

# 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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 Emergency Contact : Same as above

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Identity of Substance/Mixture : Certified reference material NMIJ CRM 7531-a  
 Cadmium in Brown Rice Flour  
 Recommended Use of the Chemical and Restriction on Use : This reference material can be used for controlling the precision of analysis or confirming the validity of analytical methods or instruments during the analysis of cadmium and trace elements in rice and other grains. 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 : Classification not possible  
 GHS labeling element : Classification not possible  
 Signal word : -  
 Hazard and toxicity information : -  
 Other toxicity information : In case of inhalation of powder or dust in large quantity, its accumulation in respiration organs may cause health hazards.  
 Cautionary statement : [Preventive measures]  
 Low risk in ordinary operations.  
 [Care]  
 When powder or dust is inhaled in large quantity, check with a respiratory disease specialist.  
 In case of eye contact, wash eyes with plenty of water and seek medical attention if necessary.  
 [Storage]  
 Keep out of sunlight at a clean place at room temperature (30 °C)

or cooler).

[Disposal]

Use a waste-treatment firm certified by prefectural governor.

Classification is impossible or not applicable for hazards not mentioned above.

### 3. Composition/Information on Ingredients

Single substance or : Single substance

Compound

Chemical name : Brown rice

Synonym : -

Chemical formula : -

Molecular weight : -

CAS number : -

Content : >99%

Reference Number in : Act on the Evaluation of Chemical Substances and Regulation  
Gazetted List in Japan of Their Manufacture, etc. : -

Industrial Safety and Health Act : -

Other ingredients below are contained in this CRM;

Mn, Fe, Cu, Zn, As, Cd.

### 4. First-aid Measures

Eye contact : Wash eyes with plenty of clean water. Seek medical attention.

Skin contact : Wash the skin with plenty of clean water.

Inhalation : Remove the exposed person to fresh air. Keep them steady and warm. Provide them medical attention.

Ingestion : Rinse the mouth well with water. Contact a physician.

Estimated acute and : -

late symptom

Protection of first- : Use personal protective equipment.

aiders

### 5. Fire-fighting Measures

Extinguishing media : Use extinguishing media for peripheral fire.

Specific hazards with : None

regard to fire-fighting

Specific methods of fire- : Eliminate the origin of fire and put the fire out with  
fighting extinguishing media. If possible, move containers to a safe place. If not, cool the peripheral areas with water spray.

Protection for : Work from the windward side to prevent the inhalation of toxic  
firefighters gas. Use fire-prevention clothing, fireproof clothing, fire-protection clothing, respirator, circulating oxygen breathing apparatus, rubber gloves, and rubber boots.

## 6. Accidental Release Measures

Prevention of second accident : Collect powder or dust in an empty container as much as possible, preventing its scattering at the same time.

## 7. Handling and Storage

### Handling

- Avoid eye contact.
- Avoid inhalation of dust.
- Do not use it for any purpose other than research purposes.

### Storage

- Keep out of sunlight at a clean place at room temperature (30 °C or cooler).

Safe packaging materials : Glass

## 8. Exposure Controls/Personal Protection

### Standard control concentration

N/A

### Threshold limit values (material name)

- ACGIH TLV-TWA (2000) : N/A
- Value recommended by Japanese Society of Occupational Health (1998) : N/A
- OSHA PEL TWA : N/A

### Engineering controls

- When dust is generated, seal the source, and provide local exhaust ventilation.

### Protective equipment.

- Dust mask, protective gloves, and safety glasses.

## 9. Physical and Chemical Properties

- Appearance, etc. : Powder
- Color : Light brown
- 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 : Some ingredients may be soluble in water.
- *n*-Octanol/water partition : No data

coefficient (Log Po/w)

- Auto-ignition temperature : No data
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## 10. Stability and Reactivity

### ◇Stability

- Stable under normal conditions

### ◇Reactivity

- No data

### ◇Conditions to avoid

- Sunlight, moisture

### ◇Hazardous decomposition products

- No data
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## 11. Toxicological Information

Serious eye damage/eye irritation Possible

Respiratory sensitization In case of inhalation of powder or dust in large quantity, accumulation in respiration organs may cause health hazard.

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## 12. Ecological Information

Degradability/Concentration

- No data

Bioaccumulation

- No data

Ecotoxicity

- No data
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## 13. Disposal Considerations

- Dispose in accordance with related laws, regulations, and local regulations.
  - To dispose an empty container, completely remove the content.
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## 14. Transport Information

UN Dangerous : Not applicable

Goods Number

UN Classification : Not applicable

Product name : -

Packing group : -

ICAO/IATA : -

Marine pollutant : -

Matters to be attended to : Avoid direct sunlight, prevent turnover or falling of the container, and transport carefully.

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## 15. Regulatory Information

- No applicable laws and regulations
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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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