

# MATERIAL SAFETY DATA SHEET

## Introductory Details

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Date of preparation : 21 October 2008

## SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product Details

Product Name : TUNE-UP  
Trade Name : TUNE-UP  
Chemical Name : Not applicable  
Chemical Formula : Not applicable  
Molar Mass : Not applicable  
Chemical Family : Bacillus thuringiensis kurstaki  
Manufacturer's Code : None  
Use : Insecticide  
Structural Formula : Not applicable

### 1.2 Company Identification

**Manufacturer** : Available upon request

#### **Importer/Distributor**

Name and Address : Agricultural Chemicals (M) Sdn. Bhd.  
962, Lorong Perusahaan 8, Taman Perindustrian Perai,  
13600 Perai, Pulau Pinang, MALAYSIA.  
Telephone Number : 604-3907988  
Emergency Telephone Number : 604-3907988

### 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

Component	CAS No.	Proportion	Exposure Limit	Toxicity Data
Bacillus thuringiensis kurstaki	68038-71-1	18%	Not established	No data available

## SECTION 3 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Brown granule
Odour	: Fishmeal
Solubility	: Soluble in water
Boiling Point	: No data available
Melting Point	: No data available
Vapour Pressure	: No data available
Percentage Volatiles	: No data available
Evaporation Rate	: No data available
Vapour Density	: No data available
Specific Gravity	: 20.00lbs./cu.ft.
Flash Point	: No data available
Autoignition Temperature	: No data available
Flammable Limit	: No data available
pH	: 6.0 – 6.5

## SECTION 4 : HAZARD IDENTIFICATION

Irritating to eyes, respiratory system and skin

## SECTION 5 : FIRST AID MEASURES

Ingestion	: If victim is fully conscious, immediately give a large quantity of water to drink and induce vomiting. Never give anything by mouth to an unconscious person.
Eye contact	: Immediately rinse with large amount of running water. Hold eyelids apart to rinse the entire surface of the eyes and lids. Do not apply any medicated agents except on the advice of a physician.
Skin contact	: Remove contaminated clothing. Wash with plenty of soap and water, including hair and under fingernails. Do not apply any medicating agents except on the advice of a physician.



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## SECTION 9 : EXPOSURE CONTROL AND PERSONAL PROTECTION

Exposure limit : No data available

Engineering measures : Local exhaust ventilation

Personal protection :

Respiratory protection : To avoid breathing dust, use with adequate ventilation and/or wear a NIOSH-approved dust or pesticide respirator with a dust prefilter

Eye protection : To avoid eye contact, wear safety goggles with side shields.

Skin protection : To avoid skin contact, wear rubber gloves, rubber boots, long-sleeved shirt, long pants and head covering.

## SECTION 10 : STABILITY AND REACTIVITY

Conditions to avoid : None known.

Incompatible : None known

Decomposition products : None known

Hazardous polymerization : Will not occur

Stability : Stable under normal storage conditions.

## SECTION 11 : TOXICOLOGICAL INFORMATION

### **Bacillus thuringiensis**

Toxicity Data :

Acute Toxicity/Irritation Studies

Ingestion : No data available

Dermal : No data available

Inhalation : No data available

Mutagenic Effect : No data available

Carcinogenicity : No data available

Reproductive Effect : No data available

Effects of overexposure:

Eye Contact : No data available

Skin Contact : No data available

Skin Sensitization : 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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## **Toxicity and Other Components**

Surfactant

Direct contact with eyes may result in moderate to severe irritation with some corneal injury lasting several days to a week. Prolonged exposure to skin may result in dermatitis. Inhalation may irritate the upper respiratory tract.

## **SECTION 12 : ECOLOGICAL INFORMATION**

Mobility & Bioaccumulation : No data available  
Biodegradability : No data available  
Aquatic toxicity : Low toxicity to fish and wildlife  
Eco-acute toxicity :  
    Bobwhite oral LD<sub>50</sub> > 16,665 mg/kg  
    Mallard oral LD<sub>50</sub> > 16,665 mg/kg

## **SECTION 13 : DISPOSAL INFORMATION**

Dispose of according to local regulation.

## **SECTION 14 : TRANSPORT INFORMATION**

D.O.T. Proper Shipping Name : N/A  
Technical Shipping Name : Tune-up WDG  
D.O.T. Hazard Class : Not regulated  
U.N. /N.A. Number : N/A  
Product RQ (lbs.) : N/A  
D.O.T. Label : N/A  
D.O.T. Placard : N/A

## **SECTION 15 : REGULATORY INFORMATION**

Pesticides Act : Class IV  
CPL Regulation : Class – Irritant  
  
Risk Phrases : R36/37/38 Irritating to eyes, respiratory system and skin

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Safety Phrases : S2 Keep out of reach of children  
S13 Keep away from food, drink and animal feeding stuff  
S24/25 Toxic in contact with skin and if swallowed

## SECTION 16 : OTHER INFORMATION

- Reference : (a) Material Safety Data Sheet – TUNE-UP WDG  
Approval Date: 11/15/00  
MSDS Number: 70051-69TUW
- (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.