

Safety Data Sheet



1. Identification of	$\mathbf{th}$	e Substance/Mixture and t	he Supplier
Supplier	:	National Institute of Advance (AIST)	d Industrial Science and Technology
Address	:	1-3-1 Kasumigaseki, Chiyoda	, Tokyo, Japan
Office in Charge	:	Reference Materials Office, C	enter for Quality Management of
		Metrology, National Metrolog	y 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 24, 2006
			Revised on : August 31, 2022
			ID Number : 7303001
Identity of	:	Certified reference material:	NMIJ CRM 7303-a
Substance/Mixture		Trace Elements in Lake Sedin	nent
Recommended Use	:	This certified reference mater	rial is intended for use in controlling
of the Chemical and		analysis precision or for confi	rming the validity of analytical
Restriction on Use	e methods or instruments during the analysis of trace elements in		
		marine sediments or similar	samples. Do not use this material for
		other purposes than testing a	and research.
		This CRM is a reference mate	erial (specified in the Japanese
		Industrial Standard (JIS) Q (	0030).

# 2. Hazards Identification

GHS Classification :	Not classifiable
GHS Label Element :	-
Signal Word :	-
Hazard and :	-
toxicity	
Other hazards and $\therefore$	May not irritate eyes and skin significantly.
toxicity statement	Inhalation of large amount of dust may cause respiratory
	involvement.
Precautionary :	[Precaution]
Statement	This material has oral toxicity.
	[Action]
	If swallowed:Rinse his/her mouse with plenty of water. If the person
	feels sick, contact a physician.
	Skin contact: Wash with plenty of water. If any abnormal state is
	identified, seek medical attention.
	[Storage]
	Store in a dark and dry environment at normal room temperature.
	Close cap tightly and hermetically after use.



#### [Disposal]

Dispose of this reference material in accordance 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 classifiable.

[Emergency Measures]

Ingestion: Rinse mouth. If the person feels sick, contact a physician. Skin contact: Wash with plenty of water. If any abnormal state is identified, seek medical attention.

### 3. Composition/Information on Ingredients

Substance/Mixture	:	Mixture	
Chemical name	:	Lake Sediment	
Chemical Formula or	:	-	
Structural Formula			
Content	:	99 % or over	
Reference Number in	:	Act on the Evaluation of Chemical	Substances and Regulation of
Gazetted List in Japan		Their Manufacture, etc.	:-
		Industrial Safety and Health Act	:-

This CRM contains elements shown below;

Sb、As、Cd、Cr、Co、Cu、Pb、Hg、Mo、Ni、Se、Ag、Sn、Zn、Al、Ca、Fe、Mg、K、Na、Ti、Mn、P、Sr.

# 4. First-aid Measures

 $\bigcirc$ If in eyes:

- 1. Rinse well with plenty of clean water.
- 2. Get medical advice.
- $\bigcirc$ If on skin:
  - 1. Rinse well with plenty of clean water.
  - 2. Remove contaminated clothes, shoes, and garment. Get medical advice.

 $\Diamond$ If inhaled:

- 1. Move to a fresh air, rest and keep warm.
- 2. Get medical advice.
- $\bigcirc$ If swallowed:
  - 1. Rinse well with plenty of water.
  - 2. Get medical advice.
- $\bigcirc$  Measures to be taken to protect the person applying first aid:
- 1. Use personal protective equipment.

# 5. Fire-fighting Measures

Extinguishing Media	:	This material is not flammable, and use appropriate
		extinguishing media for the peripheral fire.
Fire-Specific Hazards	:	This material is not flammable.
Specific Fire-Fighting Method	:	Eliminate ignition sources at the origin of a fire and put out fire
		by using appropriate extinguishing media.
		In case of surrounding fire, move the container of this material
		to safety place. If the material is not movable, cool down the
		surroundings with water spray.
Protection of Fire- Fighters	:	Use personal protective equipment such as fireproof clothing,
		heat-resistant clothing, protective clothing, and compressed air
		open-circuit self-contained breathing apparatus, closed-circuit
		oxygen respirator, rubber gloves and rubber boot.

## 6. Accidental Release Measures

• Collect scattered fractions in empty containers in a way that dust does not scatter, then wash with plenty amount of water.

## 7.Handling and Storage

Handling

- $\boldsymbol{\cdot}$  Avoid contact with eyes, skin and clothes.
- $\boldsymbol{\cdot}$  Avoid inhalation of dust.
- Avoid prolonged or repeated exposure to this material.
- Do not eat, drink and smoke during handling.
- $\boldsymbol{\cdot}$  Wash hands well after handling.
- Avoid contact with fire, spark, and high temperature materials. Do not heat this material.
- Avoid contact or mixing with the oxidizing agent.

### Storage

• Close the cap of the container tightly after use. Store this material in a dark place at a normal room temperature.

## 8. Exposure Controls/Personal Protection

Notes for safety management

No data.

• No fire.

• Inhalation of vapor with high concentration may cause acute poisoning.

Threshold Limit Value

Not applicable.

Permissible Concentration

- ACGIH TLV-TWA : No data
- Japan Society for Occupational : No data
- Health recommendation value
- Facility engineering

## $\diamondsuit$ Ventilation/Exhaust

• Local ventilation system or General ventilation system (When a large amount of this material is handled and dust is generated.)

Personal Protective Equipment (PPE)

- $\boldsymbol{\cdot}$  Compressed air open-circuit self-contained breathing apparatus.
- $\cdot$  Safety goggles.

# 9. Physical and Chemical Properties

• Appearance, etc.	:	Fine powder
• Color	:	Gray
• 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	:	No data
density(Air=1)		
• Specific gravity or bulk	:	No data
specific gravity		
• Solubility	:	This material may dissolve in water slightly.
• <i>n</i> -Octanol/water partition	:	No data
coefficient (Log Po/w)		
• Auto-ignition temperature	:	No data

# 10. Stability and Reactivity

Stability
Stable under normal condition
Reactivity
No data
Conditions to avoid
No data
Hazardous decomposition products
No data

# 11. Toxicological Information

On skin	May cause irritation.
In eyes	May cause irritation.
Respiratory sensitization	:Inhalation of a large amount of dust this material
	may cause accumulation of dust and respiratory
	involvement.



## 12. Ecological Information

 $Degradability, \, concentration$ 

- $\cdot$  No data
- Bioaccumulation
- No data
- Ecotoxicity
- $\cdot$  No data

## 13. Disposal Consideration

• Entrust disposal of residual waste to a professional waste disposal company licensed by prefectural governor.

## 14. Transport Information

UN Number	:	Not applicable
UN	:	Not applicable
Classification		
Shipping Name	:	Not applicable
Packing Group	:	-
ICAO/IATA	:	-
Marine	:	No data
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

### Other

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.