

Safety Data Sheet



1. Identification of the Substance/Mixture and the Supplier

Supplier : National Institute of Advanced Industrial Science and Technology (AIST)
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Identity of Substance/Mixture : Certified Reference Material NMIJ CRM 7521-a
 Diarrhetic Shellfish Toxins in Scallop Edible Parts
 Recommended Use and Restrictions on Use : This reference material can be used for analysis accuracy control and validation of analysis methods and equipment in the quantification of okadaic acids in scallop edible parts and similar specimens. Do not use this reference material for other purposes than testing/research.
 This CRM is a reference material (specified in the Japanese Industrial Standard (JIS) Q 0030).

2. Hazards Identification

GHS classification : Not classifiable
 GHS label element : -
 Signal word : -
 Hazards Statement : -
 Precautionary statement : [Safety Precaution]
 Low risks in normal handling.
 Wear personal protective equipment when handling this reference material.
 [First-Aid Measures]
 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 water.
 If swallowed: Rinse mouth with water. Call a doctor/physician.
 [Storage]
 Protect container from sunlight. Store in a clean place at

temperatures of $-30\text{ }^{\circ}\text{C}$ to $-20\text{ }^{\circ}\text{C}$.

[Disposal]

Abide by applicable legislation and ordinances set by local governments.

Entrust disposal of this reference material to a professional waste disposal company licensed by prefectural governor.

The other hazards than the above do not result in classification or are not classifiable.

3. Composition/Information on Ingredients

Substance or mixture	: Single substance
Chemical name	: Scallop edible parts
Synonym	: -
Chemical formula	: -
Molecular weight	: -
CAS number	: -
Content	: 99 % or more
Reference Number in Gazetted List in Japan	: Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. : - Industrial Safety and Health Act : -

Containing the following compounds:

- Okadaic acid (CAS No.78111-17-8): About 0.056 mg/kg
- Dinophysitoxin (DTX1)(CAS No.81720-10-7): About 0.057 mg/kg

4. First-aid Measures

If inhaled	: Remove victim to fresh air and keep at rest and warm. Get medical advice/attention.
If on skin	: Wash with clean water thoroughly. Remove/Take off all contaminated clothing, shoes, etc. If skin irritation or rash occurs: Get medical advice/attention.
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 swallowed	: Rinse mouth with water thoroughly. Call a doctor/physician.
Protection of First-Aid Responder	: Wear personal protective equipment.

5. Fire-fighting Measures

Extinguishing Media	: Extinguishing media appropriate for surrounding fire
Fire-Specific Hazards	: Nothing special
Specific Fire-Fighting Method	: Eliminate combustion sources at the origin of fire and put out fire by using extinguishing media. Move movable containers promptly to a safe place. If containers are immovable, cool their surroundings with water fog.

Protection of Fire-Fighters : Fight fire upwind to avoid breathing hazardous gas. Use personal protective equipment such as fire protection clothing, heat-resistant clothing, protective clothing, compressed air open-circuit self-contained breathing apparatus, circulating oxygen respirator, rubber gloves, and rubber boots.

6. Accidental Release Measures

Personal Precaution : Use appropriate personal protective equipment to avoid contact with skin and eyes and contamination of personal clothes.

Personal Protective Equipment and Emergency Procedures : Ventilate the affected areas thoroughly, if it is in an indoor environment, until the clean-up operation is completed. Use appropriate personal protective equipment during the operation to avoid skin contact of splash etc. and inhalation of dust and gas.

Environmental Precautions : Take precautions to prevent spillage from draining into rivers etc. to adversely impact the environment. Make it sure to appropriately treat contaminated wastewater to prevent untreated wastewater from being released into the surrounding environment.

Recovery and Neutralization : Collect leaked liquid in empty containers by making it adsorbed to waste cloth, soil, sand etc. Rinse away the remains with plenty of water.

Prevention of Secondary Disaster : Mark the restricted area with rope etc. to keep out unauthorized people. Carry out the clean-up operation from the upwind side and make people on the downwind side evacuate.

7. Handling and Storage

Handling

Engineering Precautions : Avoid contact with eyes.
Wear appropriate personal protective equipment when handling this reference material.
Do not use this reference material for other purposes than testing/research.

Local and General Ventilation : If vapor/mist is emitted: Seal the emission source and install local ventilation system.

