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. 29, 2017

Section 1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier
Product Name: Isothiocyanobenzyl-EDTA
Product Code: M030
CAS Number: 105394-74-9
EC Number: 635-166-9

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

1.3 Product use
For research use only.

Section 2. HAZARDS IDENTIFICATION

2.1 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):
H315 Causes skin irritation.
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.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
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.
Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Product Name: Isothiocyanobenzyl-EDTA
Synonyms: 1-(4-Isothiocyanatobenzyl)ethylenediamine- N,N,N',N'-tetraacetic acid
Concentration: \( \leq 100\% \)
Formula: \( C_{18}H_{21}N_{3}O_{8}S \)
Molecular Weight: 439.44

Section 4. FIRST AID MEASURES

4.1 Description of first aid measures
If inhaled: If breathed in, move into fresh air. Seek medical advice if discomfort 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.
In case of skin contact: Wash off with plenty of water. Remove contaminated clothing and 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.

4.3 Indication of any immediate medical attention and special treatment needed
No information available.

Section 5. 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.

Section 6. 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.

Section 7. 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. Protect from moisture. Store in a deep freeze at -20°C, dark and dry place.

Section 8. 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
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: White to slightly yellowish brown powder
b) Odor: Odorless
c) Odor Threshold: No data available
d) pH: No data available
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
l) 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
q) 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: 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.

Section 11. TOXICOLOGICAL INFORMATION
11.1 Information on toxicological effects
a) Acute toxicity: No data available
b) Skin corrosion / irritation: No data available
c) Serious eye damage/eye irritation: 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: No data available
f) STOT - SE: No data available
g) STOT - RE: No data available
h) Aspiration hazard: 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.

Section 11. Additional Information
No additional information is available

Section 12. 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

Section 13. 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.

Section 14. 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

Section 15. REGULATORY INFORMATION

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

Section 16. 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, Authorisation and restriction of Chemicals
RID: Regulations concerning the International transport of Dangerous goods by rail