

## MATERIAL SAFETY DATA SHEET

### n- TRIACONTANOL 0.10% EW MIRACLE

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#### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: **n- TRIACONTANOL 0.10% EW  
MIRACLE**

Supplier: **CHEMINOVA INDIA LIMITED**  
242/P, GIDC Estate,  
Panoli - 394 116  
Dist. – Bharuch  
Gujarat State (INDIA)

Emergency Telephone No. 0091 2646 – 645843/46/47/53/56/57.

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

n- TRIACONTANOL

2.1	CAS no. ....	593-50-0
2.2.	Chemical Characterization.....	Plant growth regulator
2.3.	Active Ingredient .....	n- Triacontanol : 0.10%

#### 3. HAZARDS IDENTIFICATION

3.1.	Emergency overview	No data available
3.2.	Health hazards (acute and chronic)	Material may be irritating to the mucous membrane and upper respiratory tract. May be harmful by inhalation, injection or skin absorption. May cause eye, skin or respiratory system irritation. The toxicological properties of this compound have been not fully evaluated.
3.2.	Sign & Symptoms of exposure	No data available

#### 4. FIRST AID MEASURES

4.1.	Emergency and First Aid Procedures	Eyes contact: Irrigate with clean water for at least 15 minutes. Seek medical attention if any irritation or redness persists. Skin contact: Wash with soap and water. Swallowing: Do not vomit, product may get into lungs. Rinse mouth and drink plenty of water. Consult doctor, show this data sheet.
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Inhalation: Remove from exposure and provide maximum ventilation.

## 5. FIRE-FIGHTING MEASURES

- |      |                                    |  |
|------|------------------------------------|--|
| 5.1. | Extinguishing Media and Procedure  | Dry chemical or carbon dioxide for small fires, water spray or foam for large fires.<br>Use water spray to keep fire-exposed containers cool. Approach fire from upwind to avoid hazardous vapours and toxic decomposition products. Fight fire from protected location or maximum possible distance. Avoid heavy hose streams. Dike area to prevent water runoff. Fireman should wear self-contained breathing apparatus and protective clothing. |
| 5.2. | Unusual Fire and Explosion Hazards | See 10.1.  |

## 6. ACCIDENTAL RELEASE MEASURES

- |      |  |  |
|------|--|--|
| 6.1. | Person related safety precautions..... | Supply rooms with fresh air, keep away ignition sources avoid contact with eyes and skin, and wear suitable protective clothing. |
| 6.2. | Measure for environmental protection   | If released into water, inform authority.  |
| 6.3. | Measure for cleaning / collecting...   | Use absorbers for liquids ( sand, sawdust, acid/ universal binders)  |

## 7. HANDLING AND STORAGE

- |      |                                     |   |
|------|-------------------------------------|---|
| 7.1. | Precautions to Be Taken in Handling | During use of product do not eat, drink and smoke, keep ignition sources away.  |
| 7.2. | Precautions to Be Taken in Storing  | Protect from freezing and direct sunlight, Storage temperature ambient. Keep packages tightly closed. Keep away ignition sources. Store separately from food and feedstuff. |

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- |      |                              |  |
|------|------------------------------|--|
| 8.1. | Respiratory Protection ..... | In case of insufficient ventilation, wear a respirator in conformity with local regulations..    |
|      | Protective Gloves .....      | Wear chemical resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber or viton. |
|      | Eye Protection .....         | Wear safety glasses.   |
|      | Other Protection .....       | Wear water-proof pants, coat, hat , rubber boots or rubber overshoes..                           |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- |      |                                   |                           |
|------|-----------------------------------|---------------------------|
| 9.1. | Physical State .....              | Liquid                    |
| 9.2. | Colour .....                      | Greenish fluoresce liquid |
| 9.3. | Odour .....                       | Characteristic            |
| 9.4. | Specific Gravity (at 20°C.) ..... | 0.9980 g/ ml              |
| 9.5. | Boiling Point .....               | 100°C                     |
| 9.6. | Flash Point .....                 | Above 100°C               |
| 9.7. | Viscosity.....                    | 10 CPS at 20° C           |
| 9.8. | Solubility in Water .....         | Fully miscible with water |
| 9.9. | pH at 20° C.....                  | 9.5 to 10.50              |

## 10. STABILITY AND REACTIVITY

- |       |   |                                  |
|-------|---|----------------------------------|
| 10.1. | Hazardous Decomposition or Byproducts ..... | Carbon dioxide & Carbon monoxide |
|-------|---|----------------------------------|

- 10.2. Condition to be avoided ..... No data available.  
10.3. Dangerous reaction ..... No dangerous reactions known.

#### **11. TOXICOLOGICAL INFORMATION**

- 11.1. Health Hazards ..... See 3.1.  
11.2. Acute Toxicity ..... None.  
Primary irritant effect - Skin ..... Frequent and long term use may irritate skin.  
- Eye ..... Irritant effect.  
11.3. Sensitisation..... No sensitization effects known.

#### **12. ECOLOGICAL INFORMATION**

General Information: If used properly, the product is not hazardous to water. However, the product must not be released in great quantities into waters and sewage pipes.

#### **13. DISPOSAL CONSIDERATIONS**

- 13.1. Waste Disposal Method ..... Spill and waster disposal procedures in conformity with state and local regulations must be followed.  
Do not contaminate water, foodstuffs, feed or seed by storage or disposal.  
13.2. Container Disposal ..... Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill.  
However, procedures in conformity with state and local regulations must be followed.

#### **14. TRANSPORT INFORMATION**

**UN Classification** ..... Not classified as dangerous goods.  
Acc. To ADR/RID, GGVS/GGVE, IMDG/GGVSee, ICAO-TI/IATA-DGR

#### **15. REGULATORY INFORMATION**

- 15.1. **IN THE EU:**  
R - Phrases ..... R/66 Repeated contact could cause chapped skin.  
S - Phrases .....  
S 2 Keep out of reach of children  
S 13 Keep away from food, drink, and animal feeding stuffs  
S 23 gas/ fumes/ vapor/ spray cannot breathe.  
S 24/25 Avoid contact with skin and eye.  
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice,  
S36/39 Wear suitable protective clothing. Wear suitable gloves. In case of insufficient ventilation, wear suitable respiratory equipment,  
Wear eye / face protection.  
S 62 If swallowed, do not vomit, seek medical advice immediately.

**16. OTHER INFORMATION**

This material should only be used by persons who have been instructed in all safety precautions required and otherwise are familiar with content of data sheet.

**Emergency Telephone Number** (0091) –22-26542209,26542241(H.O.,Cheminova (I) Ltd. Mumbai)  
(0091) –2646-645843/46/47/53/56/57. Factory,Cheminova (I) Ltd. Panoli)

Address :

Head Office : CHEMINOVA INDIA LTD.  
'Keshava Building', Bandra Kurla Complex,  
Bandra (E),Mumbai- 400 051 (INDIA)

Factory Address : CHEMINOVA INDIA LTD.  
( Formulation Division)  
242/P, GIDC Estate  
Panoli – 394 116  
Dist. Bharuch  
Gujarat State (INDIA)

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