

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	:	Person in Charge of Certified Reference Materials			
Telephone No.	:	+81-29-861-4059 Fax No. : +81-29-861-4009			
<b>Emergency</b> Contact	:	Same as above			
		Prepared on 🗄 May 22, 2014			
		Revised on : August 31, 2022			
		ID Number : 7602001			
Identity of	:	Certified reference material: NMIJ CRM 7602-a			
Substance/Mixture		Seawater for Nutrients-Middle Concentration			
Recommended Use	:	This reference material can be used for calibration of analysis			
of the Chemical and		equipment as well as quality control of analysis and validation of			
Restriction on Use		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 :	Hardly toxic but hazardous if inhaled or ingested in plenty.
Statement	May cause nausea, vomiting or blood pressure elevation.
	Cause slight irritation to eyes and mucous membrane.
Precautionary :	[Safety Precaution]
Statement	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	:	Act on the Evaluation of Chemical Substances and Reg	ulation
Gazetted List in Japan		of Their Manufacture, etc. :-	
		Industrial Safety and Health Act 💠	
CAS Number	:	-	

4. First-aid Measu	res
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 <sub>2</sub> ), Powder, Sand, Water, Foam
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, when 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	:	Ventilate the affected areas thoroughly, if it is in an indoor
Equipment and		environment, until the clean-up operation is completed.
Emergency		Use appropriate personal protective equipment during the
Procedures		operation to avoid skin contact of splash etc. and inhalation of dust and gas.
Environmental	:	Take precautions to prevent spillage from draining into rivers
Precautions		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	:	Collect spillage in empty containers by getting it adsorbed to
Neutralization		wiping cloth, rag or earth and sand, etc. Rinse away the remains with plenty of water.
Prevention of	:	Mark the restricted area with rope etc. to keep out unauthorized
Secondary Disaster		people. Carry out the clean-up operation from the windward and make people on the leeward side evacuate.

# 7. Handling and Storage

Handling

Handling		
Engineering	:	Nothing special
Precautions		
Local and General	:	Keep container tightly closed and use local ventilation system if
Ventilation		vapor/mist is generated.
Precautions for Safe	:	Avoid rough handling such as turning over, dropping, giving a shock to or dragging containers
Handling		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	:	Keep polypropylene container sealed in zippered aluminum bag.
Conditions		Protect from sunlight. Store in clean environment at
		temperature ranging from 5 °C to 30 °C.
Safe Container	:	Polypropylene container
Packaging Material		



-						
Threshold Limit Value						
Not specified						
Permissible Concentratio	n					
• ACGIH TLV-TWA			:	Not specified		
• Value recommended Society for Occupatio	by nal	Japan Health	:	Not specified		
$\cdot$ OSHA PEL TWA			:	Not specified		
Engineering Controls						
Ventilation/Exhaust	:	Local or ger	neral	ventilation equ	uipment	
Safety Control/ Gas Detection	:	Measuring	equij	oment, Detectin	ng tube	
Storage Precautions	:	Ventilated a from combu oxidizers.	along Istibl	g floor surface. e materials, ree	Tightly closed. ducing agents an	Keep away d strong
Personal Protective Equip	ome	ent (PPE)				
<b>Respiratory</b> System	:	Protective r	nask			
Hands	:	Protective g	glove	5		
Eyes	:	Safety gogg	les			
Skin and Body	:	Protective c	lothi	ng		
Harrison & Constants						

#### Hygiene Controls

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

### 9. Physical and Chemical Properties

8. Exposure Controls/Personal Protection

• 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	:	1.023 g/cm <sup>3</sup> (25 °C)
density(Air=1)		
• Specific gravity or bulk	:	No data
specific gravity		
• Solubility	:	Mix with water at any mixture ratio
• <i>n</i> -Octanol/water partition	:	No data
coefficient (Log Po/w)		
• Auto-ignition temperature	:	No data

## 10. Stability and Reactivity

#### $\diamondsuit$ Stability

• Stable under normal conditions



 $\diamondsuit$ Reactivity

- $\cdot$  May react if in contact with strong oxidizers and alkaline substances
- $\diamondsuit \mathsf{Conditions}$  to Avoid
  - $\boldsymbol{\cdot}$  Sunlight, Heat, Contact with oxidizers and alkaline substances
- $\diamondsuit$  Hazardous Decomposition Products
  - $\boldsymbol{\cdot} \text{ Not applicable}$

## 11. Toxicological Information

Considered that hazard is low. Hardly toxic but hazardous if inhaled or ingested in plenty.

### 12. Ecological Information

Persistence and Degradability

 $\boldsymbol{\cdot}$  No data available

**Bioaccumulative Potential** 

 $\boldsymbol{\cdot}$  No data available

Ecotoxicity

 $\boldsymbol{\cdot}$  No data available

### 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.

### 14. Transport Information

UN Number	Not applicable
UN Classification	· Not applicable
Shipping Name	: -
Packing Group	: -
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

 $\boldsymbol{\cdot}$  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.