

# 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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 Reference No : 7504001

Identity of Substance/Mixture : Certified Reference Material NMIJ CRM 7504-a  
 Pesticides in Unpolished Rice  
 Recommended Use of the Chemical and Restriction on Use : This reference material can be used for controlling the precision of analysis or for confirming the validity of analytical methods or instruments during analysis of pesticides (Fenitrothion and Etofenprox) in unpolished rice samples and similar materials.  
 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 : Unclassifiable  
 GHS label element : -  
 Signal word : -  
 Hazard and toxicity: -  
 Other hazard and toxicity : If inhaled in a large amount, the 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, get assistance of respiratory specialist.  
 If in eyes, rinse with a large amount of water and get medical assistance if necessary.  
 [Storage]  
 Store in a clean place protected from light at the temperature of about -30 °C  
 [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

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### 3. Composition/Information on Ingredients

Single or compound : Compound product  
product  
Chemical name : Unpolished rice powder  
Synonym : -  
Content : Over 99 %  
Chemical or structural formula : -  
Molecular weight : -  
Reference Number in : Act on the Evaluation of Chemical Substances and Regulation of  
Gazetted List in Japan : Their Manufacture, etc. : -  
Industrial Safety and Health Act : -

Ingredient 1  
Chemical name : Fenitrothion  
Synonym : -  
Chemical formula :  $C_9H_{12}NO_5PS$   
Molecular weight : 277.23  
CAS number : 122-14-5  
Content : Approximately 0.1 mg/kg  
Reference Number in : Act on the Evaluation of Chemical Substances and Regulation of  
Gazetted List in Japan : Their Manufacture, etc. : 3-2616  
Industrial Safety and Health Act : Published

Ingredient 2  
Chemical name : Ethofenprox  
Synonym : -  
Chemical formula :  $C_{25}H_{28}O_3$   
Molecular weight : 376.49  
CAS number : 80844-07-1  
Content : Approximately 0.2 mg/kg  
Reference Number in : Act on the Evaluation of Chemical Substances and Regulation of  
Gazetted List in Japan : Their Manufacture, etc. : 3-3981  
Industrial Safety and Health Act : 4-14-178

Ingredient 3  
Chemical name : Fthalide  
Synonym : -  
Chemical formula :  $C_8H_2Cl_4O_2$

Molecular weight : 271.91  
 CAS number : 27355-22-2  
 Content : Approximately 0.1 mg/kg  
 Reference Number in : Act on the Evaluation of Chemical Substances and Regulation of  
 Gazetted List in Japan Their Manufacture, etc. : -  
 Industrial Safety and Health Act : -

Ingredient 4

Chemical name : Isoprothiolane  
 Synonym : -  
 Chemical formula : C<sub>12</sub>H<sub>18</sub>O<sub>4</sub>S<sub>2</sub>  
 Molecular weight : 290.39  
 CAS number : 50512-35-1  
 Content : Approximately 1.3 mg/kg  
 Reference Number in : Act on the Evaluation of Chemical Substances and Regulation of  
 Gazetted List in Japan Their Manufacture, etc. : -  
 Industrial Safety and Health Act : -

#### 4. First-aid Measures

- ◇If in eye
  1. Rinse well with clean water
  2. Get medical assistance
- ◇If on skin
  1. Rinse well with clean water
- ◇If inhaled
  1. Move to a fresh air, rest and keep warm.
  2. Get medical assistance
- ◇If swallowed
  1. Wash the mouth well with water
- ◇Measures to be taken to protect the person applying first aid
  - Use personal protective equipment.

#### 5. Fire-fighting Measures

Extinguishing : Fire extinguishing media corresponding to the fire in the  
 media surrounding area.  
 Specific hazards at : None  
 the time of fire  
 Specific : Remove combustion sources away from the seat of the fire and  
 extinguishing : extinguish with fire extinguishing agent. If possible, promptly  
 measures : transfer the container to safe area. If unable to transfer, cool down  
 the periphery with water spray.  
 Protecting fire- : Use protective equipment such as fire-resistant clothing, heat-  
 fighting personnel : resistant protective clothing, protective clothing, air-breathing  
 apparatus, closed-circuit self-contained oxygen breathing

apparatus, rubber gloves, rubber boots, etc.

## 6. Accidental Release Measures

- Collect as much as possible in an empty container by a method that can prevent the dust to scatter

## 7. Handling and Storage

Handling

- Avoid contacting with eyes
- Avoid inhaling the dust
- This material should be used only for study purposes

Storage

- Store in a clean place protected from light at the temperature of about  $-30\text{ }^{\circ}\text{C}$ .

## 8. Exposure Controls/Personal Protection

Considerations for safety management

Not established

Administrative level

Not established

Occupational exposure limit

- ACGIH TLV-TWA : Not established
- Japan Society for Occupational Health Recommended Reference : Not established

Facility engineering

- In case of exuding dust, seal the source and install local ventilation system.

Protective equipment

- Dust protecting mask, protective gloves, safety eyeglasses

## 9. Physical and Chemical Properties

- Appearance, etc. : Powder
- Color : Milky white
- 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 : May dissolve in water.
- *n*-Octanol/water partition : No data

coefficient (Log Po/w)

•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 products

•No data available

## 11. Toxicological Information

Skin corrosivity/irritation :None

Severe damage to eyes/ eye irritation :Irritation possible

Respiration organ sensitivity :If inhaled in a large amount, the accumulation in respiratory organ causes impairment.

## 12. Ecological Information

Degradability, concentration

•No data available

Bioaccumulation

•No data available

Ecotoxicity

•No data available

## 13. Disposal Considerations

- Disposal should be according to the related laws and regulations as well as to the ordinances of the local government.
- Before disposing the empty container, the content should be completely discarded,

## 14. Transport Information

UN Number : Not applicable

UN : Not applicable

Classification

Material name : —

Container : —

grade

ICAO/IATA : —

Marine : —

pollutant

Precautions : Prevent the container from dropping, falling, etc. and transport carefully.

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## 15. Regulatory Information

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.**
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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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