

MATERIAL SAFETY DATA SHEET

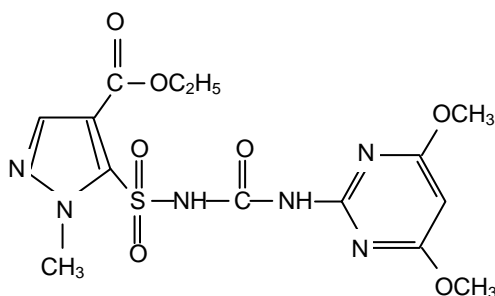
Introductory Details

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Date of preparation : 11th April 2002
Date revised : 23rd February 2008

SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Details

Product Name : Pyrazosulfuron-ethyl 10% WP
Trade Name : Basmin 311-WP
Chemical Name : Ethyl 5-(4,6-dimethoxypyrimidin-2-ylcarbamoylsulfamoyl)-1-methylpyrazole-4-carboxylate
Chemical Formula : C₁₄H₁₈N₆O₇S
Molar Mass : 414.40
Chemical Family : Heterocyclic Nitrogen Derivatives
Manufacturer's Code : -
Use : Herbicide
Structural Formula :



Pyrazosulfuron-Ethyl

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. 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
Ethyl-5-(4,6-dimethoxy pyrimidin-2-ylcarbamoyl sulfamoyl)-1-methyl pyrazole-4-carboxylate	93697-74-6	10% w/w	No data available	Refer Section 11
Mineral powder and surfactant	-	Balance		

SECTION 3 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Off-white powder
Odour	: Faint aromatic
Solubility	: Dispersible in water
Boiling Point	: No data available
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 (H ₂ O = 1)	: 0.4 ± 0.1 g/cm ³ (Bulk Density)
Flash Point	: No data available
Autoignition Temperature	: No data available
Flammable Limit (%)	: No data available
Flammability	: No data available
pH Value	: 7.3 (10% suspension)
Log P _{o/w} (Technical)	: 3.16

SECTION 4 : HAZARD IDENTIFICATION

Not classified as hazardous under CPL regulations.

SECTION 5 : FIRST AID MEASURES

Ingestion	: Rinse mouth with water. Give one or two glasses of water and induce vomiting by touching the back of the throat with finger. Get medical attention immediately. Do not give anything by mouth or induce vomiting to an unconscious person.
Eye Contact	: Immediately rinse with running water for at least 15 minutes. Seek

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- medical advice.
- Skin Contact : Remove all contaminated clothing and footwear from the affected area. Immediately rinse with running water. Wash skin thoroughly with soap and water. If irritation persists, seek medical advice.
- Inhalation : If respiratory discomfort occurs, move the person to fresh air. If not breathing, give mouth-to-mouth resuscitation (or artificial respiration). Keep warm with blanket and keep at rest. Seek medical advice.
- Notes to Physician : Treatment is symptomatic.

SECTION 6 : FIRE FIGHTING MEASURES

- Extinguishing Media : Water, foam, dry chemical or carbon dioxide
- Fire Fighting Instruction : Fire fighters shall wear full faced self contained breathing apparatus. Move this product away from fire if there is no risk. Use water spray or fog nozzle to keep container or surrounding area cool. Fight fire from upwind position. Keep away from heat and open flame.
- Special Hazards : Normal combustion forms carbon dioxide, water vapour and may produce toxic gas such as carbon monoxide, sulfur oxides or nitrogen oxides.

SECTION 7 : ACCIDENTAL RELEASE MEASURE

Leak and/or Spill :

Wear protective clothing such as gloves, dust mask, safety shoes and uniform. Evacuate non essential personnel. Prevent spillage from entering the drainage systems or watercourses. Prevent further waste by closing the container properly, shifting its position to stop leakage or placing into another container. Sweep up the spill into closed waste container for disposal, do not raise dust. Wash the contaminated area with a little water and detergent and drain to waste water treatment plant. Always work upwind.

SECTION 8 : HANDLING AND STORAGE

- Handling : Wear dust respirator, rubber gloves, goggles while handling. Local exhaust or mechanical ventilation is desirable. Eye bath and safety shower are desirable. Wash thoroughly after handling.
- Storage : Keep tightly closed in original labelled container. Store indoor at room temperature, avoid wet, high humidity, heat or open flame. Keep away

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from possible contact with water, away from the reach of children and away from food, drinks and animal feeding stuffs.

Other Precautions : Do not reuse the container for other purpose. Avoid excessive dust formation.

SECTION 9 : EXPOSURE CONTROL AND PERSONAL PROTECTION

Exposure Limit : Not established
Engineering Measures : Not established
Personal Protection :
Respiratory Protection : Dust respirator
Eye Protection : Safety goggles
Skin Protection : Suitable protective clothing and gloves, rubber gloves.

SECTION 10 : STABILITY AND REACTIVITY

Stability : Stable under normal storage condition
Conditions to Avoid : Extreme pH, temperature and UV light
Incompatibles : Strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Decomposition Products : CO, SO_x, NO_x on combustion
Hazardous Polymerization : Will not occur.

SECTION 11 : TOXICOLOGICAL INFORMATION

Toxicity Data :

Acute Oral LD₅₀ : (Rat) > 5,000mg/kg
Acute Dermal LD₅₀ : (Rat) > 2,000mg/kg
Acute Inhalation LC₅₀ : (Rat) > 4.79mg/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 :
Eye Irritation : Slight irritation to eyes (R38 not required)
Skin Irritation : Non irritant

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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

SECTION 12 : ECOLOGICAL INFORMATION

Mobility & Bioaccumulation : No data available
Biodegradability : No data available
Aquatic Toxicity :
LC₅₀ (48 hr) : (Rainbow trout) > 100mg/L
LC₅₀ (3hr) : (*Daphnia pulex*) > 100mg/L
LC₅₀ (96 hr, technical material) : (Bluegill sunfish) > 180mg/L
LC₅₀ (48 hr, technical material) : (*Daphnia magna*) 700mg/L

Bird Toxicity (Based on Technical Material)
LD₅₀ : (Bobwhite quail) > 2,250mg/kg
Bee Toxicity (Based on Technical Material)
LD₅₀ (Contact) : > 100µg/bee

SECTION 13 : DISPOSAL INFORMATION

Active ingredient of Basmin 311 WP shows high biological efficacy against broad-leaved and grass weeds. It may show effect on non-target crops. Therefore do not contaminate waterways by cleaning of equipment or disposal of wastes. Untreated effluent should not be discharged where it will drain into lakes, streams or ponds. Wastes resulting from manufacture and formulation that cannot be used or chemically reprocessed should be disposed of by incinerator equipped with scrubber in accordance with all applicable regulations.

SECTION 14 : TRANSPORT INFORMATION

Follow all applicable regulations. Those directly responsible for transport must know their loads contain, and what action must be taken in the event of emergency. Special care must be taken during loading and unloading to prevent damage to the containers. This product must not be loaded with food or feed.

IMDG Class : Not applicable Main Label : Not applicable

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UN No. : Not applicable Marine Pollutant Label : Not applicable
Packing Group : Not applicable

SECTION 15 : REGULATORY INFORMATION

Pesticides Act :
Class : IV
CPL Regulations : Not classified as hazardous under CPL regulations.
EU Commission Directive, 93/21/EEC
Classification : Not applicable
Risk Phrase : Not applicable
Safety Phrase : Not applicable

SECTION 16 : OTHER INFORMATION

Reference :

- a. MSDS, Sirius 10% WP, date : December 15, 2000
Nissan Chemical Industries, Ltd., Tokyo, Japan.
- 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.