

MATERIAL SAFETY DATA SHEET

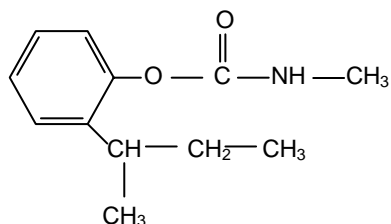
Introductory Details

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Date of preparation : 3 April 2004
Date revised : 11 June 2008

SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Details

Product Name : Bassa 50% EC
Trade Name : BASSA 50 EC
Chemical Name : 2-Sec-Butylphenyl-N-methylcarbamate (BPMC)
Chemical Formula : $C_{12}H_{17}NO_2$
Molar Mass : 207.3
Chemical Family : Carbamate
Manufacturer's Code : -
Use : Insecticide
Structural Formula :



Butylphenyl-N-methylcarbamate (BPMC)

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
2-Sec-Butylphenyl-N-methylcarbamate	3766-81-2	50 %	Refer to Section 9	Refer to Section 11
Surfactant	-	< 15 %		
Solvent	-	< 50%		

SECTION 3 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Slight yellowish liquid
Odour : Characteristic odour
Solubility : Miscible in water
Boiling Point (Technical) : 115 - 116°C / 0.02 mmHg
Melting Point (Technical) : 28 - 32°C
Vapour Pressure (Technical) : 7.4×10^{-5} mmHg at 20°C
Percentage Volatiles : No data available
Evaporation Rate : No data available
Vapour Density : No data available
Specific Gravity : 0.96
Flash Point : 30°C
Autoignition temperature : No data available
Flammable Limit : No data available

SECTION 4 : HAZARD IDENTIFICATION

Harmful in contact with skin
Toxic by inhalation and if swallowed
May cause sensitisation by skin contact

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SECTION 5 : FIRST AID MEASURES

Ingestion : Induce vomiting after drinking warm salt water. Get prompt medical attention.
Eye contact : Immediately flush with plenty of water. Get medical attention.
Skin contact : Remove contaminated clothing and wash skin thoroughly with soap and water.
Inhalation : Remove patient from exposure, keep warm and at rest. Obtain medical attention as a precaution.
Notes to physician :
Poisoning symptoms : Headache, dizziness, nausea, vomiting, excessive salivation, pupillary constriction, stomachache, muscle twitching, impediment in speech and walking, clouding of consciousness and convulsion.
Medical treatment : An intravenous injection with 1.2 - 2 mg Atropine sulphate is repeated at intervals of 10 - 30 minutes until the throat and skin of patient are dried out.
(Caution : An injection of PAM delays recovering.)

SECTION 6 : FIRE FIGHTING MEASURES

Extinguishing Media : CO₂, foam, dry 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 resources.

SECTION 8 : HANDLING AND STORAGE

Handling : Read the label before use. Wear pesticide respiratory masks, protective gloves and clothing while handling.
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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SECTION 9 : EXPOSURE CONTROL AND PERSONAL PROTECTION

- a. Exposure Limit (Technical) : TLV 5 mg/m³
- b. Engineering measures : Local exhaust ventilation
- c. 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 : Decomposed in alkali and strong acid.
- Decomposition Products : No data available
- Hazardous polymerization : No data available
- Stability : Stable under normal conditions.

SECTION 11 : TOXICOLOGICAL INFORMATION (TECHNICAL)

Toxicity Data :

- | | | |
|-----------------------------------|---------------------|----------------|
| Acute Oral LD ₅₀ | : (Rat) male | 623 mg/kg |
| | (Rat) female | 657 mg/kg |
| | (Mouse) male | 182 mg/kg |
| | (Mouse) female | 173 mg/kg |
| Acute Dermal LD ₅₀ | : (Mouse) | > 4200 mg/kg |
| Acute Inhalation LC ₅₀ | : (Rat) | 0.366 mg/l air |
| 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 : No data available

Biodegradability : No data available

Fish toxicity TLm (48 hr) : (Carp) 12.6 ppm

Fish studies indicated residues remain in 0 - 4 in. Layer with half-life of 1 - 2 months. After 183 days, residues were at negligible or undetectable levels. Confined and field rotational crop data showed residues likely to occur in root crops at intervals of < 9 months.

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 - Poisonous

CPL Regulation : Class - Toxic, Flammable

Risk Phrases : R10 Flammable
R21 Harmful in contact with skin
R23/25 Toxic by inhalation and if swallowed
R43 May cause sensitisation by skin contact

Safety Phrases : S1/2 Keep locked up and out of reach of children
S13 Keep away from food, drink and animal feeding stuff
S38 In case of insufficient ventilation, wear suitable respiratory equipment
S24 Avoid contact with skin
S36/37/39 Wear suitable protective clothing, gloves and eyes/face protection

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SECTION 16 : OTHER INFORMATION

Reference : (a) Material Safety Data Sheet - Bassa 50 EC
Date : 20-12-1994

(b) Material Safety Data Sheet - Bassa Technical
Date : 5th April 2002

(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.