Safety Data Sheet

1. Identification of the Substance/Mixture and the Supplier

Supplier	:	National Institute of Advanced Industrial Science and Technology (AIST)
Address	:	1-3-1 Kasumigaseki, Chiyoda, Tokyo, Japan
Office in Charge	:	Reference Materials Office, Center for Quality Management of Metrology, National Metrology Institute of Japan (NMIJ)
Person in Charge	:	Certified Reference Material Staff
Telephone No.	:	+81-29-861-4059 Fax No. : +81-29-861-4009
Emergency Contact	:	Same as above
		Prepared on : March 1, 2017
		Revised on August 31, 2022
		ID Number : 7520001
Identity of Substance/Mixture	:	Certified Reference Material NMIJ CRM 7520-a Diarrhetic Shellfish Toxins in Scallop Midgut Gland
Recommended Use of the Chemical and Restriction on Use	:	This reference material can be used in the accuracy control of analysis and validation for analytical techniques for the determination of diarrhetic shellfish toxins in scallop midgut gland and similar materials. 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	:	-
Hazard and toxicity	:	-
Precautionary statement	:	［Safety Precaution］ Risk is limited in the normal handling. Use personal protective equipment when handling this reference material. ［First-Aid Measure］ 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: Seek medical examination/treatment. If on skin: Rinse skin with plenty of water. If swallowed: Rinse mouth with water. Call doctor/physician. ［Storage］ Store in a light-shielded clean place at a temperature between −20 ºC and −30 ºC.

［Disposal］
Dispose of this reference material in accordance with applicable legislation and local government ordinance.
Entrust disposal of this reference material and its containers to a professional waste disposal company licensed by prefectural government.

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 midgut gland
Synonym	:	-
Chemical formula	:	-
Molecular weight	:	-
CAS number	:	-
Content	:	99 % or above
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 : -

Note that this reference material contains the following compounds:
・Okadaic acid (CAS No.78111-17-8) About 0.2 mg/kg
・Dinophysitoxin (DTX1)(CAS No.81720-10-7) About 0.45 mg/kg

4. First-aid Measures

If inhaled	:	Remove victim to fresh air and keep him/her warm and at rest. Seek medical examination/treatment.
If on skin	:	Rinse skin with clean water. Remove/Take off contaminated clothing/shoes, etc. If skin irritation or flare occurs: Seek medical examination/treatment.
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: Seek medical examination/treatment.
If swallowed	:	Rinse mouth thoroughly with water. Call doctor/physician.
Protection of First-Aid Responder	:	Use personal protective equipment.

5. Fire-fighting Measures

Extinguishing Media	:	Extinguishing media appropriate for surrounding facilities
Fire-Specific Hazards	:	Nothing special
Specific Fire-Fighting Method	:	Eliminate ignition sources at the origin of a fire and put out fire by using extinguishing media. Remove movable containers promptly to a safe place. In the case of immovable containers, cool their surroundings with sprayed water.

Protection of Fire-Fighters	:	Carry out fire-fighting from the windward in order to avoid breathing hazardous gas. Use personal protective equipment such as fire-proof clothing, fire-resistant clothing, protective clothing, compressed air open-circuit self-contained breathing apparatus, compressed oxygen closed-circuit self-contained breathing apparatus, rubber gloves and rubber boots.

6. Accidental Release Measures

Personal Precaution	:	Use appropriate personal protective equipment to avoid contamination of skin, eyes and personal clothing.
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 in order to prevent untreated wastewater from being released into the surrounding environment.
Recovery, neutralization	:	Collect spilled liquid in empty containers by making it adsorbed to wiping cloth/rag or soil/sand, etc. Rinse away the remains with plenty of water.
Measures to prevent secondary accident	:	Mark the restricted area with rope etc. to keep out unauthorized people. Carry out the clean-up operation from the windward and make people on the leeward side evacuate.

7. Handling and Storage

Handling

Engineering Precautions	:	Avoid contact with eyes. Use 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 emitting vapor or mist, keep the emission sources tightly closed and use local ventilation system.
Precautions for Safe Handling	:	Avoid rough handling such as turning over, dropping, giving a shock to or dragging containers. Prevent spillage, overflow and scattering, and avoid vapor emission. Keep container tightly closed after using this reference material. Wash hands, face, etc. thoroughly and gargle after handling this reference material. Restrict drinking, eating and smoking to designated areas. 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.

Use appropriate personal protective equipment to avoid inhalation and contact with eyes, skin and clothing.
Use local ventilation system in indoor handling areas.

Storage

Appropriate Storage Conditions	:	Store in a light-shielded clean place at a temperature between −20ºC and − 30ºC.
Safe Container Packaging Material	:	Plastic

※ 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

Permissible Concentration

・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/ Gas Detection	:	Measuring equipment, Detecting tube
Storage Precaution	:	Store in a tightly closed container.

Personal Protective Equipment (PPE)

Respiratory System	:	Protective mask
Hands	:	Protective gloves
Eyes	:	Safety spectacles
Skin and Body	:	Protective clothing

Hygiene Controls
Handle this reference material in accordance with industrial health and safety standards.

9. Physical and Chemical Properties

・Appearance, etc.	:	Paste
・Color	:	Ocher color
・Odor	:	No data
・pH	:	No data
・Melting point	:	No data
・Boiling point	:	No data
・Flashing point	:	No data
・Explosive range	:	No data
・Vapor pressure	:	No data
・Relative vapor density(Air=1)	:	No data

- Specific gravity or bulk specific gravity : No data
- Solubility : No data
- *n*-Octanol/water partition coefficient (Log Po/w) : No data
- Auto-ignition temperature : No data
- Decomposition temperature : No data
- Flammability : No data

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

11. Toxicological Information

Serious Eye Damage/ Eye Irritation : May cause eye Irritation.

12. Ecological Information

Toxicity
- No data available

Persistence and Degradability
- No data available

Bioaccumulative Potential
- No data available

Mobility in soil
- No data available

Ozone depletion potential
- No data available

13. Disposal Considerations

Residual Waste : Incineration method
And burned in an incinerator equipped with a 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.

14. Transport Information

UN number	:	Not applicable
UN classification	:	-
Material name	:	-
Container grade	:	-
ICAO/IATA	:	Not applicable
Marine pollutant	:	Not applicable
Precautions	:	Avoid direct sunlight, pay attention to leaks due to falling, overturning, etc. and flames carefully. Transport this reference material carefully.

15. Regulatory Information

・No applicable laws and regulations

◎ **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.**

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.