

Safety Data Sheet



1. Identification of	ťth	e 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 : May13, 2011
		Revised on : March 31, 2017
		Reference No : 7507001
Identity of	:	Certified Reference Material NMIJ CRM 7507-a
Substance/Mixture		Green onion powder (Pesticides in Green Onion)
Recommended Use of the Chemical and Restriction on Use	:	The intended use for this CRM is confirming the validity of analytical methods or instruments during analysis of pesticides (diazinon, fenitrothion, permethrin, cypermethrin, and etofenprox) in green onion samples and similar materials. Do not use this reference material for other purposes than testing/research.

2. Hazards Identifi	cation
GHS :	Not classifiable
classification	
GHS label element :	Not classifiable
Signal Word	-
Hazard and toxicity	: -
Other hazard and :	If inhaled in a large amount, the accumulation in respiratory organ
toxicity	causes impairment.
Precautionary :	[Preventive measures]
statement	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]
	Protect from light and at the temperature of about -30 °C
	[Disposal]
	Outsource to a professional industrial waste disposal contractor
	licensed by the prefectural governor.

+:**c**: லப 4~ T.4.



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

3. Composition/Information on Ingredients

Single substance or mixture	:	Mixture
Chemical name	:	Green onion
Synonym	:	-
Chemical formula	:	-
Molecular weight		-
CAS number		-
Content		>99 %
Reference Number in	:	Act on the Evaluation of Chemical Substances and
Gazetted List in Japan		Regulation of Their Manufacture, etc. :-
		Industrial Safety and Health Act :-

This CRM contains ingredients shown below

Ingredient 1				
Chemical name		:	Diazinon	
Synonym		:	(<i>O</i> , <i>O</i> diethyl <i>O</i> ·2-isopropyl-6-methylpyrimidin-4-yl	
			phosphorothioate)	
Chemical formula		:	$\mathrm{C_{12}H_{21}N_2O_3PS}$	
Molecular weight		:	304.34	
CAS number		:	333-41-5	
Content		:	0.9 mg/kg	
Reference Number	in	:	Act on the Evaluation of Chemical Substances and	
Gazetted List in Japan			Regulation of Their Manufacture, etc. 5-923	
			Industrial Safety and Health Act : Published	
Ingredient 2				
Chemical name		:	Fenitrothion	
Synonym		:	(<i>O</i> , <i>O</i> dimethyl- <i>O</i> 4-nitro- <i>m</i> -tolyl phosphorothioate)	
Chemical formula		:	$C_9H_{12}NO_5PS$	
Molecular weight		:	277.23	
CAS number		:	122-14-5	
Content		:	4.41 mg/kg	
	in	:	The on the literatuation of chemical pubblances and	
Gazetted List in Japan			Regulation of Their Manufacture, etc. 3-2616	
			Industrial Safety and Health Act : Published	
Ingredient 3				
Chemical name		:	Permethrin	
Synonym		: (3-phenoxybenzyl(1 <i>RS</i> ,3 <i>RS</i> ,1 <i>RS</i> ,3 <i>RS</i>)-3-(2,2-dichlorovin		
			2,2- dimethylcyclopropanecarboxylate)	
Chemical formula				
Molecular weight		:	391.29	



CAS number Content Reference Number Gazetted List in Japan		 52645-53-1 7.14 mg/kg Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. : 3-4010 Industrial Safety and Health Act : Published
Ingredient 4 Chemical name Synonym		Cypermethrin ((<i>RS</i>)-α-cyano-3-phenoxybenzyl(1 <i>RS</i> ,3 <i>RS</i>)-(1 <i>RS</i> ,3 <i>RS</i>)-3-(2,2 -dichlorovinyl)- 2,2-dimethylcyclopropanecarboxylate)
Chemical formula Molecular weight CAS number Content Reference Number Gazetted List in Japan	in	 C₂₂H₁₉C₁₂NO₃ 416.3 52315-07-8 3.98 mg/kg Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. :- Industrial Safety and Health Act :-
Ingredient 5 Chemical name Synonym Chemical formula Molecular weight CAS number Content Reference Number Gazetted List in Japan		 Etofenprox (2-(4-ethoxyphenyl)-2-methylpropyl 3-phenoxybenzyl ether) C₂₅H₂₈O₃ 376.49 80844-07-1 13.93 mg/kg Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. : 3-3981 Industrial Safety and Health Act : 4-14-178

4. First-aid Measures

If in eye If on skin		Rinse well with clean water. Get medical assistance Rinse well with clean water. Take off the contaminated clothing and shoes, etc. Get medical assistance
If inhaled If swallowed Anticipated acute and	:	Move to a fresh air, rest and keep warm. Get medical assistance. Rinse well inside the mouth with water. Get medical assistance
delayed symptoms Measures to protect the person applying emergency first aid:	:	Use personal protective equipment.

5. Fire-fighting Measures

Extinguishing media : Fire extinguishing media corresponding to the fire in the



		surrounding area
Specific hazards at the time of fire	:	None
Specific extinguishing measures	:	Remove combustion sources away from 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 gas. 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	emove ignition sources nearby prom quipment close at hand in case of ign	
Protective equipment and emergency procedure	in the indoor, ventilate well until th ompletely. Use appropriate protective ne skin from contact with airborne du haling dust and gas.	e equipment to prevent
Environmental		
precaution		
Recovery neutralization		
Measures to prevent secondary accident	ollect as much as possible in an emp that can prevent the dust to scatter	ty container by a method

7. Handling and Storage

Handling	:	Avoid contacting with eyes. Avoid inhaling the dust. This material should be used only for study purposes.
Storage Material for safe	:	Protect from light, at the temperature of about −30 °C. Glass
packing:	•	

8. Exposure Controls/Personal Protection

Administrative levels		
Not established		
Occupational exposure limit (Substance	e nar	ne)
•ACGIH TLV-TWA (2000)	:	Not established
•Japan Society for Occupational	:	Not established
Health Recommended Reference		
(1998)		
•OSHA PEL TWA	:	Not established
NIMIT ODM 5505		



Facility engineering

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

Protective equipment

 $\cdot {\rm Dust}$ protecting mask, protective gloves, safety eyeglasses

9. Physical and Chemical properties

•Appearance, etc.	:	Powder
•Color	:	Green
•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	:	A part of the constituent may dissolve in water.
• <i>n</i> -Octanol/water partition coefficient (Log Po/w)	:	No data
•Auto-ignition temperature	:	No data

10. Stability and Reactivity

\diamondsuit Stability	
•Stable under normal condition	
\diamondsuit Reactivity	
•No data available	
\diamondsuit Conditions to avoid	
•Sunlight, humidity	
\diamondsuit Hazardous decomposition products	
•No data available	

11. Toxicological Information

Severe damage to eyes/	Irritation possible
eye irritation	
Respiration organ	If inhaled in a large amount, the accumulation in respiratory
sensitivity	organ causes impairment.

12. Ecological Information

Degradability, concentration •No data available
Bioaccumulation
•No data available
NINTL ODM FFOF



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	: Avoid direct sunlight. Prevent the container from dropping, falling, etc.
	and transport carefully.

15. Regulatory Information

•Not applicable

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.