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 (NMIJ)
Person in Charge	:	Person in Charge of Certified Reference Materials
Telephone No.	:	+81-29-861-4059 Fax No. : +81-29-861-4009
Emergency Contact	:	Same as above
		Prepared on : November 24, 2010
		Revised on : August 31, 2022
		Reference No : 7505001
Identity of Substance/Mixture	:	Certified Reference Material NMIJ CRM 7505-a Trace Elements in Tea Leaf Powder
Recommended Use of the Chemical and Restriction on Use	:	This reference material can be used for evaluating or validating analytical methods and instruments used for the determination of the elements listed below, arsenobetaine and methylmercury in fish tissue or similar matrices. 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	:	Not classifiable
Signal Work	:	-
Hazard and Toxicity	:	-
Other Hazard Toxicity	:	If inhaled in a large amount, accumulation in respiratory organ causes impairment.
Precautionary Statement	:	[Preventive Measures] Low in hazard when handled normally. [Response] If inhaled the dust in a large amount, seek advice from a respiratory specialist. If in eyes, rinse with a large amount of water and seek medical advice if necessary. [Storage] Protect from light and store in a clean place at room temperature [Disposal] Outsource to a professional industrial waste disposal contractor licensed by the prefectural governor.

Hazardous and toxic properties not specified in the above are neither the object of the classification nor classifiable

3. Composition/Information on Ingredients

Single or Compound Product : Single product
Chemical name : Tea leaf
Synonym : -
Chemical formula : -
Molecular weight : -
CAS number : -
Content : 100 %
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 : -

This CRM contains minor elements shown below;
Ca, K, Mg, P, Al, B, Ba, Cd, Cu, Fe, Li, Mn, Na, Ni, Pb, Rb, Sr, Zn, Co.
The concentration of these elements are shown in the tables below;

Element	Mass Fraction (%)
Ca	0.450
K	1.59
Mg	0.301
P	0.339

Element	Mass Fractin (mg/kg)
Al	709
B	19.7
Ba	20.4
Cd	0.0139
Cu	19.2
Fe	82.1
Li	0.57
Mn	760
Na	7.2
Ni	5.5
Pb	0.094
Rb	7.2
Sr	9.0
Zn	22.7

Element	Mass Fraction (mg/kg)
Co	0.257

4. First-aid Measures

If in Eyes	:	Rinse well with clean water. Seek medical advice.
If on Skin	:	Rinse well with clean water. Take off the contaminated clothes, shoes, etc. Seek medical advice.
If Inhaled	:	Move to a fresh air, keep warm and rest. Seek medical advice
If swallowed	:	Wash the mouth well with water. Seek medical advice
Anticipated Acute and Delayed Symptoms	:	-
Measures to be taken to protect the person applying first aid	:	Use personal protective equipment.

5. Fire-fighting Measures

Extinguishing Media	:	Fire extinguishing media corresponding to the fire in the peripheral area
Specific Hazards at the Time of Fire	:	None
Specific Extinguishing Measures	:	Remove combustion sources away from the seat of the fire and extinguish with fire extinguishing agent. If possible, promptly transfer the container to safe area. If unable to transfer, cool down the periphery with water spray.
Protecting Fire-Fighting Personnel	:	Extinguishing activities on windward side, avoid inhaling toxic gases. Use protective equipment such as fire-resistant clothing, heat-resistant protective clothing, protective clothing, air-breathing apparatus, closed-circuit self-contained oxygen breathing apparatus, rubber gloves, rubber boots, etc.

6. Accidental Release Measures

Personal Precautions	:	Promptly remove ignition sources from the periphery. Have fire extinguishing equipment on hand in case of ignition.
Protective Equipment and Emergency Procedure	:	If released indoor, ventilate well until the treatment is completed. Use suitable protective equipment to protect the skin from airborne droplets, etc., and avoid inhaling dust and gas.
Environmental Precaution	:	—
Recovery, Neutralization	:	—
Measures to Prevent Secondary Accident	:	Collect as much as possible in a container by a method that can prevent the dust to scatter.

7. Handling and Storage

Handling
・Avoid contact with eyes
・Avoid inhaling dust
・Use of the material only for research purposes.
Storage
・Avoid exposure to light and store in a clean place at room temperature.
Safe Packing Material : Glass
※Refer to the Authentication regarding the precautions for appropriate storage condition and the usage as reference material

8. Exposure Controls/Personal Protection

Administrative Level
Not established
Occupational Exposure Levels (Substance Name)
・ACGIH TLV-TWA(2000) : Not established
・Japan Society for Occupational Health Recommended Reference Value (1998) : Not established
・OSHA PEL TWA : Not established
Facility Engineering
・When dust forms, seal the source and install local exhaust ventilation system.
Protective Equipment
・Dust protective mask, protective gloves, safety eyeglasses.

9. Physical and Chemical Properties

・Appearance, etc.	:	Powder
・Color	:	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	:	Part of the component possible to dissolve in water
・*n*-Octanol/water partition coefficient (Log Po/w)	:	No data
・Auto-ignition temperature	:	No data

10. Stability and Reactivity

◇Stability

・Stable under normal condition

◇Reactivity

・No data available

◇Conditions to Avoid

・Sunlight, humidity

◇Hazardous Decomposition Product

・No data available

11. Toxicological Information

Severe Damage to Eyes ／Eye Irritation	Possible irritation
Respiratory Sensitization	If inhaled in a large amount, the accumulation in respiratory organ causes impairment.

12. Ecological Information

Degradation, Concentration

・No data available

Bioaccumulation

・No data available

Ecotoxicity

・No data available

13. Disposal Considerations

・Dispose of according to the related laws and regulations and the ordinances of the local authorities.

・Remove the content material completely and empty the used container before disposing of the container,

14. Transport Information

UN Number	:	Not applicable
UN Classification	:	Not applicable
Material Name	:	-
Container Grade	:	-
ICAO/IATA	:	-
Marine Pollutant	:	-
Precautions	:	Avoid direct sunlight, prevent the container from falling, turnover, etc. and transfer with caution.

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.