

# MATERIAL SAFETY DATA SHEET

## Introductory Details

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Date of preparation : 14 March 2005  
Date revised : 24 December 2007

## SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product Details

Product Name : HI-POD CALCIUM / CALCIUM 2020  
Trade Name : HI-POD CALCIUM / CALCIUM 2020  
Chemical Name : -  
Chemical Formula : -  
Molar Mass : -  
Chemical Family : -  
Manufacturer's Code : -  
Use : Foliar fertilizer

### 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 : 04-390 7988  
Emergency Telephone Number : 04-390 7988

#### **Importer/Distributor**

Name and Address : As above  
Telephone Number : As above  
Emergency Telephone Number : As above

### 1.3 Contact Point

Designation : Ms. Cheong Wai Ching, Product Support Manager /  
En. Ahmad Labib bin Yusof, Administrative Assistant  
Tel. No. : 04-390 7988

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## SECTION 2 : COMPOSITION/INFORMATION ON INGREDIENT

Chemical Name	CAS No.	Proportion	Exposure Limit	Toxicity Data
Major Elements :	-		No data available	Refer Section 11
Nitrogen (N)		14.0 % w/v		
Magnesium (MgO)		3.0 % w/v		
Calcium (CaO)		21.0 % w/v		
Trace Elements :	-			
Iron (Fe)		2000 ppm		
Zinc (Zn)		1500 ppm		
Boron (B)		1000 ppm		
Copper (Cu)		100 ppm		
Others	-	Balance		

## SECTION 3 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Reddish brown liquid  
Odour : Characteristic odour  
Solubility : Readily soluble  
Boiling Point : 100°C  
Melting Point (°C) : No data available  
Vapour Pressure (mm of Hg at 25°C) : No data available  
Percentage Volatiles : No data available  
Evaporation Rate : No data available  
Vapour Density : No data available  
Specific Gravity : No data available  
Flash Point : Not applicable  
Autoignition temperature : No data available  
Flammable limit (%) and : Not inflammable  
Density : 1.43  
pH Value (without dilution) : 4.6

## SECTION 4 : HAZARD IDENTIFICATION

Irritating to eyes and skin.

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

Ingestion : Do not induce vomiting. Seek medical advice immediately.  
Eye contact : Immediately flush with plenty of water. Seek medical advice.  
Skin contact : Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical advice if irritation persists.  
Inhalation : Remove patient to fresh air. Seek medical attention.  
Notes to physician : Medical treatment is symptomatic.

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

Extinguishing Media : Foam, Carbon dioxide, dry powder.  
Fire fighting instruction : Fire fighters should wear full-faced self-contained breathing apparatus.  
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. Keep all sources of ignition away from the spillage. Contain and adsorb the spillage with inert material such as clay or earth. Collect into waste container. Wash the contaminated area with a little water and detergent. Contain and adsorb with inert material and collect into the same container for disposal. Prevent the spillage from entering local drainage system.

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

Handling : Handle with care. Wear suitable protective clothing such as uniform, rubber gloves, safety shoes etc. Read the label before use.  
Storage : Store in original container, tightly closed, away from feeds and foodstuffs. Keep out of reach of children.

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

- a. Exposure Limit : No data available
- b. Engineering measures : Local exhaust ventilation
- c. Personal protection : Wear suitable protective clothing such as uniform, rubber gloves, safety shoes etc.

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

- Conditions to avoid : Direct sunlight, heat and extreme temperature
- Incompatible : Strong acid or alkali
- Decomposition Products : No data available
- Hazardous polymerization : No data available

## **SECTION 11 : TOXICOLOGICAL INFORMATION**

- Toxicity Data : Low toxicity
- 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**

- Mobility & Bioaccumulation : No data available
- Biodegradability : No data available
- Aquatic Toxicity : No data available

## **SECTION 13 : DISPOSAL INFORMATION**

Disposal method in accordance with all applicable national environment laws and regulations.

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## **SECTION 14 : TRANSPORT INFORMATION**

Follow all local regulations on transportation.

## **SECTION 15 : REGULATORY INFORMATION**

CPL Regulations : Class - Irritant

Risk Phrase : R36/38 Irritating to eyes and skin

Safety Phrase : S2 Keep out of reach of children  
S13 Keep away from food, drink and animal feeding stuff  
S23 Do not breathe vapour  
S24/25 Avoid contact with skin and eyes

## **SECTION 16 : OTHER INFORMATION**

Reference : (a) Material Safety Data Sheet - HI-POD Calcium  
Date : 12-1-1995

(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.