



# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name : Triacontanol Technical  
CAS No : 593-50-0  
Use : Plant Growth Regulator  
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
Triacontanol a.i.	100.00% min.

## 3. HAZARDS IDENTIFICATION OF PREPARATION

### Emergency Overview:

No data available.

### Route(s) of Entry:

Inhalation? Yes Skin? Yes Eyes? Yes Ingestion? Yes Other: Injection

### Potential Health Effects (Acute and Chronic):

Material may be irritating to the mucous membranes and upper respiratory tract.

May be harmful by inhalation, ingestion, or skin absorption.

May cause eye, skin, or respiratory system irritation.

The toxicological properties of this compound have not been fully evaluated.

### Signs and Symptoms Of Exposure:

No data available

## 4. FIRST AID MEASURES

### Emergency and First Aid Procedures:

If inhaled remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

If swallowed, wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.

In case of contact with eyes, hold eyelids apart and flush eyes with plenty of water. After initial flushings, remove any contact lenses and continue flushing for at least 20 minutes. Have eyes examined and tested by medical personnel.

In case of skin contact, immediately wash skin with soap and plenty of water. Remove

Company : HPM Chemicals & Fertilizers Ltd.  
Website : [www.hpmindia.com](http://www.hpmindia.com)

Page No. 1



## MATERIAL SAFETY DATA SHEET

contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

### 5. ACCIDENTIAL RELEASE

Steps To Be Taken In Case Material Is Released Or Spilled:

Wear a NIOSH/MSHA approved self-contained breathing apparatus and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

Vacuum or sweep up material and place in disposal container.

Avoid raising dust.

After removal, ventilate contaminated area and flush thoroughly with water

### 6. FIRE-FIGHTING MEASURES

Flash Pt: No data.

Explosive Limits: LEL: No data. UEL: No data.

Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH

approved or equivalent), and full protective gear to prevent contact with skin and eyes.

Flammable Properties and Hazards: Emits toxic fumes under fire conditions.

Extinguishing Media: Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray when fighting fires involving this material.

Unsuitable Extinguishing Media:

No data available

### 7. HANDLING AND STORAGE

**Handling** : Use appropriate (impervious) clothing, gloves and closed foot ware to prevent the repeated contact with skin. Use flash proof and dust resistant goggles to prevent the contact with eyes.

**Storage** : Keep the product in original container tightly closed and correctly labeled. Store in suitable, cool, dry, well ventilated place under lock and key; away from the reach of the children, animals, food and animal feeding stuffs. Store away from the incompatible substances and source of ignition

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Technical protective measures** : None

**Exposure controls limits** : Not Established



## MATERIAL SAFETY DATA SHEET

<b>Respiratory protection</b>	:	Wear suitable mask
<b>Hand protection</b>	:	Wear impervious gloves
<b>Eye protection</b>	:	Wear flash proof and dust resistant goggles.
<b>Skin protection</b>	:	Wear impervious clothing and closed foot ware.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States: [ ] Gas [ ] Liquid [ X ] Solid  
Melting Point: No data.  
Boiling Point: No data.  
Autoignition Pt: No data.  
Flash Pt: No data. Method:  
Explosive Limits: LEL: No data. UEL: No data.  
Specific Gravity (Water = 1): No data.  
Vapor Pressure (vs. Air or mm Hg): No data.  
Vapor Density (vs. Air = 1): No data.  
Evaporation Rate (vs Butyl Acetate=1): No data.  
Solubility in Water: 1.7 mg/ml\* at 25.0 C  
Other Solubility Notes: \*Chloroform  
Percent Volatile: N.A.  
Corrosion Rate: No data.  
Formula: C<sub>30</sub>H<sub>62</sub>O  
Molecular Weight: 438.80  
pH: No data.  
Appearance and Odor: A crystalline solid.

### 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable at room temperature in closed containers under normal storage and handling conditions.

**Conditions to Avoid:** Incompatible materials, excess heat, strong oxidants, exposure to moist air or water.

**Incompatibilities with Other Materials:** Oxidizing agents, moisture.

**Hazardous Decomposition Products:** Hydrogen chloride, carbon monoxide, oxides of phosphorus, irritating and toxic fumes and gases, carbon dioxide.

**Hazardous Polymerization:** Has not been reported.

### 11. TOXICOLOGICAL INFORMATION

Toxicological Information:

The toxicological effects of this compound have not been thoroughly studied.

Carcinogenicity/Other Information:

No data available.

Carcinogenicity:



## MATERIAL SAFETY DATA SHEET

NTP? No IARC Monographs? No OSHA Regulated? No

### 12. ECOTOXICOLOGICAL INFORMATION

Runoff from fire control or dilution water may cause pollution

### 13. DISPOSAL CONSIDERATION

Treatment and disposal methods: Product: Inactivate the product through incineration in ovens designed to this kind of operation, equipped with chambers to wash effluent gases that are according to the competent authority regulations.

Product residues: Keep eventual residues of the product and/or products with expiration date expired in their original packaging, duly closed. Used packaging: The empty packaging must be stored in a covered, ventilated place, protected from the rain and with waterproof floor, as well as contention dikes. Wear gloves when handling these packaging. The final destination of empty packaging can only be done by registering Company or user company or companies legally authorized by the competent authorities. The reuse of the empty packaging is forbidden for the user. They may be recycled if appropriate legislation is obeyed.

### 14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT)

DOT Proper Shipping Name:

No data available.

Additional Transport Information:

Transport in accordance with local, state, and federal regulations.

### 15. REGULATORY INFORMATION

#### US FEDERAL

##### TSCA

CAS# 16672-87-0 is not listed on the TSCA inventory. It is for research and development use only.

CAS# 7732-18-5 is listed on the TSCA inventory.

##### Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

##### Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

##### Section 12b

None of the chemicals are listed under TSCA Section 12b.

##### TSCA Significant New Use Rule



## **MATERIAL SAFETY DATA SHEET**

None of the chemicals in this material have a SNUR under TSCA.

### **CERCLA Hazardous Substances and corresponding RQs**

None of the chemicals in this material have an RQ.

### **SARA Section 302 Extremely Hazardous Substances**

None of the chemicals in this product have a TPQ.

**Section 313** No chemicals are reportable under Section 313.

### **Clean Air Act:**

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

### **Clean Water Act:**

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

### **OSHA:**

None of the chemicals in this product are considered highly hazardous by OSHA.

### **STATE**

CAS# 16672-87-0 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

CAS# 7732-18-5 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

### **California Prop 65**

California No Significant Risk Level: None of the chemicals in this product are listed.

### **European/International Regulations**

#### **European Labeling in Accordance with EC Directives**

#### **Hazard Symbols:**

T+

#### **Risk Phrases:**

R 26 Very toxic by inhalation.

R 36/37/38 Irritating to eyes, respiratory system and skin.

#### **Safety Phrases:**

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 28A After contact with skin, wash immediately with plenty of water

#### **WGK (Water Danger/Protection)**

CAS# 16672-87-0: 2

CAS# 7732-18-5: No information available.

#### **Canada - DSL/NDSL**

CAS# 7732-18-5 is listed on Canada's DSL List.

#### **Canada - WHMIS**

This product has a WHMIS classification of D2B.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

#### **Canadian Ingredient Disclosure List**



## **MATERIAL SAFETY DATA SHEET**

### **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.