

# MATERIAL SAFETY DATA SHEET

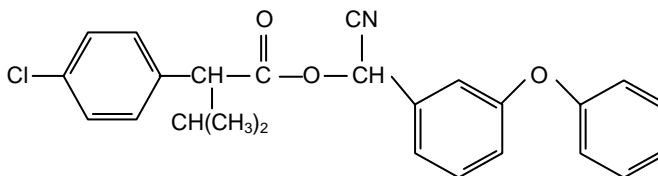
## Introductory Details

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Date of preparation : 14 May 2004  
Date revised : 4 October 2007

## SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product Details

Product Name : Fenvalerate 10% WP  
Trade Name : SUMICIDIN 10% WP  
Chemical Name : (RS)-"-cyano-3-phenoxybenzyl (RS)-2-(4-chlorophenyl)-3-methylbutyrate  
Chemical Formula : C<sub>25</sub>H<sub>22</sub>ClNO<sub>3</sub>  
Molar Mass : 419.9  
Chemical Family : Synthetic pyrethroid  
Manufacturer's Code : -  
Use : Insecticide  
Structural Formula :



*Fenvalerate*

### 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
(RS)-"-cyano-3-phenoxybenzyl (RS)-2-(4-chlorophenyl)-3-methylbutyrate	51630-58-1	10%	No data available	Refer to Section 11
Surfactant	-	< 5%		
Carrier & Others	-	Balance		

## SECTION 3 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Off white wettable powder  
Odour : Odourless  
Solubility : Dispersible in water  
Boiling Point (Technical) : Decomposition starts (about 249°C) before boiled  
Melting Point (Technical) : 39.5-53.7 °C (pure)  
Vapour Pressure (Technical) :  $2.8 \times 10^{-7}$  mmHg at 25°C  
Percentage Volatiles : Relatively non volatile  
Evaporation Rate : No data available  
Vapour Density : No data available  
Specific Gravity : No data available  
Flash Point (Technical) : 230°C  
Autoignition temperature (Technical) : 385 °C  
Flammable Limit (%) : No data available

## SECTION 4 : HAZARD IDENTIFICATION

Not classified as hazardous under CPL regulations.

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## **SECTION 5 : FIRST AID MEASURES**

Ingestion : Induce vomiting after drinking water. Get prompt medical attention.  
Eye contact : Flush with plenty of water.  
Skin contact : Remove contaminated clothing and wash skin thoroughly with soap and water.  
Inhalation : Remove patient to fresh air.  
Notes to physician :  
Poisoning symptoms : Vomiting may occur following ingestion. Central nervous system stimulation should be anticipated; symptoms may include nervousness and anxiety, salivation, tremors and convulsions. Piloerection, fasciculation, ataxia, etc. (Based on the results from acute toxicity study of technical on rats)  
Medical treatment : If swallowed, perform gastric lavage with caution. Administer barbiturates in small doses. Ensure that respiratory, cardiovascular and renal functions are maintained.

## **SECTION 6 : FIRE FIGHTING MEASURES**

Extinguishing Media : Dry powder, CO<sub>2</sub>  
Fire fighting instruction : Fire fighters should wear full-faced self-contained breathing apparatus and protective clothing.  
Large fires : form, waterspray.  
Special hazards : Toxic and corrosive products such as NO<sub>x</sub>, HCl, HCN, CO

## **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.

## **SECTION 8 : HANDLING AND STORAGE**

Handling : Read the label before use. Wear protective clothing, pesticide respirator masks and protective gloves.

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Storage : Keep in original containers, tightly closed, in a cool, dry and well-ventilated place.  
Do not store with animal feeds or foodstuff. Keep out of reach of children or farm animals.

## **SECTION 9 : EXPOSURE CONTROL AND PERSONAL PROTECTION (TECHNICAL)**

a. Exposure Limit : No data available  
b. Engineering measures : Local exhaust ventilation  
c. Personal protection : Wear pesticide respirator masks and protective gloves.

## **SECTION 10 : STABILITY AND REACTIVITY**

Conditions to avoid : Direct sunlight, heat and extreme temperature  
Incompatible : Alkaline material, oxidizing agents  
Decomposition Products : Hydrochloric acid (HCl), nitrous gases (NO<sub>x</sub>), hydrogen cyanide (HCN), carbon monoxide (CO)  
Hazardous polymerization : No data available  
Stability : Stable under normal conditions.

## **SECTION 11 : TOXICOLOGICAL INFORMATION (TECHNICAL)**

### Toxicity Data :

Acute Oral LD <sub>50</sub>	: (Rat)	451 mg/kg
Acute Dermal LD <sub>50</sub>	: (Rabbit)	2000 mg/kg
Inhalation LD <sub>50</sub>	: (Rat)	> 0.101 mg/L (3 hrs) (max. attainable conc.)
Eye Irritation	: Non-irritating	
Skin irritation	: Non-irritating	
Sensitization	: Not sensitizing	

Carcinogenicity : No data available.  
Reproductive Effect : No data available.  
Effects of overexposure : No data available.  
Chronic effects : No data available.  
Target organs : No data available.  
Medical Conditions Generally Aggravated by exposure : No data available.

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## **SECTION 12 : ECOLOGICAL INFORMATION (TECHNICAL)**

Mobility & Bioaccumulation : Fish studies indicate residues remain in 0-4 in. layer with half-life of 1-2 months. After 183 days, residues were at negligible or undetected levels. Confined and fields rotational crop data show residues likely to occur in root crops at intervals of < 9 months.

Biodegradability : No data available

Aquatic Toxicity : Very toxic to aquatic organism

LC<sub>50</sub> (96 h) : (Oncorhynchus mykiss) 0.22 µg/L

## **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 - Harmful

CPL Regulations : Not classified as hazardous

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## **SECTION 16 : OTHER INFORMATION**

- Reference : (a) Material Safety Data Sheet - Sumicidin 10% WP  
Date : 20-12-1994
- (b) Material Safety Data Sheet -Sumicidin Technical  
Date of preparation : 11<sup>th</sup> April 2002
- (c) Material Safety Data Sheet -Sumicidin Technical  
Sumitomo Chemical Company, Limited  
First issue : Jan. 16, 2001      Version 1  
MSDS No. : LATA04200Z10
- (d) Guidelines for The Classification of Hazardous Chemicals, DOSH 1997
- (e) Guidelines for The Formulation of A Chemical Safety Data Sheet, DOSH 1997
- (f) 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.