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: June. 21, 2018

Section 1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier
Product Name: Cytotoxicity LDH Assay Kit-WST
Product Code: CK12
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
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]
- Acute toxicity, Category 4 (Oral)
- Serious eye damage/eye irritation, Category 2
- Skin corrosion/irritation, Category 1A
- Skin corrosion/irritation, Category 1B
- Skin corrosion/irritation, Category 1C
- Skin corrosion/irritation, Category 2

2.2 Label elements
Labeling according Regulation (EC) No 1272/2008 [EU-GHS/CLP]
Pictogram:

Signal word: Danger

Hazard statement(s):
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.

Precautionary statement(s):
- P260 Do not breathe dust/fume/gas/mist/ vapours/spray.
- P264 Wash /hands/face/forearms/clothing thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves/protective clothing/eye protection/ face protection.
- P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Product name: Cytotoxicity LDH Assay Kit-WST

<table>
<thead>
<tr>
<th>Hazardous Component</th>
<th>Hazard Code(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dye Mixture</td>
<td>H314</td>
</tr>
<tr>
<td>Lysis Buffer</td>
<td>H302, H315, H319</td>
</tr>
<tr>
<td>Stop Solution</td>
<td>H302, H315, H319</td>
</tr>
</tbody>
</table>

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.

2.3 Other hazards
None known.
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 light.
Store in a cool (0-5°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 handling.

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:
Dye Mixture: White to slightly yellow solid
Assay Buffer: Red liquid
Lysis Buffer: Colorless liquid
Stop Solution: Colorless liquid
b) Odor:
Dye Mixture: Odorless
Assay Buffer: Odorless
Lysis Buffer: Odorless
Stop Solution: 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 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: No data available
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.

11.3 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, Transport hazard class(es) and Packaging group

<table>
<thead>
<tr>
<th>UN number</th>
<th>Transport hazard class(es)</th>
<th>Packaging group</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADR/RID:</td>
<td>-</td>
<td>-</td>
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<tr>
<td>IMDG:</td>
<td>-</td>
<td>-</td>
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<tr>
<td>IATA:</td>
<td>-</td>
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</tr>
</tbody>
</table>

14.2 UN proper shipping name

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

14.3 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
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.