

## 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  
 Person in Charge : Certified Reference Material Staff  
 Telephone No. : +81-29-861-4059 Fax No. : +81-29-861-4009  
 Emergency Contact : Same as above

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Reference No. : 7503002

Identity of : Certified Reference Material NMIJ CRM 7503-b  
 Substance/Mixture : Arsenic Compounds and Trace Elements in White Rice Flour  
 Recommended Use of : This certified reference material (CRM) is for use in controlling the  
 the Chemical and precision of analysis and to confirm the validity of analytical  
 Restriction on Use methods and instruments during the analysis of arsenic  
 compounds and trace elements in rice flour. 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 : Not classifiable  
 GHS label element : -  
 Signal word : -  
 Hazard and toxicity : -  
 Other hazard and : Absorption of the dust in large amounts, may cause  
 toxicity : adverse effects on respiratory tract  
 Precautionary : [Safety Measures]  
 statement : Not harmful under normal handling  
 [Emergency Measures]  
 If inhaled in large amounts, consult a respiratory specialist.  
 If in eye, rinse off with plenty of water and seek for medical help as  
 necessary.  
 [Storage]  
 Protect from sun light, and store at room temperature in a clean place  
 [Disposal]  
 The waste disposal should be outsourced to a specialized company  
 authorized by the prefectural governor.

Hazardous and toxic properties not specified in the above are not subject to  
 the classification or not classifiable.

### 3. Composition/Information on Ingredients

Substance or mixture : Single product  
 Chemical name : White Rice Flour

Synonym	:	-
Chemical formula	:	-
Molecular weight	:	-
CAS number	:	-
Content	:	Over 99.9 % Note that the following trace elements are contained; Mn, Fe, Cu, Zn, As, Cd.
Reference Number in Gazetted List in Japan	in	: Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. :- : Industrial Safety and Health Act :-

#### 4. First-aid Measures

If in eyes	:	Rinse carefully with plenty of clean water. Get medical assistance.
If on skin	:	Rinse with a large amount of water.
If inhaled	:	Move to a fresh air, keep warm and rest. Get medical assistance.
If swallowed	:	Wash mouth thoroughly with water.
Measures to be taken to protect the person applying first aid	:	-

#### 5. Fire-fighting Measures

Extinguishing media	:	Use a medium compatible with the fire in the surrounding area
Unusable extinguishing media	:	-
Specific hazards at the time of fire	:	-
Specific extinguishing measures	:	Remove fire sources, use 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	:	Use protective equipment such as fire-resistant protective clothing, heat resistant protective clothing, protective clothing, self-contained compressed air breathing apparatus, closed circuit breathing apparatus, rubber gloves, rubber boots, etc.

#### 6. Accidental Release Measures

Personal precautions	:	Use suitable protective equipment to protect eyes and avoid inhaling dust.
Protective equipment and emergency procedure	:	Use suitable protective equipment such as safety glasses and safety mask to protect eyes and avoid inhaling dust.
Environmental precaution	:	To prevent causing environmental impact, do not release the spilled material into rivers, etc. directly. Treat the contaminated waste water appropriately before discharging to the environment.
Recovery, neutralization	:	Collect in an empty container as much as possible by suppressing the dust dispersion.

Prevention of Secondary :  
Disaster

## 7. Handling and Storage

### Handling

- Engineering : Use appropriate protective equipment to avoid contact with eye.
- Precautions : Use appropriate protective equipment to avoid inhaling the dust.
- Local and General : Use local exhaust ventilation system when dust is generated.
- Ventilation
- Precautions for Safe : Should not be used for purposes other than the original research intent.
- Handling : Avoid contact with eye.  
Avoid inhaling the dust.

### Storage

- Appropriate condition : Protect from sunlight.  
Seal and store in a clean place at room temperature.
- Safe packing material : Glass, plastic

※ Please refer to the certificate regarding details of appropriate storage conditions and precautions for use as reference material.

## 8. Exposure Controls/Personal Protection

### Threshold Limit Value

Not established

### Occupational exposure limit

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

### Facility engineering control

- Ventilation/Exhaust : Local ventilation system or General ventilation system.  
Provide a safety shower, a hand wash, eyewash facility close to the handling location. And, display the position clearly.

### Personal Protective Equipment (PPE)

- Respiratory organ : Protective mask
- Hand : Protective gloves
- Eyes : Protective eyeglasses
- Skin and body : Protective work clothing

### Hygiene Controls

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

## 9. Physical and Chemical Properties

- Appearance, etc. : Flour
- Color : Creamy white
- 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 : May be water soluble
- *n*-Octanol/water partition coefficient (Log Po/w) : No data
- Auto-ignition temperature : No data
- Decomposition temperature : No data
- Flammability : No data

#### 10. Stability and Reactivity

- Stability : Stable under normal condition
- Reactivity : May react with strong oxidizing material to burn or explode.
- Hazardous reactivity : No data available
- Conditions to avoid : Sunlight, humidity
  
- Incompatible material : Strong oxidizing material
- Hazardous decomposition products : Carbon monoxide and carbon dioxide

#### 11. Toxicological information

- Acute toxicity : -
- Skin corrosivity/irritation ; -
- Severe damage to eyes/ eye irritation ; May cause eye irritation.
- Respiratory sensitization ; If inhaled in a large amount, the accumulation in respiratory organ causes impairment.

#### 12. Ecological Information

- Hazardous to the aquatic environment, short-term (Acute) ; No data available
- Hazardous to the aquatic environment, long-term (Chronic) ; No data available

Ecotoxicity : No data available  
Persistence and Degradability ; No data available  
Bioaccumulation ; No data available  
Mobility in soil : No data available  
Ozone depletion potential ; No data available

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### 13. Disposal Considerations

Residual waste : Disposal should be in compliance with the related laws and regulations and the regulations of the local government.  
Contaminated container and package : Disposal of the empty container should be after the complete removal of the content.

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### 14. Transport Information

UN Number : Not applicable  
UN Classification : Not applicable  
Material name : -  
Container grade : -  
ICAO/IATA : -  
Marine pollutant : -  
Precautions : Transfer with care, avoid direct sunlight. Do not drop or let fall the container.

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### 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.**
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### 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.

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