

# 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  
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 Emergency Contact : Same as above

Prepared on : March 21, 2013

Revised on : March 31, 2017

ID Number : 7509001

Identity of Substance/Mixture : Certified reference material: NMIJ CRM 7509-a  
 Pesticides in Soybean  
 Recommended Use of the Chemical and Restriction on Use : This reference material can be used, in quantification of pesticides in soybean and similar samples, for quality control of analysis and validation of analysis method/equipment.  
 Do not use this reference material for other purposes than testing/research.

## 2. Hazards Identification

GHS Classification : Not classifiable  
 GHS Label Element : Not classifiable  
 Signal Word : -  
 Hazards Statement : -  
 Other Hazards Statement: Inhalation of a large amount of dust will cause damage due to accumulation in respiratory organ.  
 Precautionary Statement : [Precaution]  
 Few hazards in normal conditions of handling.  
 [Action]  
 If dust is inhaled in large amount: Get medical advice/attention of respiratory doctor/physician.  
 If in eyes: Rinse with plenty of clean water. Get medical advice/attention as necessary.  
 [Storage]  
 Store in a light-shielded environment at temperature of about -30 °C.  
 [Disposal]  
 Entrust disposal of this reference material to a professional waste disposal company licensed by prefectural governor.

The other hazards than the above do not result in classification or are not classifiable.

### 3. Composition/Information on Ingredients

Substance/Mixture : Substance  
Generic Name : Soybean

#### Component 1

Chemical name : Soy bean powder  
Synonym : -  
Chemical or structural formula : -  
Molecular weight : -  
CAS number : -  
Content : -  
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 : -

#### Component 2

Chemical name : Diazinon  
Synonym : *O,O*-diethyl-*O*-(2-isopropyl-6-methyl-4-pyrimidinyl) thionophosphate  
Chemical or structural formula :  $C_{12}H_{21}N_2O_3PS$   
Molecular weight : 304.34  
CAS number : 333-41-5  
Content : 21.7µg/kg  
Reference Number in Gazetted List in Japan : Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. : (5)-923  
Industrial Safety and Health Act : Published

#### Component 3

Chemical name : Fenitrothion  
Synonym : (*O,O*-dimethyl-*O*-(3-methyl-4-nitrophenyl) thionophosphate)  
Chemical or structural formula :  $C_9H_{12}NO_5PS$   
Molecular weight : 277.23  
CAS number : 122-14-5  
Content : 88µg/kg  
Reference Number in Gazetted List in Japan : Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. : (3)-2616  
Industrial Safety and Health Act : 4-9-232

#### Component 4

Chemical name : Chlorpyrifos  
 Synonym : *O,O*-diethyl-*O*-3,5,6-trichloro-2-pyridyl phosphorothioate  
 Chemical or structural formula : C<sub>9</sub>H<sub>11</sub>Cl<sub>3</sub>NO<sub>3</sub>PS  
 Molecular weight : 350.58  
 CAS number : 2921-88-2  
 Content : 11.1µg/kg  
 Reference Number in Gazetted List in Japan : Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. : (5)-3724  
 Industrial Safety and Health Act : 8-1-1042

Component 5

Chemical name : Permethrin  
 Synonym : 3-phenoxybenzyl=3-(2,2-dichlorovinyl)-2,2-dimethyl cyclopropane carboxylate  
 Chemical or structural formula : C<sub>21</sub>H<sub>20</sub>Cl<sub>2</sub>O<sub>3</sub>  
 Molecular weight : 391.29  
 CAS number : 52645-53-1  
 Content : 20.1µg/kg  
 Reference Number in Gazetted List in Japan : Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. : (3)-4010  
 Industrial Safety and Health Act : Published

#### 4. First-aid Measures

If inhaled : Remove victim to fresh air and keep him/her warm and at rest. Get medical advice/attention.  
 If on skin : Rinse skin thoroughly with clean water. Remove/Take off contaminated clothing, shoes, etc. Get medical advice/attention.  
 If in eyes : Rinse thoroughly with clean water. Get medical advice/attention.  
 If swallowed : Rinse mouth thoroughly with water. Call a doctor/physician.  
 Expected Acute and Delayed Symptom : -  
 Most Critical : -  
 Characteristic and Symptom : -  
 Protection of First-Aid Responder : Use personal protective equipment.

#### 5. Fire-fighting Measures

Extinguishing Media : Extinguishing media appropriate for surrounding facilities  
 Fire-Specific Hazards : None  
 Specific Fire-Fighting Method : Eliminate ignition sources at the origin of a fire and put out fire by using extinguishing media. Remove movable containers

promptly to a safe place. In the case of immovable containers, cool their surroundings with sprayed water.

Protection of Fire-Fighters : Carry out fire-fighting from the windward in order to avoid breathing hazardous gas. Use personal protective equipment such as fireproof clothing, heat-resistant clothing, protective clothing, compressed air open-circuit self-contained breathing apparatus, compressed oxygen closed-circuit self-contained breathing apparatus, rubber gloves and rubber boots.

## 6. Accidental Release Measures

Personal Precaution : Remove potential ignition sources from the vicinity promptly.

Personal Protective Equipment and Emergency Procedures : Get fire-fighting kit ready to be prepared for ignition. Ventilate the affected areas thoroughly, if it is in an indoor environment, until the clean-up operation is completed. 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 : -

Prevention of Secondary Disaster : Collect spillage in empty containers as much as possible by using a method which prevents dust from scattering.

## 7. Handling and Storage Precautions

### Handling

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

### Storage

- Store in a light-shielded clean environment at temperature of about  $-30\text{ }^{\circ}\text{C}$ .

Safe Container : Glass

Packaging Material

※See the certificate for the details of appropriate storage conditions and precautions for safe handling as a reference material.

## 8. Exposure Controls/Personal Protection

### Threshold Limit Value

Not specified

### Permissible Concentration

- ACGIH TLV-TWA : Not specified
- Value recommended by Japan Society for Occupational Health : Not specified
- OSHA PEL TWA : Not specified

### Engineering Controls

- Keep container tightly closed and use local ventilation system if vapor is generated.

Personal Protective Equipment (PPE)

- Dust mask, Protective gloves, Eye protector

## 9. Physical and Chemical Properties

- Appearance, etc. : Powder
- Color : Light yellow
- 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 soluble in water
- *n*-Octanol/water partition coefficient (Log Po/w) : No data
- Auto-ignition temperature : No data

## 10. Stability and Reactivity

- ◇Chemical Stability
  - Stable under normal conditions
- ◇Reactivity
  - No data available
- ◇Conditions to Avoid
  - Sunlight, heat
- ◇Incompatible Materials
  - No data available
- ◇Hazardous Decomposition Products
  - No data available

## 11. Toxicological Information

- Serious Eye Damage/ Eye Irritation : May cause irritation
- Respiratory Sensitization : Inhalation of a large amount of dust will cause damage due to accumulation in respiratory organ.

## 12. Ecological Information

- Ecotoxicity
  - No data available
- Persistence and Degradability

- No data available

#### Bioaccumulative Potential

- No data available

#### Mobility in Soil

- No data available
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### 13. Disposal Considerations

- Dispose of this reference material in accordance with applicable legislation and local government ordinance.
  - Dispose of containers after thoroughly emptying them.
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### 14. Transport Information

UN Number : Not applicable

UN Classification : Not applicable

Shipping Name : —

Packing Group : —

Marine Pollutant : —

Pollutant

Precautions : Transport this reference material carefully while keeping it away from direct sunlight and taking precautions against falling, overturning, etc.

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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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