

# MATERIAL SAFETY DATA SHEET

## 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](http://www.hpmindia.com)  
**E-mail** : [info@hpmindia.com](mailto:info@hpmindia.com)

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Composition	Concentration
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](http://www.hpmindia.com)

Page No. 1



## 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 contained 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.



## MATERIAL SAFETY DATA SHEET

### 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 work place.

**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



## MATERIAL SAFETY DATA SHEET

**Hazardous decomposition product:** Hazardous decomposition products formed under fire conditions. Carbon oxides, nitrogen oxides (NOx), sulphur oxides.

### 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



## MATERIAL SAFETY DATA SHEET

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.

	CAS -No.
Tricyclazole	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



## **MATERIAL SAFETY DATA SHEET**

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

### **Pennsylvania Right to know components**

	CAS No.	Revision Rate
Tricyclazole	41814-78-2	

### **New Jersey Right to know components**

	CAS No.	Revision Rate
Tricyclazole	41814-78-2	

### **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