Precautions for Safe Handling : Avoid rough handling such as knocking over, dropping, giving a shock to and dragging container.
Prevent this reference material from leaking, overflowing and splashing. Do not allow vapor to be emitted.
Keep container tightly closed after using this reference material.
Wash hands, face, etc. thoroughly and gargle after handling.
Restrict drinking, eating and smoking to a designated area.
Do not bring gloves and other contaminated personal protective equipment into staff room.

Make a place handling this reference material a restricted area to keep out unauthorized people.

Wear appropriate personal protective equipment to avoid inhalation and contact with eyes, skin and clothing.

Use local ventilation equipment in indoor handling areas.

Storage

Appropriate Storage : Protect container from sunlight. Store in a clean place at
Conditions : temperatures of $-30\text{ }^{\circ}\text{C}$ and $-20\text{ }^{\circ}\text{C}$.
Safe Container : Plastic
Packaging Material

※ See the Certificate for the details on appropriate storage conditions and instructions for use as a reference material.

8. Exposure Controls/Personal Protection

Threshold Limit Value

Not specified

Occupational exposure limit

- ACGIH TLV-TWA : Not specified
- Values recommended by Japan Society for Occupational Health : Not specified
- OSHA PEL TWA : Not specified

Engineering Controls

Ventilation/Exhaust : Local ventilation system or General ventilation system
Safety Control/ : Measuring equipment, Detecting tube
Gas Detection
Storage Precaution : Keep container tightly closed.

Personal Protective Equipment (PPE)

Respiratory System : Protective mask
Hands : Protective gloves
Eyes : Eye protection
Skin and Body : Protective clothing

Hygiene Controls

Handle this reference material in accordance with industrial health and safety codes.

9. Physical and Chemical Properties

- Appearance, etc. : Paste
- Color : Ocher color
- Odor : No data available
- pH : No data available
- Melting point : No data available
- Boiling point : No data available
- Flashing point : No data available
- Explosive range : No data available
- Vapor pressure : No data available

- Relative vapor density (Air=1) : No data available
 - Specific gravity or bulk specific gravity : No data available
 - Solubility : No data available
 - *n*-Octanol/water partition coefficient (Log Po/w) : No data available
 - Auto-ignition temperature : No data available
 - Decomposition temperature : No data available
 - Flammability : No data available
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10. Stability and Reactivity

◇Stability

- Stable in normal storage conditions

◇Reactivity

- No data

◇Possibility of hazardous reactions

- No data available

◇Conditions to Avoid

- Sunlight, Heat

◇Incompatible material

◇Incompatible material

- No data

◇Hazardous Decomposition Products

- No data
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11. Toxicological Information

Serious Eye Damage/ May irritate eyes

Eye Irritation

12. Ecological Information

Ecotoxicity

- No data available

Persistence and Degradability

- No data available

Bioaccumulate Potential

- No data available

Mobility in soil

- No data available

Ozone depletion potential

- No data available
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13. Disposal Considerations

- Residual Waste : Incineration method
Incinerate in an incinerator equipped with scrubber.
Dispose of this reference material in accordance with applicable legislation and local government ordinance.
When the above-mentioned treatments are not possible, entrust disposal of residual waste to a professional waste disposal company licensed by prefectural governor.
- Contaminated Container and Package : Dispose of containers after thoroughly removing their contents.
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14. Transport Information

- UN number : Not applicable
UN classification : -
Material name : -
Container grade : -
ICAO/IATA : Not applicable
Marine pollutant : Not applicable
Precaution : Transport this reference material carefully while keeping it away from direct sunlight and fire and preventing accidental release due to falling, being knocked over, etc.
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15. Regulatory Information

- No applicable legislation
 - ◎ **This SDS is originally prepared for the use of the material in Japan, thus the stated laws and regulations are stipulated and carried out in Japan. The use of the material in other countries should be referred to and by application of the relevant laws and regulations of the country in which the material will be used.**
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16. Other Information

Others

The information in this document is not intended to be exhaustive and is based on currently available information and data. The measures given in this document are applicable only to normal handling conditions. When handling this reference material under special conditions etc., it is recommended to take safety measures appropriate to each specific application and context of use. This document is intended to provide information and not intended to guarantee anything in handling this reference material.
