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: Jan. 29, 2019

Section1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Thiol-reactive PES **Product Name:**

Product Code: T509 **CAS Number** EC Number:

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

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

Product use 1.3

For research use only.

Section2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

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

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008

2.2 Label elements

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

Pictogram:

Signal word: None

Hazard statement(s): None

Precautionary statement(s): None

2.3 Other hazards

None known.

Section3. COMPOSITION/INFORMATION ON INGREDIENTS

Product Name: Thiol-reactive PES

> 1-[3-(2-Maleimidoethylcarbamoyl)propoxy]-5-ethylphenazinium trifrate Synonyms:

Concentration: **≦100 %** $C_{25}H_{25}F_3N_4O_7S$ Formula:

Molecular Weight: 582.55

Section4. FIRST AID MEASURES

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.

If swallowed: Do not induce vomiting. Wash out mouth with water. Never give anything

by mouth to an unconscious person. Seek medical attention.

Wash off with plenty of water. Remove contaminated clothing and In case of skin contact:

launder before reuse.

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

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.

5.3 Special protective equipment for firefighters

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

Section6. ACCIDENTAL RELEASE MEASURES

6.1 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.

6.2 Environmental precautions

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

7.1 Precautions for safe handling

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.

Store in a cool (0-5°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.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

a) Appearance: Dark red to blackish brown solid

b) Odor: Odorless

c) Odor Threshold:
d) pH:
No data available
No data available
e) Melting point/freezing point:
No data available

f) Initial boiling point and boiling range:

g) Flash point:

h) Evaporation rate:

i) Flammability (solid, gas):

j) Upper / lower flammability or explosive limits:

k) Vapor pressure:

No data available

No data available

No data available

k) Vapor pressure:

No data available
No data available
m) Relative density:
No data available
No data available
No data available

o) Partition coefficient: *n*-octanol / water:
p) Auto-ignition temperature:
No data available
q) Decomposition temperature:
No data available

r) Viscosity:
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 cool (0-5°C), dark and dry place.

Possibility of hazardous reactions: No data available

Conditions to avoid: Heat, sunlight, high temperature

Incompatible materials: Strong oxidizing agents, strong acids and bases
Hazardous decomposition products: When decomposed, it may emit toxic fumes of carbon

monoxide, carbon dioxide, nitrogen oxides 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.

Eyes: Causes serious eye irritation.

11.3 Additional Information

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: -IMDG: -

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

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. This SDS was prepared with our best knowledge based on the information obtained. However, it does not provide any warranty on the data and the assessment of hazards and toxicity information be covered. For use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, region and country where the product be used.

In case you use the information on SDS for important decision, we strongly recommend you to confirm the source of information and the data with your own investigation. Please be noted that the physicochemical data and contents indicated in this SDS are not guaranteed values, only a guide.

The cautions stated are for normal handling only. Additional care may be required for any special handling. The data and/or information used on this SDS may be updated by new knowledge and/or amendments of the conventional theory. Therefore, please check the most updated version of SDS which is available at www.dojindo.com.