

MATERIAL SAFETY DATA SHEET

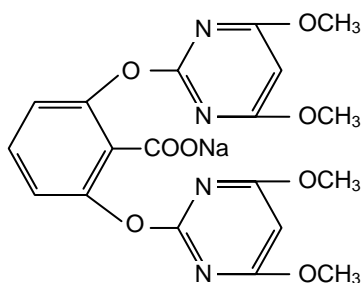
Introductory Details

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Date of preparation : 5 May 2003
Date revised : 4 June 2008

SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Details

Product Name : Bispyribac-Sodium 9.7 % SC
Trade Name : Nominee 100 SC / Nominee II
Chemical Name : Sodium 2,6-bis[(4,6-dimethoxypyrimidin-2-yl)oxy] benzoate
Chemical Formula : $C_{18}H_{17}N_4NaO_8$
Molar Mass : 440.3
Chemical Family : Pyrimidinyl carboxy compounds
Manufacturer's Code : KIH-2023 100 SC
Use : Herbicide for agricultural use
Structural Formula :



Bispyribac-Sodium

1.2 Company Identification

Manufacturer : Available upon request

Importer/Distributor

Name and Address : Agricultural Chemical (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. : 604-3907988

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SECTION 2 : COMPOSITION/INFORMATION ON INGREDIENT

Chemical Name	CAS No.	Proportion	Exposure Limit	Toxicity Data
Sodium 2,6-bis[(4,6-dimethoxy pyrimidin-2-yl) oxy] benzoate	125401-92-5	9.7 % w/w	No data available	Refer Section 11
Inert (Surfactant, water, etc)	-	90.3 % w/w		

SECTION 3 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Off-white viscous suspension concentrate
Odour : Almost odourless
Solubility : No data available
Boiling Point : No data available
Melting Point (°C) : No data available
Vapour Pressure (mmHg at 25°C) : No data available
Percentage Volatiles : No data available
Evaporation Rate : No data available
Vapour Density : No data available
Specific Gravity : 1.059 - 1.070 (20°C)
Flash Point : No data available
Autoignition Temperature : No data available
Flammable Limit (%) : No data available
Viscosity : 300 - 600 mPa
Suspensibility : 102 %
Dispersibility : Good
Heat Stability : Stable
Cold Stability : Stable
pH value (x1) : 9.12
Compatibility : Compatible to almost all pesticides

SECTION 4 : HAZARD IDENTIFICATION

Harmful by inhalation.
Irritating to skin.

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SECTION 5 : FIRST AID MEASURES

- Ingestion : Induce vomiting by giving one or two glasses of water. Get medical attention immediately. Never give fluids nor induce vomiting to the victim who is unconscious or having convulsions,
- Eye Contact : Immediate flush with copious amount of water for at least 15 minutes. If irritation persists, consult a physician.
- Skin Contact : Wash material off the skin in flowing water or shower with soap. If irritation persists, consult a physician immediately.
- Inhalation : Remove the victim to fresh air and keep him warm and quiet. Get a medical attention immediately. If not breathing, clear the airway and give artificial respiration. If breathing is difficult, give oxygen.
- Notes to Physician : No data available

SECTION 6 : FIRE FIGHTING MEASURES

- Extinguishing Media : Water, dry chemical powder, foam or carbon dioxide
- Fire Fighting Instruction : Use water, dry chemical powder or carbon dioxide in extinguishing. For a fire in surrounding area, apply water to cool and protect surrounding equipments. Remove containers, if feasible, from the fire area to safe place immediately. Fire fighters should wear protective gears including a positive pressure self-contained breathing apparatus (SCBA). Evacuate non essential personnel.
- Special Hazards : No data available

SECTION 7 : ACCIDENTAL RELEASE MEASURE

Leak and/or Spill :

Evacuate non essential personnel by roping the area of leak or spill. Evacuate people to upwind of the spilled area. Remove all sources of ignition. No flares, smoking, or flames in the area immediately. Wear protective gears and never work downwind. For small spills, adsorb with inert materials (e.g. dry sand or earth), then place in a waste chemical container for disposal. Flush residual spill (area) with a plenty of water. Prevent spills from entering sewers, watercourses or low areas.

