

Safety Data Sheet



1. Identification of	$th\epsilon$	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 Telephone No. : +81-29-861-4059
Emergency Contact	:	Same as above
		Prepared on : February 8, 2012
		Revised on : August 31, 2022
		ID Number : 7511001
Identity of	:	Certified reference material: NMIJ CRM 7511-a
Substance/Mixture		Trace elements in soybean flour
Recommended Use	:	This reference material can be used for quality control of
of the Chemical and		quantitative analysis of trace elements in beans and samples
Restriction on Use		similar to beans as well as for validation etc. of analysis methods
		or analysis equipment. 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:	Cannot be classified
GHS Label Element:	Cannot be classified
Signal Word :	-
Hazards Statement:	-
Other Hazards :	Cause disorders due to accumulation in respiratory organs when particles of this reference material are inhaled in large amounts
Precautionary :	[Safety Precaution]
Statement	Low risk under normal handling conditions
	[First-Aid Measures]
	Inhalation of particles of this reference material in large amounts:
	Seek medical examination/treatment at respiratory department.
	Eye contact: Irrigate eyes with a large amount of water and seek
	medical examination/treatment as necessary.
	[Storage]
	Store this reference material in light-shielded clean environment at
	[Disposal]
	Entrust disposal of this reference material to a professional waste
	disposal company licensed by prefectural governors.
	The other hazards than the above do not result in classification or



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are not covered by the GHS.

3. Composition/Information on Ingredients

Substance or mixture	:	Single Substance :
Chemical Identity	:	Soybean
Synonym	:	-
Chemical formula	:	-
Molecular weight	:	-
CAS number	:	-
Content	:	100 %
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 :-

This CRM contains minor elements shown below; Ca, K, Mg, P, Cd, Cu, Fe, Zn.

4. First-aid Measures					
Eye Contact	:	Irrigate eyes thoroughly with clean water. Seek medical examination/treatment_ \space			
Skin Contact	:	Flush exposed skin area thoroughly with clean water. Take off contaminated clothing and shoes. Seek medical examination/ treatment.			
Inhalation	:	Move the person to fresh air and keep him/her at rest and warm. Seek medical examination/treatment.			
Ingestion	:	Flush mouth thoroughly with water. Seek medical attention.			
Anticipated Acute and Delayed Symptoms	:	-			
The Most Important	:				
Symptoms and Effects					
Protection of First Responders	:	Use personal protective equipment.			

5. Fire-fighting Measures

Extinguishing Media	:	Fire-extinguishing agent suitable for the surrounding fire
Fire-Specific Hazards	:	None
Specific Fire-Fighting	:	Eliminate combustion sources at the origin of a fire and put
Method		out fire by using extinguishing media. Move movable
		containers immediately to a safe place. In the case of
		immovable containers, cool their surroundings with sprayed $% \left({{{\left[{{{\left[{{{c}} \right]}} \right]}_{i}}}_{i}}} \right)$
		water.
Protection of Fire-	:	Carry out fire-fighting from the windward in order to avoid
Fighters		inhalation of hazardous gas. Use personal protective
Protection of Fire- Fighters	:	containers immediately to a safe place. In the case of immovable containers, cool their surroundings with sprayer water. Carry out fire-fighting from the windward in order to avoid inhalation of hazardous gas. Use personal protective



equipment such as fireproof clothing, heat-resistant rescue suit, protective clothing, air respirator, closed-circuit selfcontained breathing apparatus (SCBA), rubber gloves and rubber boots.

6. Accidental Release Measures

Personal Precaution	:	Immediately remove potential ignition sources from surrounding areas. Make fire-extinguishing tools available to prepare for fire ignition.
Personal Protective Equipment and Emergency Procedures	:	Ventilate the affected area thoroughly until the clean-up operation is completed when accidental release takes place indoor. Use appropriate personal protective equipment during the operation to avoid skin contact of splash etc. and inhalation of dust and gas.
Environmental Precautions	:	-
Recovery and Neutralization	:	-
Secondary Disaster Prevention Measures	:	Collect the released reference material in empty containers as much as possible by using a method to prevent scatter of its particles.

7. Handling and Storage

Handling

- Avoid contact with eyes.
- · Avoid inhalation of particles of this reference material.
- Do not use this reference material for other purposes than research.

Storage

 Store this reference material in light-shielded clean environment at room temperature. Safe Container/ : Glass Packaging Material

8. Exposure Controls/Personal Protection

Cut-Off Value/Concentration Limit

Not specified

Permissible Concentration

• ACGIH TLV-TWA (2000)	:	Not specified
• Value recommended by Japan Society for	:	Not specified
Occupational Health (1998)		
• OSHA PEL TWA	:	Not specified

Engineering Controls

• When particles of this reference material are generated, hermetically seal the particle generation source and install local exhaust ventilation equipment.

Personal Protective Equipment (PPE)

 \cdot dust-protective mask, protective gloves and eye protector

9. Physical and Chemical Properties

• Appearance, etc. : Powder



• Color	:	White-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	:	No data
density(Air=1)		
• Specific gravity or bulk	:	No data
specific gravity		
• Solubility	:	Some ingredients may be solved in water.
• <i>n</i> -Octanol/water partition	:	No data
coefficient (Log Po/w)		
• Auto-ignition temperature	:	No data

10. Stability and Reactivity

 \diamondsuit Stability

• Stable in normal conditions

 \bigcirc Reactivity

- No data available
- $\diamondsuit \mathrm{Conditions}$ to avoid
- Sunlight and moisture
- \bigcirc Hazardous Decomposition Products

 \cdot No data available

11. Toxicological Information

Serious Eye Damage/	May irritate eyes
Eye Irritation	
Respiratory	Cause disorders due to accumulation in respiratory organs
Sensitization	when particles of this reference material are inhaled in large
	amounts

12. Ecological Information

Persistence and Degradability

- No data available
- **Bioaccumulative Potential**

 \cdot No data available

Ecotoxicity

 \cdot No data available

13. Disposal Considerations

 $\boldsymbol{\cdot}$ Dispose this reference material in accordance with relevant legislation and local government ordinances.



• Dispose empty containers after completely remove their contents.

14. Transport Information

UN Number	:	Not applicable
UN Classification	:	Not applicable
Shipping Name	:	_
Packing Group	:	_
ICAO/IATA	:	_
Marine Pollutant	:	_
Precautions	:	Transport this reference material carefully while keeping it away from direct sunlight and paying due attention to avoid dropping and turning over etc.

15. Regulatory Information

 $\boldsymbol{\cdot}$ No applicable laws and regulations

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.