

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)
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 Emergency Contact : Same as above

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Identity of Substance/Mixture : Certified reference material: NMIJ CRM 7601-a
 Seawater for Nutrients-Extremely Low Concentration
 Recommended Use of the Chemical and Restriction on Use : This reference material can be used for calibration of analysis equipment as well as quality control of analysis and validation of analysis method/equipment. 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 : Cannot be classified
 GHS Label Element : —
 Signal Word : —
 Hazards Statement : Considered that hazard is low
 Other Hazards Statement : Hardly toxic but hazardous if inhaled or ingested in plenty.
 May cause nausea, vomiting or blood pressure elevation.
 Cause slight irritation to eyes and mucous membrane.
 Precautionary Statement: : [Safety Precaution]
 Do not handle until all safety precautions have been read and understood.
 Obtain special instructions before use.
 Do not drink or eat when using this reference material.
 Use personal protective equipment (protective gloves, eye protector, etc.) to avoid exposure.
 Wash hands thoroughly after handling this reference material.
 Avoid release to the environment.
 [Action]
 If swallowed: Rinse mouth thoroughly with water.
 If in eyes: Rinse thoroughly with clean water.

[Storage]

Keep polypropylene container sealed in zippered aluminum bag. Protect from sunlight. Store in clean environment at temperature ranging from 5 °C to 30 °C.

[Disposal]

Comply with applicable legislation and local government ordinance. 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 covered by the GHS.

3. Composition/Information on Ingredients

Substance/Mixture	:	Mixture
Chemical Identity	:	Seawater
Synonym	:	-
Content	:	100 %
Chemical Formula or Structural Formula	:	-
Molecular Weight	:	-
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 : -
CAS Number	:	-
Hazardous Ingredient	:	-

4. First-aid Measures

If in eyes	:	Rinse away thoroughly with clean water. Get medical advice/attention.
If on skin	:	Rinse away thoroughly with clean water. Remove/Take off contaminated clothing, shoes, etc. Get medical advice/attention.
If inhaled	:	Remove victim to fresh air and keep warm and at rest. Get medical advice/attention.
If swallowed	:	Rinse mouth thoroughly with water. Get medical advice/attention.
Expected Acute and Delayed Symptom	:	-
Most Critical	:	-
Characteristic and Symptom	:	-
Protection of First-Aid Responder	:	Use personal protective equipment.

5. Fire-fighting Measures

Extinguishing Media	:	Carbon dioxide (CO ₂), Powder, Sand, Water, Foam
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- Fire-Specific Hazards : -
 Specific Fire-Fighting Method : -
 Protection of Fire-Fighters : Use personal protective equipment such as fireproof clothing, heat-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 : Remove potential ignition sources from the vicinity promptly. Get fire-fighting kit ready to be prepared for ignition.
- 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 and Neutralization : Collect spillage in empty containers by getting it adsorbed to wiping cloth, rag or earth and 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 windward and make people on the leeward side evacuate.

7. Handling and Storage

- Handling
- Engineering Precautions : Nothing special
- Local and General Ventilation : Keep container tightly closed and use local ventilation system if vapor/mist is generated.
- Precautions for Safe Handling : Avoid rough handling such as turning over, dropping, giving a shock to or dragging containers. Prevent spill, overflow and scattering, and avoid vapor generation. Keep container tightly closed after use. Wash hands, face etc. thoroughly and gargle after handling this reference material. 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.
Use appropriate personal protective equipment to avoid inhalation and contact with eyes, skin and clothing.
Use local ventilation system in indoor handling area.

Storage

- Appropriate Storage Conditions : Keep polypropylene container sealed in zippered aluminum bag. Protect from sunlight. Store in clean environment at temperature ranging from 5 °C to 30 °C.
- Safe Container Packaging Material : Polypropylene container

8. Exposure Controls/Personal Protection

Threshold Limit Value

Not specified

Permissible Concentration

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

Engineering Controls

- Ventilation/Exhaust : Local or general ventilation equipment
- Safety Control/ Gas Detection : Measuring equipment, Detecting tube
- Storage Precautions : Ventilated along floor surface. Tightly closed. Keep away from combustible materials, reducing agents and strong oxidizers.

Personal Protective Equipment (PPE)

- Respiratory System : Protective mask
- Hands : Protective gloves
- Eyes : Safety goggles
- 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. : Liquid
- Color : Clear and colorless
- 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 : 1.023 g/cm³ (25 °C)
 - Solubility : Mix with water at any mixture ratio
 - *n*-Octanol/water partition coefficient (Log Po/w) : No data
 - Auto-ignition temperature : No data
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10. Stability and Reactivity

◇Stability

- Stable under normal conditions

◇Reactivity

- May react if in contact with strong oxidizers and alkaline substances

◇Conditions to Avoid

- Sunlight, Heat, Contact with oxidizers and alkaline substances

◇Hazardous Decomposition Products

- Not applicable
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11. Toxicological Information

Considered that hazard is low.

Hardly toxic but hazardous if inhaled or ingested in plenty.

12. Ecological Information

Persistence and Degradability

- No data available

Bioaccumulative Potential

- No data available

Ecotoxicity

- No data available
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13. Disposal Considerations

- Residual Waste : 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 : Not applicable
 - Shipping Name : -
 - Packing Group : -
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ICAO/IATA	:	-
Marine	:	-
Pollutant	:	-
Precautions	:	Transport this reference material carefully while keeping it away from direct sunlight and fire and preventing accidental release due to falling, overturning, etc.

15. Regulatory Information

- No applicable laws and regulations

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.
