1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name : Tricyclazole Technical
CAS No : 41814-78-2
Use : Fungicide
Company Info : M/s HPM Chemicals & Fertilizers Ltd
209-210, Anupam Bhawan, Commercial Complex
Azadpur, Delhi-110033
Telephone : (011)-45071800, 899
Fax : (011)- 27681800
Website : www.hpmindia.com
E-mail : info@hpmindia.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

Composition
Tricyclazole a.i. 98.00% min.
Other associates impurities 2.00% max

3. HAZARDS IDENTIFICATION OF PREPARATION

Emergency Overview:
OSHA Hazards
Toxic by ingestion
GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statements (s)
H301 Toxic if swallowed.
H313 May be harmful in contact with skin.
H402 Harmful to aquatic life

Precautionary statements (s)
P264 Wash skin thoroughly after handling
P270 Do not eat, drink or smoke when using this product
P273 Avoid release to the environment
P301 + P310 If Swallowed: Immediately call a POISON CENTER or doctor/physician
P312 Call a POISON CENTER or doctor/physician if you feel unwell
P321 Specific treatment (see supplemental first aid instructions on his label)
P330 Rinse mouth
P405 Store locked up
P501 Dispose of contents/container to an approved waste disposal plant.

Company : HPM Chemicals & Fertilizers Ltd.
Website : www.hpmindia.com
MATERIAL SAFETY DATA SHEET

HMIS Classification
Health hazard : 2
Flammability : 0
Physical hazards: 0

NFPA Rating
Health hazard : 2
Fire : 0
Reactivity hazard: 0

Potential Health Effects
Inhalation : May be harmful if inhaled. May cause respiratory tract irritation
Skin : May be harmful if absorbed through skin. May cause skin irritation
Eye : May cause eye irritation
Ingestion : Toxic if swallowed.

4. FIRST AID MEASURES

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
Inhaled: If breathed in, move person into fresh air. If not breathing give artificial respiration consult a physician.
In case of skin contact: wash off with soap and plenty of water. Consult a physician.
In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special protective equipment for fire-fighters: Wear self contaminated breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions : Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.
Environmental precautions: do not let product enter drains.
Methods and materials for containment and cleaning up: Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.
7. HANDLING AND STORAGE

Precautions for safe handling: Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Conditions for safe storage: Keep container tightly closed in a dry and well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Contains no substances with occupational exposure limit values

Personal protective equipment:
Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

Hand Protection: Handle with gloves
Eye Protection: Face shield and safety glasses
Skin and body protection: Choose body protection according to the amount and concentration of the dangerous substance at the workplace.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Form: Solid

Safety data
pH: No data available
Melting Point: No data available
Boiling point: No data available
Flash Point: No data available
Ignition temperature: No data available
Lower explosion limit: No data available
Upper explosion limit: No data available
Water Solubility: No data available

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under recommended storage conditions
Conditions to avoid: No data available
Materials to avoid: Strong oxidizing agents
11. TOXICOLOGICAL INFORMATION

Acute toxicity:
- LD50 Oral-rat-250 mg/kg
- LD50 Dermal-rabbit->2000 mg/kg

Skin corrosion/irritation : No data available
Serious eye damage/eye irritation : No data available
Respiratory or skin sensitization : No data available
Germ cell mutagenicity:
  Genotoxicity in vitro-Hamster-Lungs
  Cytogenetic analysis

Carcinogenicity
IARC: No components of this product present at levels greater than or equal to 0.1% is identified as probable possible or confirmed human by IARC.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity : No data available
Specific target organ toxicity-single exposure (GHS): No data available
Specific target organ toxicity-repeated exposure (GHS): No data available

Aspiration hazard : No data available

Potential health hazard
Inhalation : May be harmful if inhaled. May cause respiratory tract irritation
Ingestion : Toxic if swallowed
Skin : May be harmful if absorbed through skin. May cause skin irritation
Eyes : May cause eye irritation

Additional information
RTECS: XZ5475000

12. ECOLOGICAL INFORMATION

Toxicity
- Toxicity to fish LC50-cyprinus carpio (Carp)-1-17-mg/l-96h

Persistence and degradability : No data available
Bioaccumulative potential : No data available
Mobility in soil : No data available
PBT and vPvB assessment : No data available
Other adverse effects : No data available
Avoid release to the environment.

### 13. DISPOSAL CONSIDERATIONS

**Product:** Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated Packaging:** Dispose of as unused product

### 14. TRANSPORT INFORMATION

**DOT (US)**
- UN-Number: 2811
- Class: 6.1
- Packing group: III
- Proper shipping name: Toxic solids, organic, n.o.s. (Tricyclazole)
- Marine pollutant: No
- Poison inhalation hazard: No

**IMDG**
- UN-Number: 2811
- Class: 6.1
- Packing group: III
- EMS-NO: F-A, S-A
- Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Tricyclazole)

**IATA**
- UN-Number: 2811
- Class: 6.1
- Packing group: III
- Proper shipping name: TOXIC solid, organic, n.o.s. (Tricyclazole)

### 15. REGULATORY INFORMATION

**OSHA Hazards**
- Toxic by ingestion

**DSL Status**
- This product contains the following components listed on the canadian NDSL list. All other components are on the Canadian DSL list.
  - Tricyclazole
    - CAS –No.: 41814-78-2

**SARA 302 Components**
- SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, section 302.

**SARA 313 Components**
- SARA 313: This material does not contain chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, section 313.

**SARA 311/312 Hazards**
- Acute Health Hazard

**Massachusetts Right to known components**
No components are subject to the Massachusetts Right to know act.

**Pennsylvania Right to know components**

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Revision Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tricyclazole</td>
<td>41814-78-2</td>
</tr>
</tbody>
</table>

**New Jersey Right to know components**

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Revision Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tricyclazole</td>
<td>41814-78-2</td>
</tr>
</tbody>
</table>

**California Prop. 65 components**

This product does not contain any chemicals known to state of California to cause cancer, birth defects, or any other reproductive harm.

---

**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 presented 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 produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.

**Prepared By:** M/s HPM Chemicals & Fertilizers Ltd. Safety Division