

MATERIAL SAFETY DATA SHEET

Introductory Details

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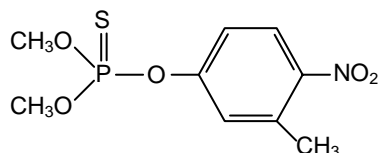
Date of preparation : 24 May 2004

Date revised : 12 June 2008

SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Details

Product Name : Fenitrothion 40% WP
Trade Name : SUMITHION 40 WP
Chemical Name : O,O-Dimethyl-O-(3-methyl-4-nitrophenyl) phosphorothioate
Chemical Formula : $C_6H_3OPS(OCH_3)_2NO_2CH_3$
Molar Mass : 277
Chemical Family : Organophosphorus
Manufacturer's Code : -
Use : Insecticide
Structural Formula :



Fenitrothion

1.2 Company Identification

Manufacturer

Name and Address : Agricultural Chemicals (M) Sdn. Bhd.
962, Lorong Perusahaan 8, Taman Perindustrian Perai,
13600 Perai, Pulau Pinang, Malaysia.
Telephone Number : 604-390 7988
Emergency Telephone Number : 604-390 7988

1.3 Contact Point

Designation : Ms. Cheong Wai Ching, Product Support Manager /
En. Ahmad Labib bin Yusof, Administrative Assistant
Tel. No. : 604-390 7988

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SECTION 2 : COMPOSITION/INFORMATION ON INGREDIENT

Chemical Name	CAS No.	Proportion	Exposure Limit	Toxicity Data
O,O-Dimethyl-O-(3-methyl-4-nitrophenyl) phosphorothioate	122-14-5	40%	No data available	Refer to Section 11
Surfactant	-	< 5%		
Carrier & Others	-	Balance		

SECTION 3 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Off white wettable powder
Odour	: Characteristic odour
Solubility	: Dispersible in water
Boiling Point (technical)	: 140 - 145°C at 0.1 mmHg with decomposition
Melting Point	: No data available
Vapour Pressure (technical)	: 1.37×10^{-4} mmHg at 20°C
Percentage Volatiles	: No data available
Evaporation Rate	: No data available
Vapour Density	: No data available
Specific Gravity	: No data available
Flash Point	: Not applicable
Autoignition temperature	: No data available
Flammable Limit (%)	: No data available

SECTION 4 : HAZARD IDENTIFICATION

Harmful by inhalation and in contact with skin

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SECTION 5 : FIRST AID MEASURES

- Ingestion : Induce vomiting after drinking water. Get prompt medical attention. If patient is unconscious, DO NOT induce vomiting.
- Eye contact : Immediately flush with plenty of water for at least 15 minutes. Get medical attention.
- Skin contact : Remove contaminated clothing and wash skin thoroughly with soap and water.
- Inhalation : Remove victim to fresh air. Get medical attention.
- Notes to physician :
- Poisoning symptoms : Perspiration, dizziness, headache, nausea, vomiting, blurred vision, salivation, diarrhoea, abdominal cramps, respiratory difficulties, muscular fibrillation.
- Medical treatment : Inject atropine sulphate (2-4 mg) subcutaneously or intravenously. Repeat every 30 minutes until patient is fully atropinised then administer pralidoxime (1g) intramuscularly, if necessary.
Other antidote : PAM, 2-PAMCl, 2-PAMM

SECTION 6 : FIRE FIGHTING MEASURES

- Extinguishing Media : CO₂, dry chemical powder.
- Fire fighting instruction : Fire fighters should wear full-faced self-contained breathing apparatus and protective clothing.
- Special hazards : No data available

SECTION 7 : ACCIDENTAL RELEASE MEASURE

Leak and/or Spill :

Wear protective clothing as indicated in Section 8. Evacuate non essential personnel. Collect the spill into waste container for disposal. Wash the contaminated area with a little water and detergent. Adsorb with inert material such as clay or earth. Collect into the same container for disposal. Prevent the spillage from entering local drainage system.

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SECTION 8 : HANDLING AND STORAGE

Handling : Read the label before use. Wear pesticide respiratory masks, protective gloves and clothing while handling. After handling, wash thoroughly with soap and water before eating, drinking or smoking and change to clean clothing.

Storage : Keep in original container, tightly closed, in a cool dry and well-ventilated place, out of reach of children. Keep away from foodstuffs and animal feeds.

SECTION 9 : EXPOSURE CONTROL AND PERSONAL PROTECTION

Exposure limit : No data available

Engineering measures : Local exhaust ventilation

Personal protection : Wear pesticide respiratory masks, protective gloves and clothing.

SECTION 10 : STABILITY AND REACTIVITY

Conditions to avoid : Direct sunlight, heat and extreme temperature

Incompatible : Alkaline material

Decomposition Products : No data available

Hazardous polymerization : No data available

Stability : Stable under normal conditions.

SECTION 11 : TOXICOLOGICAL INFORMATION

Toxicity data :

Acute Oral LD₅₀ : (Rat) 2,800 mg/kg

Acute Dermal LD₅₀ : (Rat) > 5,000 mg/kg

Fenitrothion Technical

Acute Oral Toxicity LD₅₀ : (Rat) male 1,700 mg/kg

(Rat) female 1,720 mg/kg

Acute Dermal Toxicity LD₅₀ : (Rabbit) male 810 mg/kg

(Rabbit) female 840 mg/kg

Acute Inhalation LC₅₀(4h) : (Rat) > 2,210 mg/m³

Carcinogenicity : No data available

Reproductive effect : No data available

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Effects of overexposure :

Fenitrothion Technical

Eye Irritation : (Rabbit) Not irritant

Skin Irritation : (Rabbit) Not irritant

Sensitisation : (Guinea pig) Not sensitizer

Chronic effects :

Fenitrothion Technical

Muscular fibrillation, miosis, decrease of spontaneous activity, limb paralysis, ataxia, salivation, exophthalmos, lacrimation, urinary incontinence and irregular respiration. (Based on the results from acute oral toxicity study in rats 600 mg/kg dose)

Target organs : No data available

Medical conditions generally aggravated by exposure : No data available

SECTION 12 : ECOLOGICAL INFORMATION (TECHNICAL)

Mobility & Bioaccumulation : No data available

Biodegradability : No data available

Aquatic Toxicity TLm (48h) : (Carp) 4.1 ppm

SECTION 13 : DISPOSAL INFORMATION

Dispose of according to local regulation.

SECTION 14 : TRANSPORT INFORMATION

Follow the precaution indicated in the storage and handling section. Follow all regulations in your country.

SECTION 15 : REGULATORY INFORMATION

Pesticides Act : Class III

CPL Regulations : Class - Harmful

Risk Phrases : R20/21 Harmful by inhalation and in contact with skin

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Safety Phrases : S2 Keep out of reach of children
S13 Keep away from food, drink and animal feeding stuff
S36/37/39 Wear suitable protective clothing, gloves, eye/face protection.

SECTION 16 : OTHER INFORMATION

- Reference : (a) Material Safety Data Sheet - Sumithion 40 WP
Date : 2-1-2002
(b) Material Safety Data Sheet - Sumithion Technical
Date : 16 May 2008
(c) Guidelines for The Classification of Hazardous Chemicals, DOSH 1997
(d) Guidelines for The Formulation of A Chemical Safety Data Sheet, DOSH 1997
(e) Guidelines for Labelling of Hazardous Chemicals, DOSH 199

To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein.