



## MATERIAL SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

<b>Product Name</b>	:	Pymetrozine 50 % WG
<b>Common Name</b>	:	Pymetrozine
<b>IUPAC Name</b>	:	( <i>E</i> )-4,5-dihydro-6-methyl-4-(3-pyridylmethyleneamino)-1,2,4-triazin-3(2 <i>H</i> )-one
<b>Chemical Abstracts Name</b>	:	4,5-dihydro-6-methyl-4-(( <i>E</i> )-(3-pyridinylmethylene)amino)-1,2,4-triazin-3(2 <i>H</i> )-one
<b>CAS No.</b>	:	[123312-89-0]
<b>Chemical formula</b>	:	C <sub>10</sub> H <sub>11</sub> N <sub>5</sub> O
<b>Molecular weight</b>	:	217.23
<b>Chemical Family</b>	:	Pyridine
<b>Use</b>	:	Insecticide
<b>Company Name</b>	:	HPM Chemicals & Fertilizers Ltd.
<b>Address</b>	:	209-210, Anupam Bhawan, Azadpur Commercial Complex, Azadpur, Delhi- 110033
<b>Phone No.</b>	:	(011)-45071800
<b>Fax No.</b>	:	(011)-27681800
<b>E-mail</b>	:	<a href="mailto:info@hpmindia.com">info@hpmindia.com</a>
<b>Website</b>	:	<a href="http://www.hpmindia.com">www.hpmindia.com</a>

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

<b>Chemical Name</b>	<b>CAS No.</b>	<b>Content % (w/w)</b>
Pymetrozine	[123312-89-0]	50 %
Other	-	50 %



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### 3. HAZARDS IDENTIFICATION

- Classification of the Hazardous Chemical:** : Acute toxicity, Category 5 (dermal)
- Signal Word:** : WARNINGS.
- Hazard Statement(s):** : H302 Harmful if swallowed.
- Hazards** : H360Df May damage the unborn child. Suspected of damaging Fertility.
- Precautionary Statement(s):** : P201 Obtain special instructions before use.  
P280 Wear protective gloves/ protective clothing/ Eye protection/ face protection.  
P308 + P313 IF exposed or concerned: Get medical Advice/attention.
- Skin and Eyes** : Avoid contact with skin and eyes.
- Entry route** : Ingestion, Inhalation, Contact with eye or skin.
- Symptoms of poisoning** : Acute systemic toxicity is unlikely unless large amounts have been ingested. The symptom of poisoning may be irritation of eyes, skin and respiratory tract, hypoactivity, lacrimation, dyspepsia, soft stool, red stained urine, tremors, hypothermic to touch, erythema etc.

### 4. FIRST AID MEASURES

- Ingestion** : If swallowed, seek medical advice immediately  
DO NOT induce vomiting.
- Eye** : Rinse immediately with plenty of water, also under the Eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required
- Skin** : Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a doctor. Wash contaminated clothing before reuse
- Inhalation** : Remove to fresh air. If breathing is irregular or



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- stopped, administer artificial respiration. Keep patient warm and at rest. Call a doctor or Poison Information Centre immediately
- Advice to Physician** :
1. Atropinize the patient immediately and maintain full atropinization by repeated doses of 2 to 4 mg. at 5 to 10 minutes interval for hours together. The need for further atropine administration is indicated by the continuance of symptoms. As much as 25 to 50 mg. may be required in a day. The extent to salivation is a useful criterion to follow in adjusting the dosage of atropine.
  2. 1-2 gm 2 PAM dissolved in 10CC distilled water and is injected intravenously very slowly for 10-15 minutes.

### 5. FIRE FIGHTING MEASURES

- Specific Hazard** : There is no risk of an explosion from this product under normal circumstances if involved in a fire.
- Extinguishing Media** : Small fires: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. DO NOT use a solid water stream as it may scatter and spread fire.  
Large fires: Use alcohol-resistant foam or water spray. DO NOT use a solid water stream as it may scatter and spread fire.
- Hazard From Combustion products** : As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion .  
Exposure to decomposition products may be a hazard to health.
- Protective equipment** : Wear full protective clothing and self-contained breathing apparatus.

### 6. ACCIDENTAL RELEASE MEASURES

- In Case of Emergency** : In case of spillage it is important to take all steps necessary to
- Avoid eye and skin contact
  - Avoid contamination of waterways Wear full length clothing and PVC gloves, Keep all bystanders away
- Clean up Procedures** : Procedure for spill



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- (1) Keep all bystanders away
- (2) Wear full length clothing and PVC gloves
- (3) Reposition any leaking containers so as to minimise further leakage
- (4) Dam and absorb spill with an absorbent material (e.g. sand or soil)
- (5) Shovel the absorbed spill into drums
- (6) Disposal of the absorbed material will depend upon the extent of the spill
  - For quantities up to 50 L of product bury in a secure landfill site
  - For quantities greater than 50 L seek advice from the Manufacturer (use emergency contact number below) before attempting disposal. Contain in a secure location until disposal method is established
- (7) Decontaminate spill area with detergent and water and rinse with the smallest volume of water practicable

### 7. HANDLING AND STORAGE

- Handling** : Avoid contact with eyes and skin. Do not inhale spray mist. Wash hands after use.
- Storage** : Store in tightly sealed original containers in a dry secure place away from fertilisers, seed, feed and food. Store out of direct sunlight. Keep out of reach of children, unauthorised persons and animals.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering Controls** : In the Workplace: ensure ventilation is adequate and that air concentrations of components are controlled below quote Workplace Exposure Standards. Keep containers closed when not in use. No special requirements. Product is used outdoors.
- Ingestion** : DO NOT eat, drink or apply cosmetics, where there is a potential for exposure to the product.
- Eye Protection** : Safety goggles, chemical splash goggles or face shield for eyes protection should be used. Safety showers and eye wash should be easily available.
- Skin Protection** : Chemical resistant gloves, coveralls socks, apron and



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- chemical resistant foot covering should always be used while handling the product.
- Respiratory protection** : Always use NIOSH/MSHA approved respiratory protection equipment with a universal filter type including particle filter.
- General Protection** : Avoid contact with eyes and skin. While handling the product wear cotton overalls buttoned to the neck and wrist. Elbow-length PVC gloves and face shield. After use and before eating, drinking and smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and contaminated clothing.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

- Colour** : Beige to brown granules.
- pH** : 7 - 11 (1% aqueous solution @ 25 °C)
- Odour** : Weak
- Vapour pressure & reference temperature** :  $7.3 \times 10^{-10}$  mmHg @ 20 °C (Pymetrozine Technical)
- Density** : 0.4-0.6 g/cm<sup>3</sup> @ 25 °C

### 10. STABILITY AND REACTIVITY

- Chemical Stability** : Stable under normal use and storage conditions.
- Conditions to Avoid** : May form flammable dust-air mixture. This product is a combustible powder and like all combustible powders can ignite, burn and form explosive mixtures with air if not handled correctly. Mixtures of powder in air with flammable solvent vapours should be avoided. This product will undergo a very strong exothermic decomposition reaction elevated temperatures. During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.
- Incompatible Materials** : None known
- Hazardous decomposition products** : During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.
- Hazardous Reactions** : Will not occur



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### 11. TOXICOLOGICAL INFORMATION

<b>Acute Oral LD<sub>50</sub></b>	:	Rat > 5,000 mg/kg body weight
<b>Acute Dermal LD<sub>50</sub></b>	:	Rat > 2,000 mg/kg body weight
<b>Acute Inhalation LC<sub>50</sub></b>	:	Rat > 3.09 mg/L air - 4 hours
<b>Skin Irritation</b>	:	Rabbit: Slightly Irritating
<b>Eye Irritation</b>	:	Rabbit: Minimally Irritating
<b>Skin Sensitization</b>	:	Potential Dermal Sensitizer(guinea pig)

### 12. ECOLOGICAL INFORMATION (Technical)

#### Birds

**Mallard Duck 8-day Dietary LD<sub>50</sub>** : > 5,200 mg/kg

**Invertebrate (Daphnia magna) 48-hour EC<sub>50</sub>** : 87 ppm

#### Fish

**Rainbow trout LC<sub>50</sub> (96h)** : >128 ppm

**Green Algae 5-Day EC<sub>50</sub>** : 17 ppm

### 13. DISPOSAL CONSIDERATIONS

**Disposal** : Dispose of this product only by using according to the label. Do not contaminate drains, streams, rivers or waterways with the chemical or used container. Add rinsing's to spray tank.

**Disposal of empty Containers** : (1) Rinse containers before disposal. Add rinsing's to the spray tank. DO NOT dispose of undiluted chemicals on site.

(2) Dispose of rinsed, empty containers at a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product



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should not be burnt.

### 14. TRANSPORT INFORMATION

**Shipping Name** : Not Regulated  
**UN No.\*** : Not Regulated  
**Class** : Not Regulated  
**Packing group** : Not Regulated  
**Marine pollutant** : Not Regulated

**Note\*** UN3077 & UN3082 – These products may be transported as non-dangerous goods under the special provisions of IMDG code 2.10.2.7; ADR SP375 and ICAO/IATA A197 when packed in single or inner packaging of up to 5L for liquids or 5 kg or less for solids.

### 15. REGULATORY INFORMATION

**Hazard symbol**



**Dangerous for the environment (N)**

**Risk Phrase** R22, harmful if swallowed.  
**Safety phrase** S 1/2: Keep locked up and out of reach of children.  
S 26: In case of contact with eyes rinse immediately with plenty of water and seek medical advice.  
S 35: The material and its container must be disposed-off in a safe way.

### 16. OTHER INFORMATION

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are resented in good faith and believed to be correct. This information applies to the PRODUCT AS SUCH. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently



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produces formulations containing this product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS. Accordingly, no guarantee or warranty expressed or implied is made by HPM Chemicals & Fertilizers Ltd., as to the results to be obtained based upon the user's use of the information, nor does HPM Chemicals & Fertilizers Ltd., assume any liability arising out of user's use of the information.

**Date: 26/05/2020**

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