

Safety Data Sheet

1. Identification of the Substance and the Organization

Organization name : National Institute of Advanced Industrial Science and Technology (AIST)
Address : 1-3-1, Kasumigaseki, Chiyoda, Tokyo, Japan
Institute 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 No. : Same as above

Prepared on : April 12, 2010

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Reference No. : 7405001

Identification of the material : Certified Reference Material NMIJ CRM 7405-a Trace Elements and Arsenic Compounds in Seaweed (Hijiki)
Restrictions on their use and recommended use : This certified reference material (CRM) is for use in evaluating or validating analytical methods and instruments used for the determination of the elements listed below and arsenic compounds in Hijiki seaweed or similar matrices. Do not use this reference material for other purposes than testing/research.

2. Hazard Identification

GHS classification : Not classifiable
GHS label element : -
Signal word : -
Hazard and toxicity : -
Other hazard information : Inhalation of large amount of the dust may cause respiratory inflammation due to the dust accumulation
Precautionary Statement : [Safety Measures]
Low in harm at normal handling
[Emergency Measures]
Get medical assistance when absorbed large amount of dust
If in eye, wash with plenty of water, get medical assistance as needed
[Storage]
Protect from light, at room temperature in a clean place.
[Disposal]
Disposal by a commissioned professional waste disposal contractor licensed by the prefectural governor.
Hazardous and toxic properties not specified in the above are not subject to the classification nor classifiable.

3. Composition/Component Information

Single or compound product : Single product
Chemical name : Hijiki seaweed powder
Other name : -
Component and concentration : -



Official Gazette Public
Reference No.

Law Concerning the Evaluation of Chemical Substances
and Regulation of their Manufacture :-
Occupational Safety and Health Act :-

CAS No : -

EINECS : -

Except, contains the following elements

Elements	Mass fraction (g/kg)	Elements	Mass fraction (mg/kg)
Na	16.2	Al	147.0
K	47.5	As	35.8
Mg	6.8	Ba	14.6
Ca	15.2	Cd	0.8
Sr	1.5	Co	1.1
P	1.0	Cr	3.4
		Cu	1.6
		Fe	311.0
		Mn	14.1
		Ni	2.2
		Pb	0.4
		Zn	13.4

4. Emergency Measures

If in eyes : Rinse carefully with plenty of clean water. Get medical assistance
If on skin : Rinse with plenty of clean water
If inhaled : Move to get some fresh air, keep warm and rest. Get medical assistance
If swallowed : Wash mouth thoroughly with water.
Possible acute symptom and delayed symptoms : No data available
Most important characteristics and symptoms : No data available

5. Fire-Fighting Measures

Extinguishing media : Use a media compatible with a fire in the surrounding area
Specific hazards at the time of fire : -
Specific extinguishing measures : Remove fire sources, extinguish with the extinguishing agent. Transfer the movable containers to a safe place promptly. If impossible to move, cool the periphery by water-spray,
Protecting fire-fighting personnel. : Fire-safe, heat-resistant protective clothing, air-breathing apparatus, self-contained compressed air breathing apparatus, rubber gloves, rubber boots

6. Accidental Release Measures

- Suppress the dust dispersion and collect as much as possible in an empty container, then wash away with water.

7. Handling and Storage

Handling

- Prevent contact with eye
- Avoid inhaling the dust
- Should not be used for purposes other than the original research intent.

Storage

- Protect from light, in an airtight container at room temperature.

- ◇ An appropriate storage condition as a reference material and the precautionary statement of the use should be referred to the certificate.

8. Exposure Control/Personal Protection

Points of concern pertaining safety management

Not established

Administrative levels

Not established

Occupational exposure limit

- ACGIH TLV-TWA : Not established
- Japan Society for Occupational Health Recommended Reference Value : Not established

Facility engineering control

- In case of generating the dust, seal the source and use local ventilation system

Protective equipment

- Dust protective mask, protective gloves, safety eyeglasses, goggles

9. Physical and Chemical Properties

- Appearance, etc. : Powder
- Color : Brown
- Odor : No data available
- pH : No data available
- Melting point : No data available
- Boiling point : No data available
- Ignition point : No data available
- Solubility : No data available

10. Stability and Reactivity

- ◇ Stability
Stable under normal condition
- ◇ Conditions to avoid
Sunlight, humidity
- ◇ Hazardous decomposition products
No data available

11. Toxicological information

- Skin corrosivity and irritancy : None
- Severe damage to eye/eye irritancy : Possibly irritating
- Respiratory sensitization : May be irritant



If inhaled in large amount, accumulation in respiratory tract can be harmful and may cause damages

12. Ecological Information

Degradability, concentration

•No data available

Bioaccumulation

•No data available

Ecotoxicity

•No data available

13. Disposal Consideration

- Disposal shall be in compliance with the ordinances and regulations of local authorities
 - Disposal of an empty container shall be after removing/decontaminating the content completely.
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14. Transport Information

UN Number : Not applicable

UN Classification : Not applicable

Material name : -

Container grade : -

ICAO/IATA : -

Marine pollutant : -

Precautions : Avoid sunlight, transfer with care. Avoid falling. Do not drop

15. Applicable Laws and Regulations

- Not applicable

© **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 Safety Data Sheet is not intended to be exhaustive and is based on currently-available information and data. The precautions given in this data sheet are applicable only to normal handling conditions. When handling this reference material under special conditions etc., it is recommended to take safety precautions appropriate to each specific application and context of use. This Safety Data Sheet (SDS) is intended to provide information and not intended to guarantee anything in handling the reference material. This Safety Data Sheet (SDS) is prepared based on JIS Z7253, and presents identical information to Material Safety Data Sheet (MSDS) prepared based on JIS Z7250:2010.
