

MATERIAL SAFETY DATA SHEET

Introductory Details

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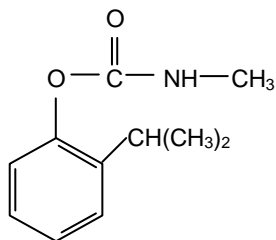
Date of preparation : 1 April 2004

Date revised : 11 June 2008

SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Details

Product Name : Isoprocarb 50% WP
Trade Name : MIPCIN 50 WP / MIPCIN WP
Chemical Name : 2-Isopropylphenyl-N-methylcarbamate
Chemical Formula : $C_{11}H_{15}NO_2$
Molar Mass : 193.2
Chemical Family : Carbamate compound
Manufacturer's Code : -
Use : Insecticide
Structural Formula :



Isoprocarb

1.2 Company Identification

Manufacturer

Name and Address : Agricultural Chemical (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
2-Isopropylphenyl-N-methylcarbamate	1897-45-6	50 %	Refer to Section 9	Refer to Section 11
Surfactant	-	< 5 %		
Others	-	Balance		

SECTION 3 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Off-white powder
Odour	: Characteristic odour
Solubility	: Dispersible in water
Boiling Point (technical)	: 128 - 129°C
Melting Point (technical)	: 96 - 97°C
Vapour Pressure (technical)	: 2.1 x 10 ⁻⁵ mmHg at 20°C 1 x 10 ⁻³ mmHg at 25°C
Percentage Volatiles	: No data available
Evaporation Rate	: No data available
Vapour Density	: No data available
Specific Gravity (technical)	: 0.62
Flash Point (technical)	: 156°C
Autoignition temperature	: No data available
Flammable Limit (%)	: No data available

SECTION 4 : HAZARD IDENTIFICATION

Irritating to eyes
May cause sensitisation by skin contact
Toxic in contact with skin and if swallowed

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SECTION 5 : FIRST AID MEASURES

- Ingestion : If swallowed, induce vomiting after drinking water. Get medical attention immediately. Never induce vomiting or give anything by mouth if patient is unconscious.
- Eye contact : Immediately 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 : Perspiration, headache, lethargic, blurred vision, nausea, vomiting, stomachache and muscle twitching.
- Medical treatment : Inject atropine sulphate (2 - 4mg) subcutaneously or intravenously. Repeat every 30 minutes until patient is fully atropinised.

SECTION 6 : FIRE FIGHTING MEASURES

- Extinguishing Media : Foam, CO₂, dry chemical.
- Fire fighting instruction : Fire fighters should wear full-faced self contained breathing apparatus and protective clothing.
- Special hazards : Not explosive

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 : Protective clothing should be changed at least daily. Persons exposed routinely to the active material should shower prior to leaving work each day.
- Storage : Keep in original container, tightly closed, out of reach of children. Keep away from food, drink and animal feeding stuffs. Read the label before use. Do not contaminate water. Open dumping is prohibited.

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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.

SECTION 10 : STABILITY AND REACTIVITY

Conditions to avoid : Avoid storage over 40°C, direct sunlight and heat
Incompatible : Alkali compounds
Decomposition Products : No data available
Hazardous polymerization : No data available
Stability : Stable under normal conditions.

SECTION 11 : TOXICOLOGICAL INFORMATION (TECHNICAL)

Toxicity Data :

Acute Oral LD₅₀ : (Rat) female 178 mg/kg

Acute Dermal LD₅₀ : (Mouse) female 128 mg/kg

Acute Dermal LD₅₀ : (Rabbit) > 10250 mg/kg

Carcinogenicity : No data available

Reproductive Effect : No data available

Effects of Overexposure :

Skin Contact: Repeated exposure may cause dermal sensitization

Eye Contact : Irritating to eyes

Ingestion : Possibly be harmful if swallowed

Chronic Effects : No data available

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

Fish Toxicity TLm (48 hr) : (Carp) 7.2 ppm

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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 - Irritant

Risk Phrase : R36 Irritating to eyes
R43 May cause sensitisation by skin contact
R24/25 Toxic in contact with skin and if swallowed

Safety Phrase : S2 Keep out of reach of children
S24 Avoid contact with skin
S38 In case of insufficient ventilation, wear suitable respiratory equipment.
S36/39 Wear suitable protective clothing, eye/face protection

SECTION 16 : OTHER INFORMATION

Reference : (a) Material Safety Data Sheet - Mipcin 50 WP
Date : 20-12-1994
(b) Material Safety Data Sheet - Mipcin Technical
Date of preparation : 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.