

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
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 Emergency Contact : Same as above

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Identity of Substance/Mixture : Certified reference material: NMIJ CRM 7303-a
 Trace Elements in Lake Sediment
 Recommended Use of the Chemical and Restriction on Use : This certified reference material is intended for use in controlling analysis precision or for confirming the validity of analytical 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 and 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 : -
 Other hazards and toxicity statement : May not irritate eyes and skin significantly.
 Inhalation of large amount of dust may cause respiratory involvement.
 Precautionary Statement : [Precaution]
 This material has oral toxicity.
 [Action]
 If swallowed: Rinse his/her mouth 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

◇If in eyes:

1. Rinse well with plenty of clean water.
2. Get medical advice.

◇If on skin:

1. Rinse well with plenty of clean water.
2. Remove contaminated clothes, shoes, and garment. Get medical advice.

◇If inhaled:

1. Move to a fresh air, rest and keep warm.
2. Get medical advice.

◇If swallowed:

1. Rinse well with plenty of water.
2. Get medical advice.

◇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

- Avoid contact with eyes, skin and clothes.
- Avoid inhalation of dust.
- Avoid prolonged or repeated exposure to this material.
- Do not eat, drink and smoke during handling.
- 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

◇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)

- Compressed air open-circuit self-contained breathing apparatus.
- 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 density(Air=1) : No data
- Specific gravity or bulk specific gravity : No data
- Solubility : This material may dissolve in water slightly.
- *n*-Octanol/water partition coefficient (Log Po/w) : No data
- 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

- No data

Bioaccumulation

- No data

Ecotoxicity

- No data
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13. Disposal Consideration

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

- No applicable laws and regulations
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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.