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SECTION 8 : HANDLING AND STORAGE

- Handling : Keep out of reach of children. When handling and spraying the product, wear duty working clothes, cap, gloves, glasses and mask to avoid contact with skin, eyes and inhalation of dust, fog and vapors. After work thoroughly wash hands, face and possible exposed areas of body and change clothing.
- Storage : Keep containers tightly closed and store in a cool, dark and dry place.

SECTION 9 : EXPOSURE CONTROL AND PERSONAL PROTECTION

- Exposure Limit : Not established ACGIH TLV (1992-93)
- Engineering Measures : Local exhaust ventilation is recommended. Containers should be kept tightly closed. Make available emergency showers and eye washes in a work area.
- Personal Protection :
- Respiratory Protection : Wear chemical cartridge respirator with an organic vapor cartridge, airline respirator, positive pressure self-contained breathing apparatus.
- Eye Protection : Safety goggles,
- Skin Protection : Gloves and boots as appropriate.

SECTION 10 : STABILITY AND REACTIVITY

- Conditions to Avoid : No data available
- Incompatibles : Compatible to almost all pesticides
- Decomposition Products : No data available
- Hazardous Polymerization : No data available
- Stability : Stable for 3 years if stored in a cool, dark and dry place.

SECTION 11 : TOXICOLOGICAL INFORMATION

Toxicity Data :

- Acute Oral LD₅₀ : (Rat) > 5,000 mg/kg (male & female)
- Acute Dermal LD₅₀ : (Rat) > 4,000 mg/kg (male & female)
- Inhalation LC₅₀ (4 hrs) : (Rat) > 3.99 mg/L
- Mutagenic Effect : (Ames test) Negative (S-9 Mix + or -) (Technical)
- Carcinogenicity : No data available
- Reproductive Effect : No data available

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Effects of overexposure :
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 Eye Irritation : (Rabbit) Not irritant
 Skin Irritation : (Rabbit) Mild irritant
 Allergenic Effects : (Guinea pig) Not sensitizing
 Sensitizing Effects : (Guinea pig) Not sensitizing
Chronic Effects : We have never faced the poisoning problem attributed to Nominee 100 SC on laboratory researchers, factory workers and users. However, over-exposure experiments on animals showed that the administration of an extra-ordinary large quantity of Nominee 100 SC may cause hypoactivity, abnormal walking and prostration.
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
 TLm96 : Bluegill sunfish >100 ppm
 TLm96 : Common carp >100 ppm
 TLm48 : *Daphniamagna* >100 ppm
Avian Toxicity :
 Acute LD₅₀ (Oral) : Bobwhite quall >2,000 mg/kg
 Mallard duck >2,000 mg/kg
Earthworm Toxicity :
 Acute LC₅₀ (14 days) : >1,000 ppm
Honey Bee Toxicity :
 Topical LD₅₀ : >200 µg/ bee

SECTION 13 : DISPOSAL INFORMATION

Dispose of in accordance with local regulation.
Do not dump into sewers or into any body of water.

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SECTION 14 : TRANSPORT INFORMATION

Shipper must give transporters a transport precautionary instruction at the time of shipping the product. Check the leakage of containers before loading. Make sure to load containers correctly to prevent them from falling down. Follow all regulations with regard to transporting chemicals in your country.

SECTION 15 : REGULATORY INFORMATION

Pesticides Act :
Class : IV

CPL Regulations :
Class : Harmful
Risk Phrases : R20 Harmful by inhalation
R38 Irritating to skin
Safety Phrases : S 36 Wear suitable protective clothing

SECTION 16 : OTHER INFORMATION

- Reference :
- a. Proceedings, Brighton Crop Protection Conference, 1993.
 - b. MSDS - Nominee 100 SC, date : June 17. 1997.
Kumial Chemical Industry Co., Ltd
 - c. MSDS – Nominee 100 SC, date : October 22, 1997 (Acute dermal toxicity)
Kumial Chemical Industry Co., Ltd
 - d. MSDS – Nominee 100 SC, date : November 1, 2001 (Change of Kumiai's postal code)
Kumial Chemical Industry Co., Ltd
 - e. Guidelines for The Classification of Hazardous Chemicals, DOSH 1997
 - f. Guidelines for The Formulation of A Chemical Safety Data Sheet, DOSH 1997
 - g. 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.