

# MATERIAL SAFETY DATA SHEET

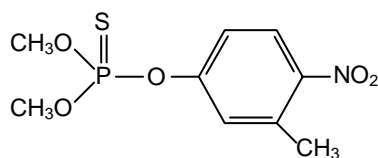
## Introductory Details

Page 1 of total 6  
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 82.3% ULV Liquid  
Trade Name : SUMITHION L-100  
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

# MATERIAL SAFETY DATA SHEET

## Introductory Details

Page 2 of total 6

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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	82.3%	No data available	Refer to Section 11
Solvent	-	Balance		

## SECTION 3 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Brownish liquid
Odour	: Characteristic odour
Solubility	: Not miscible with water
Boiling Point (technical)	: 140 - 145°C at 0.1 mmHg with decomposition
Melting Point	: No data available
Vapour Pressure (technical)	: $1.37 \times 10^{-4}$ mmHg at 20°C
Percentage Volatiles	: No data available
Evaporation Rate	: No data available
Vapour Density	: No data available
Specific Gravity	: 1.23 g/ml
Flash Point	: 76°C
Autoignition temperature	: No data available
Flammable Limit (%)	: No data available

## SECTION 4 : HAZARD IDENTIFICATION

Harmful by inhalation and in contact with skin.

# MATERIAL SAFETY DATA SHEET

## Introductory Details

Page 3 of total 6

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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 : CO<sub>2</sub>, 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. Eliminate ignition source. Ventilate area. Absorb spills with inert material such as clay, sand, earth, sawdust etc. and collect in a drum. Cover up the contaminated area with household detergent and small amount of water. Brush the slurry and spread inert absorbents on the slurry liquid and collect the absorbed material in a drum. Seal drum and dispose of. Do not contaminate water source.

## 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.



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## Introductory Details

Page 5 of total 6  
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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 II

CPL Regulations : Class - Harmful

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

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.

# MATERIAL SAFETY DATA SHEET

## Introductory Details

Page 6 of total 6

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## **SECTION 16 : OTHER INFORMATION**

Reference : (a) Material Safety Data Sheet - Sumithion L-100  
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 1997

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.