

Safety Data Sheet



1. Identification of the Substance/Mixture and the Supplier

Supplier : National Institute of Advanced Industrial Science and Technology (AIST)
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Identification of the Material : Certified Reference Material NMIJ CRM 7502-a
 Trace Elements in White Rice Flour (Cd Level II)
 Recommended Use of the Chemical and Restriction on Use : This reference material can be used for in controlling the precision of analysis or to confirm the validity of analytical methods or instrument during the analysis of trace element in grains and beans. 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 : Unclassifiable
 GHS Label Element: -
 Signal word : -
 Hazard and toxicity: -
 Other hazard and toxicity : If inhaled in a large amount, the accumulation in respiratory organ causes impairment.
 Precautionary statement : [Safety Precaution]
 Low in hazard when handled normally.
 [First-Aid Measures]
 If inhaled the dust in a large amount, seek advice from a respiratory specialist.
 If in eyes, rinse with a large amount of clean water and seek medical advice if necessary.
 [Storage]
 Store the sample in a clean place at room temperature protecting from sun light.
 [Disposal]
 The content or the container should be incinerated in an appropriate

incinerator, or outsourced to a professional industrial waste disposal contractor licensed by the prefectural governor.

Hazardous and toxic properties not specified in the above are neither the object of the classification nor classifiable.

3. Composition/Information on Ingredients

Single or compound : Single product
product
Chemical name : White rice
Synonym : -
Chemical formula : -
Molecular weight : -
CAS number : -
Content : Over 99 %
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 :-

Except this CRM contains ingredients shown below:

Element (element symbol)	Cr	Mn	Fe	Ni	Cu	Zn	As	Rb	Sr	Mo
Concentration Mass Fraction (mg/kg)	0.075	11.2	4.48	0.390	3.02	26.0	0.109	1.77	0.068	0.79
Element (element Symbol)	Cd	Ba	Pb	Na	Mg	P	K	Ca		
Concentration Mass Fraction (mg/kg)	0.548	0.137	0.0043	5.8	560	1800	1430	60		

4. First-aid Measures

- ◇ If in eye
 1. Rinse well with clean water.
 2. Seek medical advice
- ◇ If on skin
 1. Rinse well with clean water
- ◇ If inhaled
 1. Move to a fresh air, keep warm and rest.
 2. Seek medical advice.
- ◇ If swallowed
 1. Wash the mouth well with water.
- ◇ Measures to be taken to protect the person applying first aid
 - Use personal protective equipment.

5. Fire-fighting Measures

- Extinguishing media : Fire extinguishing media corresponding to the fire in the periphery area.
- Specific hazards at the time of fire : None
- Specific extinguishing measures : Remove combustion sources away from the seat of the fire and extinguish with fire extinguishing agent. If possible, promptly transfer the container to safe area. If unable to transfer, cool down the periphery with water spray.
- Protecting fire-fighting personnel : Use protective equipment such as fire-resistant clothing, heat-resistant protective clothing, protective clothing, air-breathing apparatus, closed-circuit self-contained oxygen breathing apparatus, rubber gloves, rubber boots, etc.

6. Accidental Release Measures

1. Collect as much as possible in an empty container by a method that prevents the dust to scatter.

7. Handling and Storage

Handling

- Technological counter measure : Avoid contact with eyes
- Local ventilation/general ventilation : Use local exhaust ventilation system if handled in an indoor work place.
- Precautions for safe handling : Do not treat the container roughly, no overturning, dropping, or dragging that causes shock.
Prevent leakage, spillage, overflow and scatter. Do not exude dust.
Close the container airtight after handling.
Wash hands, face, etc. and gargle after handling.
Eating, drinking and smoking only in designated places.

Storage

- Appropriate condition : Store in a clean place at room temperature protected from sun light.
- Material for safe packing : Glass

8. Exposure Controls/Personal Protection

Considerations for safety management

Not established

Administration level

Not established

Occupational exposure limit

- ACGIH TLV-TWA : Not established

•Japan Society for Occupational Health Recommended Reference : Not established

•OSHA PEL TWA : Not established

Facility engineering

Ventilation, exhaust : In case of exuding dust, seal the source and install local ventilation system.

Safety management, gas detection : -

Storage precaution : Store in a clean place at room temperature protected from light.

Protective equipment

Respiratory organ : Dust protective mask

Hand : Protective gloves

Eye : Safety goggle

Skin and body : Long-sleeved protective clothes

9. Physical and Chemical Property

- Appearance, etc. : Powder
- Color : Creamy white
- Odor : Odorless
- 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 : Possibly soluble in water
- *n*-Octanol/water partition coefficient (Log P_{o/w}) : No data
- Auto-ignition temperature : No data

10. Stability and Reactivity

◇Stability

- Stable under normal condition

◇Reactivity

- No data available

◇Conditions to avoid

- Sunlight, humidity

◇Hazardous decomposition products

- No data available

11. Toxicological Information

Skin corrosivity/irritation	:None
Severe damage to eyes/ eye irritation	:Irritation possible
Respiration organ sensitivity	:If inhaled in a large amount, the accumulation in respiratory organ causes impairment.

12. Ecological Information

- Degradability, concentration
 •No data available
- Bioaccumulation
 •No data available
- Ecotoxicity
 •No data available

13. Disposal Considerations

- Outsource to a professional industrial waste disposal contractor licensed by the prefectural governor.

14. Transport Information

UN No.	: Not applicable
UN classification	: Not applicable
Material name	: -
Container grade	: -
ICAO/IATA	: -
Marine pollutant	: Not applicable
Precautions	: Transfer carefully avoiding direct sunlight and prevent the container from dropping, overturning, etc.

15. Regulatory Information

- No applicable laws and regulations
- © **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

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.
