

Safety Data Sheet



1. Identification of	the S	Substance/Mixture and t	the Supplier
Supplier		ational Institute of Advance JIST)	ed Industrial Science and Technology
Address	: 1-	3-1, Kasumigaseki, Chiyod	a, Tokyo, Japan
Office in Charge	: Re	eference Materials Office, O	Center for Quality Management of
	Μ	etrology, National Metrolog	gy Institute of Japan (NMIJ)
Person in Charge	: Pe	erson in Charge of Certified	l Reference Materials
Telephone No.	: +8	81-29-861-4059	Fax No. : +81-29-861-4009
Emergency Contact	: Sa	ame as above	
			Prepared on 🗄 May13, 2011
			Revised on : March 31, 2017
			ID Number : 7508001
Identity of	: Ce	ertified Reference Material	NMIJ CRM 7508-a
Substance/Mixture	Ca	abbage powder (Multi resid	lue pesticide analysis)
Recommended Use of the Chemical and Restriction on Use	ar in Cl m	nalysis or confirming the struments during ana hlorpyrifos and Permethr	be used for controlling the precision of e validity of analytical methods or lysis of pesticides (Fenitrothion, in) in cabbage samples and similar reference material for other purposes

2. Hazards Identi	fic	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.

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

3. Composition/Information on Ingredients		
Substance or mixture	: Mixture	
Generic Name	: Cabbage	
Component 1		
Chemical name	: Cabbage powder	
Synonym	: -	
Chemical or structural formula	: -	
Molecular weight	: -	
CAS number	: -	
Content	:	
Reference Number in Gazetted	: Act on the Evaluation of Chemical Substances and	
List in Japan	Regulation of Their Manufacture, etc. :-	
	Industrial Safety and Health Act :-	
Component 2		
Chemical name	: Fenitrothion	
Synonym	: (Thiophosphoric acid <i>O</i> , <i>O</i> -dimethyl- <i>O</i> (3-methyl-4-	
	nitrophenyl))	
Chemical or structural formula	$: C_9 H_{12} NO_5 PS$	
Molecular weight	: 277.23	
CAS number	: 122-14-5	
Content D. G. M.	: 2.41 mg/kg	
Reference Number in Gazetted	: Act on the Evaluation of Chemical Substances and	
List in Japan	Regulation of Their Manufacture, etc. : (3)-2616 Industrial Safety and Health Act : 4-9-232	
	Industrial Safety and Health Act : 4-9-232	
Component 3		
Chemical name	: Chlorpyrifos	
Synonym	: <i>O</i> , <i>O</i> -Diethyl- <i>O</i> -(3,5,6-trichloro-2-pyridyl)phosphorothioate	
Chemical or structural formula	: C9H11Cl3NO3PS	
Molecular weight	: 350.58	
CAS number	: 2921-88-2	
Content	: 6.9 mg/kg	
Reference Number in Gazetted	: Act on the Evaluation of Chemical Substances and	
List in Japan	Regulation of Their Manufacture, etc. : (5)-3724	
-	: Industrial Safety and Health Act : 8-1-1042	
0		
Component 4	. Demostherin	
Chemical name	: Permethrin	
Synonym	: (3-phenoxybenzyl=3-(2,2-dichlorovinyl)-2,2-dimethylcyclopr	



	opanecarboxylate)
Chemical or structural formula	: $C_{21}H_{20}Cl_2O_3$
Molecular weight	: 391.29
CAS number	$: 52645 \cdot 53 \cdot 1$
Content	: 5.75 mg/kg
Reference Number in Gazetted	: Act on the Evaluation of Chemical Substances and
List in Japan	Regulation of Their Manufacture, etc. : (3)-4010
	: Industrial Safety and Health Act : Published

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		Move to a fresh air, rest and keep warm. Get medical assistance. Rinse well inside the mouth with water. Get medical assistance
Anticipated acute and delayed symptoms	:	-
Measures to protect the person applying emergency first aid:	:	Use personal protective equipment.

5. Fire-fighting Measures

0 0		
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	:	Remove ignition sources nearby promptly. Keep extinguishing
		equipment close at hand in case of ignition.
Protective equipment	:	If in the indoor, ventilate well until the spill or leak is treated
and emergency		completely. Use appropriate protective equipment to prevent the
procedure		skin from contact with airborne droplets or to protect from
		inhaling dust and gas.



ventilation system.

Environmental	: -
precaution	
Recovery	: -
neutralization	
Measures to prevent	: Collect as much as possible in an empty container by a method
secondary accident	that can prevent the dust to scatter
secondary accident	that can prevent the dust to scatter

7. Handling and Storage

:	Avoid contacting with eyes. Avoid inhaling the dust.
	This material should be used only for study purposes.
:	Protect from light, at the temperature of about -30 °C.
:	Glass
	:

8. Exposure Controls/Personal Protection

Administrative levels		
Not established		
Occupational exposure limit (S	ubs	stance name)
•ACGIH TLV-TWA (2000)	:	Not established
•Japan Society for	:	Not established
Occupational Health		
Recommended Reference		
(1998)		
•OSHA PEL TWA	:	Not established
Facility engineering		
•In case of exuding dust, seal t	he	source and install local
Protective equipment		

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

9. Physical and Chemical properties

•Appearance, etc.	:	Powder
• Color	:	Green
•Odor	:	No data
۰pH	:	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	:	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

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 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

 $\boldsymbol{\cdot} No$ 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.