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

Prepared on: December 27, 2017
Revised on: June 26, 2018
Reference No.: 7503002

Identity of Substance/Mixture: Certified Reference Material NMIJ CRM 7503-b
Recommended Use of the Chemical and Restriction on Use: This certified reference material (CRM) is for use in controlling the precision of analysis and to confirm the validity of analytical 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.

2. Hazards Identification

GHS classification: Not classifiable
GHS label element: -
Signal word: -
Hazard and toxicity: 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 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 : 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 :
Protecting fire-fighting personnel :

6. Accidental Release Measures
Personal precautions : Use suitable protective equipment to protect eyes and avoid inhaling dust.
Protective equipment and emergency procedure :
Environmental precaution :
Recovery, neutralization :
Prevention of Secondary :
7. Handling and Storage

Handling Engineering Precautions: Use appropriate protective equipment to avoid contact with eye.

Precautions: Use appropriate protective equipment to avoid inhaling the dust.

Local and General Ventilation Precautions: Use local exhaust ventilation system when dust is generated.

Precautions for Safe Handling: Should not be used for purposes other than the original research intent.

Avoid contact with eye.

Avoid inhaling the dust.

Storage Appropriate condition: Protect from sunlight.

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

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
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

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.

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. 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
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.