

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
 Telephone No. : +81-29-861-4059 Fax No. : +81-29-861-4009
 Emergency No. : Same as above

Prepared on : August 18, 2009

Revised on : April 1, 2015

Reference No. : 7503001

Identity of Substance/Mixture : Certified Reference Material NMIJ CRM 7503-a
 Arsenic Compounds and Trace Elements in White Rice Flour

Recommended Use of the Chemical and Restriction on Use : This certified reference material (CRM) is for use in controlling the precision of analysis or to confirm the validity of analytical methods or instruments during the analysis of arsenic compounds and/or trace elements in rice flour. 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 : Absorption of the dust in large amounts, may cause adverse effects on respiratory tract
 Precautionary Statement : [Safety Measures]
 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 light, 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/Component Information

Single or compound product : Single product

Chemical name : White Rice Flour
 Other name : -
 Component and concentration : -
 Official Gazette Public Law Concerning the Evaluation of Chemical Substances
 Reference No. and Regulation of their Manufacture: -
 Occupational Safty and Health Law : -
 CAS No : -
 EINECS : -
 Note that the following elements are contained

Element	Mass Fraction (mg/kg)
Mn	9.2
Fe	5.4
Cu	1.9
Zn	20.7
As	0.10
Cd	0.19

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 medium compatible with the fire in the surrounding area
 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. : Fire-safe, heat-resistant protective clothing, air-breathing apparatus, self-contained compressed air breathing apparatus, rubber gloves, rubber boots

6. Accidental Release Measures

- Collect in an empty container as much as possible by suppressing the dust dispersion.

7. Handling and Storage

- Handling
- Avoid contact with eye
 - Avoid inhaling the dust

- Should not be used for purposes other than the original research intent.

Storage

- Protect from light, in a clean place at room temperature.

※Refer to the Certificate for the precaution statement regarding the appropriate condition of the storage and usage of the reference material

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

- If there is a possibility of the dust, seal the source and use local ventilation system.

Protective equipment

- Protective mask, protective gloves, safety eye glasses

9. Physical and Chemical Properties

- Appearance, etc. : Flour
- Color : Creamy white
- Odor : No data available
- pH : No data available
- Melting point : No data available
- Boiling point : No data available
- Ignition point : No data available
- Solubility : May be water soluble

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/irritancy : None
- Severe damage to eye/eye irritancy : Possibly irritating
- Respiratory sensitization : If inhaled in large amount, accumulation in respiratory tract may be harmful and cause adverse effects

12. Ecological Information

Degradability, concentration

- No data available

Bioaccumulation

- No data available

Ecotoxicity

- No data available

13. Disposal Consideration

- Disposal should be in compliance with the related laws and regulations and the regulations of the local government.
- Disposal of the empty container should be after the complete removal of the content material

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.

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.