

# MATERIAL SAFETY DATA SHEET

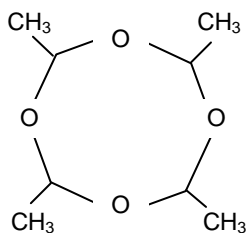
## Introductory Details

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Date of preparation : 31<sup>st</sup> March 2004  
Date revised : 11 June 2008

## SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product Details

Product Name : Metaldehyde 5% sand coated granule  
Trade Name : ACMATOX / MOSTOX / HERGETOX  
Chemical Name : 2,4,6,8-tetramethyl-1,3,5,7-tetroxocane  
Chemical Formula :  $C_8H_{16}O_4$   
Molar Mass : 176.21  
Chemical Family : Polymer of acetaldehyde  
Manufacturer's Code : -  
Use : Molluscicide  
Structural Formula :



*Metaldehyde*

### 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. : 604-3907988

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## SECTION 2 : COMPOSITION/INFORMATION ON INGREDIENT

| Chemical Name                               | CAS No.  | Proportion | Exposure Limit    | Toxicity Data       |
|---|----------|------------|-------------------|---------------------|
| 2,4,6,8-tetramethyl-<br>1,3,5,7-tetroxocane | 108-62-3 | 5 %        | No data available | Refer to Section 11 |
| Other ingredient                            | -        | Balance    |                   |                     |

## SECTION 3 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Greenish granule  
Odour : Characteristic odour  
Solubility : Practically insoluble in water and common organic solvent  
Boiling Point : Not applicable  
Melting Point (°C) : Not applicable  
Vapour Pressure (technical) : 1.3 mbar at 28.5°C  
Percentage Volatiles : No data available  
Evaporation Rate : No data available  
Vapour Density : No data available  
Specific Gravity : No data available  
Flash Point : No data available  
Autoignition Temperature : No data available  
Heat of Combustion (technical) : 26.4 MJ/kg

## SECTION 4 : HAZARD IDENTIFICATION

No significant hazard under CPL regulations.

## SECTION 5 : FIRST AID MEASURES

Ingestion : Get medical attention immediately.  
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 to fresh air.  
Notes to physician :  
Poisoning symptoms : Abdominal pain, vomiting, muscular cramps, unconsciousness, convulsions.

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Medical treatment : Treatment is symptomatic.

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

Extinguishing media : CO<sub>2</sub>, foam, dry chemical.

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.

## **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, drinks and animal feeding stuffs. Read the label before use. Do not contaminate water. Open dumping is prohibited.

## **SECTION 9 : EXPOSURE CONTROL AND PERSONAL PROTECTION**

Exposure limit : No data available

Engineering measures : General ventilation, local exhaust ventilation

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

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## SECTION 10 : STABILITY AND REACTIVITY

Conditions to avoid : Direct sunlight, heat and extreme temperature  
Incompatible : Acids and heating cause depolymerisation to acetaldehyde and paraldehyde.  
Decomposition products : Acetaldehyde and paraldehyde.  
Hazardous polymerization : No data available  
Stability : Stable under normal conditions.

## SECTION 11 : TOXICOLOGICAL INFORMATION (TECHNICAL)

### Toxicity Data :

|                               |                     |              | <u>95% Confidence Intervals</u> |
|-------------------------------|---------------------|--------------|---------------------------------|
| Acute Oral LD <sub>50</sub>   | : (Rat) male        | 2158.4 mg/kg | 1243.3 - 3759.5 mg/kg           |
|                               | : (Rat) female      | 3162 mg/kg   | 1463.9 - 3182.3 mg/kg           |
| Acute Dermal LD <sub>50</sub> | : (Rat) male        | > 10 g/kg    |                                 |
|                               | : (Rat) female      | > 10 g/kg    |                                 |
| 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

## SECTION 12 : ECOLOGICAL INFORMATION (TECHNICAL)

Mobility & Bioaccumulation : No data available  
Biodegradability : No data available  
Fish toxicity LC<sub>50</sub> (Rainbow trout, 96h) : 75 mg/L  
EC<sub>50</sub> (Daphnia magna, 48 h) : > 90 mg/L  
EC<sub>50</sub> (Green algae, 96h) : 73.5 mg/L  
Biotic degradation : 18% (28 days DOC loss OEC 301E)

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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 IV

CPL Regulation : No significant hazard under CPL regulations.

## **SECTION 16 : OTHER INFORMATION**

Reference : (a) Material Safety Data Sheet - Metaldehyde Technical  
Date : 5<sup>th</sup> May 2002

(b) Guidelines for The Classification of Hazardous Chemicals, DOSH 1997

(c) Guidelines for The Formulation of A Chemical Safety Data Sheet, DOSH 1997

(d) 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.