

Possibility of hazardous reactions: No data available

Conditions to avoid: Heat, sunlight, high temperature

Incompatible materials:

Hazardous decomposition products:

Strong oxidizing agents, strong acids and bases

When decomposed, it may emit toxic fumes of
carbonmonoxide, carbon dioxide and sulfur oxides.

# Section11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

a) Acute toxicity:
b) Skin corrosion / irritation:
c) Serious eye damage/eye irritation:
No data available
No data available
No data available

d) Carcinogenicity:

No component of this product present at levels greater than or equal to 0.1% is identified as a possible, probable or confirmed human carcinogen by IARC.

e) Reproductive toxicity:

f) STOT - SE:
No data available

### 11.2 Potential health effects

Ingestion: May be harmful if swallowed.

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Skin: May be harmful if absorbed through skin. Causes skin irritation.

Causes serious eye irritation.

### 11.3 Additional Information

Eves:

No additional information is available

# Section12. ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

## Section13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

### **Product**

Contact a licensed professional waste disposal service to dispose of this material. Dispose of in accordance with local regulations.

### Contaminated packaging

Dispose of as unused product. Do not reuse empty containers.

# Section14. TRANSPORT INFORMATION

14.1 UN number

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: No IMDG: No IATA: No

### Section15. REGULATORY INFORMATION

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 [REACH], as amended by Commission Regulation (EU) No 453/2010.

15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture
No information available

# 15.2 Chemical Safety Assessment

No information available

# Section16. OTHER INFORMATION

Key to abbreviations and acronyms

STOT-SE: Specific Target Organ Toxicity - Single Exposure STOT-RE: Specific Target Organ Toxicity - Repeated Exposure

PBT: Persistent Bioaccumulative and Toxic

vPvB: very Persistent very Bioaccumulative and toxic

ADR: european Agreement concerning the international carriage of Dangerous

goods by Road

CAS: Chemical Abstracts Service

IARC: International Agency for Research on Cancer IATA: International Air Transport Association

IMDG: International Maritime code for Dangerous Goods

REACH: Registration, Evaluation, Authorization and restriction of Chemicals RID: Regulations concerning the International transport of Dangerous goods

by rail