

MATERIAL SAFETY DATA SHEET

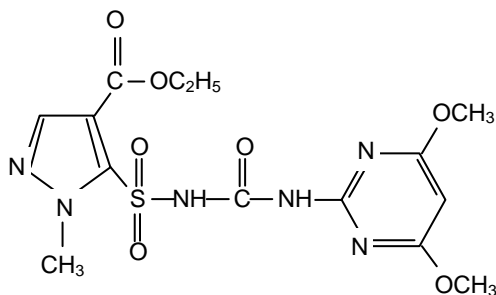
Introductory Details

Page 1 of total 6
Date of preparation : 8 April 2004
Date revised : 11 June 2008

SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Details

Product Name : Pyrazosulfuron-ethyl 1% jumbo granule
Trade Name : BASMIN 1% JUMBO
Chemical Name : Ethyl 5-(4,6-dimethoxypyrimidin-2-ylcarbamoyl-sulfamoyl)-1-methyl
pyrazole-4-carboxylate
Chemical Formula : $C_{14}H_{18}N_6O_7S$
Molar Mass : 414
Chemical Family : Pyrazole compound
Manufacturer's Code : -
Use : Herbicide
Structural Formula :



Pyrazosulfuron-Ethyl

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

MATERIAL SAFETY DATA SHEET

Introductory Details

Page 2 of total 6

Date of preparation : 8 April 2004

Date revised : 11 June 2008

SECTION 2 : COMPOSITION/INFORMATION ON INGREDIENT

Chemical Name	CAS No.	Proportion	Exposure Limit	Toxicity Data
Ethyl 5-(4,6-dimethoxy pyrimidin-2-ylcarbamoyl-sulfamoyl)-1-methyl pyrazole-4-carboxylate	93697-74-6	1 %	Refer to Section 9	Refer to Section 11
Carbonate compound	-	< 5 %		
Buffering agent	-	< 5 %		
Others	-	Balance		

SECTION 3 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Off-white jumbo granule
Odour	: Characteristic odour
Solubility	: Partially soluble in water
Boiling Point	: No data available
Melting Point (technical)	: 180 - 182°C
Vapour Pressure (technical)	: 2.5×10^{-7} mmHg at 25°C
Percentage Volatiles	: No data available
Evaporation Rate	: No data available
Vapour Density	: No data available
Specific Gravity (technical)	: 1.44 at 20°C
Flash Point	: Not inflammable
Autoignition temperature	: No data available
Flammable Limit (%)	: No data available
Bulk density (10% WP)	: 0.4 ± 1
pH (10% WP)	: 7.3 (10% suspension)
Partition coefficient (log $P_{o/w}$)	: 3.16 (technical)

SECTION 4 : HAZARD IDENTIFICATION

Not classified as hazardous under CPL regulations.

MATERIAL SAFETY DATA SHEET

Introductory Details

Page 3 of total 6

Date of preparation : 8 April 2004

Date revised : 11 June 2008

SECTION 5 : FIRST AID MEASURES

- Ingestion : If swallowed, induce vomiting after drinking 1 or 2 glasses of 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 for at least 15 minutes.
- Skin contact : Remove contaminated clothing and wash skin thoroughly with soap and water.
- Inhalation : Remove patient to fresh air.
- Notes to physician : Treatment is symptomatic.

SECTION 6 : FIRE FIGHTING MEASURES

- Extinguishing Media : Water, foam, CO₂, dry chemical.
- Fire fighting instruction : Fire fighters should wear full-faced self-contained breathing apparatus and protective clothing.
- Special hazards : Normal combustion forms CO₂, water vapour and may produce toxic gases (CO, SO_x or NO_x).

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 : Wear suitable protective clothing and gloves while handling. Read the label before use.
- Storage : Keep in original container, tightly closed, out of reach of children. Keep away from food, drink and animal feeding stuffs. Store in a cool place and protect from direct sunlight. Do not contaminate water. Open dumping is prohibited.

MATERIAL SAFETY DATA SHEET

Introductory Details

Page 4 of total 6

Date of preparation : 8 April 2004

Date revised : 11 June 2008

SECTION 9 : EXPOSURE CONTROL AND PERSONAL PROTECTION

- a. Exposure Limit : ACGIH - Not established
- b. Engineering measures : Local exhaust ventilation
- c. Personal protection : Wear suitable protective clothing and gloves.

SECTION 10 : STABILITY AND REACTIVITY

- Conditions to avoid : Direct sunlight, heat, extreme temperature and pH, UV light.
- Incompatible : Strong oxidizing agents such as chlorates, nitrates, peroxides, etc.
- Decomposition Products : Hazardous decomposition will not occur.
- Hazardous polymerization : Will not occur.
- Stability : Stable under normal conditions.

SECTION 11 : TOXICOLOGICAL INFORMATION (10% WP)

Toxicity Data :

- Acute Oral LD₅₀ : (Rat) male / female > 5000 mg/kg
- Acute Dermal LD₅₀ : (Rat) > 2000 mg/kg
- Acute Inhalation LC₅₀ : (Rat) male / female > 4.79 mg/l (No mortality, R20 not required)

- Carcinogenicity : Not carcinogen (based on Technical Material)
- Reproductive Effect : No reproductive effect (based on Technical Material)
- Mutagenic Effect : Not mutagenic (based on Technical Material)
- Teratogenic Effect : Not teratogenic (based on Technical Material)

Effects of Overexposure :

- Skin Irritation : Non irritant
- Eye Irritation : Slight irritation to eyes (R38 not required)
- Sensitizing Effect : Not sensitizing (Maximization Test)

- Chronic Effects : No data available
- Target Organs : No data available
- Medical Conditions Generally Aggravated by Exposure : No data available

MATERIAL SAFETY DATA SHEET

Introductory Details

Page 5 of total 6

Date of preparation : 8 April 2004

Date revised : 11 June 2008

SECTION 12 : ECOLOGICAL INFORMATION (10% WP)

Mobility & Bioaccumulation	:	No data available	
Biodegradability	:	No data available	
Aquatic Toxicity	:		
LC ₅₀ (48 hr)	:	(Rainbow trout)	> 100mg/L
LC ₅₀ (3hr)	:	(<i>Daphnia pulex</i>)	> 100mg/L
LC ₅₀ (96 hr, technical material)	:	(Bluegill sunfish)	> 180mg/L
LC ₅₀ (48 hr, technical material)	:	(<i>Daphnia magna</i>)	700mg/L
Bird Toxicity (Based on Technical Material)			
LD ₅₀	:	(Bobwhite quail)	> 2,250mg/kg
Bee Toxicity (Based on Technical Material)			
LD ₅₀ (Contact)	:		> 100µg/bee

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 Regulations	:	Not classified as hazardous under CPL regulations.

MATERIAL SAFETY DATA SHEET

Introductory Details

Page 6 of total 6

Date of preparation : 8 April 2004

Date revised : 11 June 2008

SECTION 16 : OTHER INFORMATION

Reference : (a) Material Safety Data Sheet - Basmi 1% Jumbo

Date : 2-8-1995

(b) Nissan Chemical Material Safety Data Sheet - Sirius 10% WP

Date Revised : December 15, 2000

(c) Nissan Chemical Material Safety Data Sheet - Pyrazosulfuron-ethyl

Date Revised : September 17, 1998

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

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

(f) 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.