Section 1: Identification of the Hazardous Chemical and of the Supplier

1.1 Product Identifier
Product Name: Pyrazosulfuron-ethyl 10% WP
Trade Name: Basmin 311 WP
Active Ingredient: Ethyl 5-(4,6-dimethoxy-2-ylcarbamoylsulfamoyl)-1-methyl pyrazole-4-carboxylate
CAS No.(AI): 93697-74-6
Structural Formula:

Product Category: Herbicides

1.2 Supplier's Information
Address: Agricultural Chemicals (M) Sdn. Bhd.
962, Lorong Perusahaan 8
Taman Perindustrian Perai
13600 Perai, Pulau Pinang
Malaysia
Tel.: +6-04-3907988
Fax: +6-04-3905703
Web: www.agrichem.com.my
Emergency Phone: +6-04-3907988

Section 2: Hazard Identification

Classification: Not classified as hazardous under CLASS Regulations 2013
Pictogram: Not applicable
Signal Word: Not applicable
Hazard Statement: Not applicable
Precautionary Statement: Not applicable

Section 3: Composition and Information of the Ingredients of the Hazardous Chemical

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>Weight, %</th>
<th>Hazard Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pyrazosulfuron-ethyl</td>
<td>93697-74-6</td>
<td>10%</td>
<td>-</td>
</tr>
<tr>
<td>Mineral powder and surfactants</td>
<td>-</td>
<td>Balance</td>
<td>-</td>
</tr>
</tbody>
</table>
Section 4: First-aid Measures

Inhalation: If respiratory discomfort occurs, move the person to fresh air. If not breathing, give mouth-to-mouth resuscitation (or an artificial respiration). Keep warm with blanket and keep at rest. Seek emergency medical advice.

Skin Contact: Remove all contaminated clothing, shoes and socks from the affected area. Immediately rinse with running water. Wash skin thoroughly with soap and water. If irritation persists, seek medical advice.

Eye Contact: Immediately rinse with running water for at least 15 minutes. Seek medical advice.

Ingestion: Rinse mouth with water. Give one or two glasses of water and induce vomiting by touching the back of the throat with a finger. Seek medical advice immediately. Do not give anything by mouth or induce vomiting to an unconscious person.

Symptoms: No data available

Notes to Physician: Treatment is symptomatic.

Section 5: Fire-fighting Measures

Suitable Extinguishing Media: Water, foam, dry chemicals or CO₂.
Specific Hazard during Fire: Normal combustion forms carbon dioxide, water vapour and may produce toxic gaseous (carbon monoxide, SO₂ or NOₓ).
Special Protective Equipment: Use self-contained breathing apparatus and protective clothing. Move away this product from fire if there is no risk. Use water spray or fog nozzle to keep containers or surrounding area cool. Fight fire from upwind position.
Other Information: Keep away from heat and open flame.

Section 6: Accidental Release Measures

Personal Precautions: Wear suitable protective clothing, shoes, gloves and goggle.

Environmental Precautions: Prevent spillage from entering the drainage systems or watercourses.

Method for Cleaning Up: Keep unauthorized persons, children and animals away from the affected area. Prevent further waste by closing the container properly, shifting its position to stop leakage or placing into another container. Carefully sweep up and collect the spilled material by absorbent such as sand or vermiculite and place in a closed container (drum) for disposal. Do not raise dust. Wash affected area with water containing a strong industrial type detergent.
Section 7: Handling and Storage

Precautions for Safe Handling: Wear suitable protective clothing, shoes and goggle. Do not eat, drink or smoke during the work. Do not breathe dust. Avoid contact with skin or eyes. Protect containers against physical damage. Keep away from heat and open flame. Do not reuse this container for any other purpose. Keep away from possible contact with water.

Conditions for Safe Storage: Store in a cool place and protect from direct sunlight. Keep tightly closed in original labeled container.

Incompatibles: No data available.

Section 8: Exposure Control and Personal Protection

Exposure Limit: Not established.

Engineering Control: No data available.

Personal Protective Equipment:

- Eye Protection: Safety goggles.
- Skin Protection: Suitable protective clothing and rubber gloves.
- Respiratory Protection: Dust respirator.

Section 9: Physical and Chemical Properties

Appearance: Off-white powder
Odour: Faint aromatic
Odour Threshold: No data available
pH: 7.3 (10% suspension)
Melting/Freezing Point: No data available
Initial Boiling Point: No data available
Boiling Range: No data available
Flash Point: No data available
Evaporation Rate: No data available
Flammability: Not inflammable
Upper Flammability Limit: No data available
Lower Flammability Limit: No data available
Vapour Pressure: No data available
Vapour Density: No data available
Relative Density: 0.4 ± 1 (bulk density)
Solubility in Water: Dispersible
Partition Coefficient $P_{o/w}$: 3.16 (technical)
Auto-ignition Temperature: No data available
Decomposition Temperature: No data available
Viscosity: No data available
Section 10: Stability and Reactivity

Reactivity: No data available
Chemical Stability: Unstable at extreme pH, temperatures and upon exposure to UV light. Stable under normal storage conditions.
Hazardous Reaction: No data available
Condition to Avoid: No data available
Incompatible Material: May react with strong oxidizing agents, such as chlorates, nitrates, peroxides etc.
Hazardous Decomposition Product: Will not occur.

Section 11: Toxicological Information

11.1 Acute Toxicity

Ingestion, Oral LD$_{50}$:
- Rat (male, female) >5000 mg/kg

Skin Contact, Dermal LD$_{50}$:
- Rat >2000 mg/kg

Inhalation, LC$_{50}$:
- Rat (male, female) >4.79 mg/L air (no mortality)

Component: Pyrazosulfuron-ethyl Technical

Ingestion, Oral LD$_{50}$:
- Rat (male, female) >5000 mg/kg

Skin Contact, Dermal LD$_{50}$:
- Rat (male, female) >2000 mg/kg

Inhalation, LC$_{50}$:
- Rat >3.9 mg/l

11.2 Chronic Effect from Short and Long Term Exposure

Skin Irritation: None
Eye Irritation: Slight irritation to eyes
Sensitization (Maximization test): No sensitization

Component: Pyrazosulfuron-ethyl Technical

Skin and Eye Irritation: Non-irritant
Skin Sensitization: None

Carcinogenicity: No carcinogen.
Teratogenicity: No teratogen.
Germ Cell Mutagenicity: No mutagen.
Reproductive Toxicity: No reproductive effect.

11.3 Symptoms

No data available.
Section 12: Ecological Information

Ecotoxicity:

<table>
<thead>
<tr>
<th>Species</th>
<th>EC50 (Unit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rainbow trout</td>
<td>&gt;100 mg/l</td>
</tr>
<tr>
<td>Daphnia pulex</td>
<td>&gt;100 mg/l</td>
</tr>
</tbody>
</table>

Component: Pyrazosulfuron-ethyl Technical

<table>
<thead>
<tr>
<th>Species</th>
<th>EC50 (Unit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish (Blugill sunfish)</td>
<td>&gt;180 mg/l</td>
</tr>
<tr>
<td>Daphnia magna</td>
<td>700 mg/l</td>
</tr>
<tr>
<td>Bird (Bobwhite quail)</td>
<td>&gt;2250 mg/kg</td>
</tr>
<tr>
<td>Bee</td>
<td>&gt;100 µg/bee</td>
</tr>
</tbody>
</table>

Persistence and Degradability: No data available

Bioaccumulative Potential: No data available

Mobility in Soil: No data available

Section 13: Disposal Information

Active ingredient of Basmin 311 WP, pyrazosulfuron-ethyl, shows high biological efficacy against broad-leaved and grass weeds. It may show effects on non-target plants. 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: Transportation Information

<table>
<thead>
<tr>
<th>Land (ADR/RID)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper Shipping Name</td>
<td>Environmentally Hazardous Substance, Solid, N.O.S.</td>
</tr>
<tr>
<td>Hazard Class</td>
<td>9</td>
</tr>
<tr>
<td>Hazchem Code</td>
<td>-</td>
</tr>
<tr>
<td>UN number</td>
<td>3077</td>
</tr>
<tr>
<td>Packing Group</td>
<td>III</td>
</tr>
<tr>
<td>Label / Mark</td>
<td>9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sea (IMDG)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper Shipping Name</td>
<td>Environmentally Hazardous Substance, Solid, N.O.S.</td>
</tr>
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<td>Hazard Class</td>
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</tr>
<tr>
<td>Packing Group</td>
<td>III</td>
</tr>
</tbody>
</table>
Marine Pollutant -
Label 9
Transport Document Name -

**Air (IATA)**

<table>
<thead>
<tr>
<th>Proper Shipping Name</th>
<th>Environmentally Hazardous Substance, Solid, N.O.S.</th>
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<tbody>
<tr>
<td>Hazard Class</td>
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</tr>
<tr>
<td>Transport Document Name</td>
<td>-</td>
</tr>
</tbody>
</table>

Those directly responsible for transport must know what 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 containers. This product must not be loaded with food or feed. Follow all applicable regulations.

**Section 15: Regulatory Information**

Classification: Classified as non hazardous under CLASS Regulations 2013
Signal Word: Not applicable
Pictogram: Not applicable

**Pesticides Act:** Class IV
Classification: -

**Section 16: Other Information**

Date of Preparation: 9 March 2016
Date of Revision: -
Reference Document: ICOP on Chemicals Classification and Hazard Communication 2014
GHS Purple Book

Disclaimer: 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.