



# LASA LABORATORY PVT. LIMITED

## MATERIAL SAFETY DATA SHEET

### SECTION 1. PRODUCT IDENTIFICATION

**Product Name:** TRICLABENDAZOLE

**Chemical Formula:** C<sub>14</sub>H<sub>9</sub>Cl<sub>3</sub>N<sub>2</sub>OS

**Synonym:** 5-Chloro-6-(2, 3-dichlorophenoxy)-2-(methylthio)-1H-benzimidazole

**Company Identification:** Lasa Laboratory Pvt Limited  
C-105, MIDC, Mahad (Dist. - Raigad), Pin: 402302  
Telephone No. - +91-251-2694321/2697340.

### SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS#	Chemical Name	Percent by Weight
68786-66-3	Triclabendazole	98.0 %

### SECTION 3. HAZARD IDENTIFICATION

Emergency Overview: Irritating to eyes, respiratory system and skin.

Potential Health Effects

Eye: Causes eye irritation. May cause chemical conjunctivitis.

Skin: Causes skin irritation.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. The toxicological properties of this substance have not been fully investigated.

Inhalation: Causes respiratory tract irritation. The toxicological properties of this substance have not been fully investigated. Can produce delayed pulmonary edema.

Chronic: Effects may be delayed.



# LASA LABORATORY PVT. LIMITED

## SECTION 4. FIRST AID

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin:** Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

**Ingestion:** Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupful of milk or water. Wash mouth out with water.

**Inhalation:**

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation.

**Notes to Physician:**

Treat symptomatically and supportively.

## SECTION 5. FIRE AND EXPLOSION

**General Information:**

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

**Extinguishing Media:**

Use water spray, dry chemical, carbon dioxide, or chemical foam.



# LASA LABORATORY PVT. LIMITED

## SECTION 6. ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

### Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation

## SECTION 7. HANDLING AND STORAGE

### Handling:

Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Use with adequate ventilation. Wash clothing before reuse. Avoid breathing dust.

### Storage:

In an airtight container, protected from light. Do not store above 23°C.

## SECTION 8. PERSONAL PROTECTION/EXPOSURE CONTROLS

### Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

### Personal Protective Equipment Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

### Skin:

Wear appropriate protective gloves to prevent skin exposure.



## Clothing:

Wear appropriate protective clothing to prevent skin exposure.

## Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid.

Color: White.

Odor: Not available.

pH: Not available.

Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: Not available

Autoignition Temperature: Not available.

Flash Point: Not available.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature: Not available.

Molecular Formula:  $C_{14}H_9Cl_3N_2OS$

Molecular Weight: 359.66

## SECTION 10. REACTIVITY/STABILITY

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Dust generation.

Incompatibilities with Other Materials: Acids, bases, reducing agents, strong oxidizing agents.



# LASA LABORATORY PVT. LIMITED

Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, oxides of sulfur, carbon dioxide.  
Hazardous Polymerization: Has not been reported.

## SECTION 11. TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 68786-66-3: LD50/LC50:

CAS# 68786-66-3: Draize test, rabbit, eye: 100 mg/24H Moderate;

Oral, mouse: LD50 = 300 mg/kg; Oral, rabbit: LD50 = 3200 mg/kg; Oral, rat: LD50 = 980 mg/kg.

Carcinogenicity:

Salicylamide -

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

## SECTION 12. ECOLOGICAL INFORMATION

Not available

## SECTION 13. DISPOSAL

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## SECTION 14. TRANSPORTATION

IATA

Shipping Name: Not available.

Hazard Class: Not available.

UN Number: Not available.

Packing Group: Not available.



# LASA LABORATORY PVT. LIMITED

## IMO

Shipping Name: Not available.

Hazard Class: Not available.

UN Number: Not available.

Packing Group: Not available.

## RID/ADR

Shipping Name: Not available.

Hazard Class: Not available.

UN Number: Not available.

Packing group: Not available

## SECTION 15. REGULATORY INFORMATION

### European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN

Risk Phrases:

R 22 Harmful if swallowed.

Safety Phrases:

WGK (Water Danger/Protection)

CAS# 68786-66-3 United Kingdom Occupational Exposure Limits

United Kingdom Maximum Exposure Limits

Canada

CAS# 68786-66-3 is listed on Canada's DSL List.

CAS# 68786-66-3 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

US FEDERAL

TSCA

CAS# 68786-66-3 is listed on the TSCA inventory.



# LASA LABORATORY PVT. LIMITED

## SECTION 16 - ADDITIONAL INFORMATION

This document is intended only as a guide to the appropriate precautionary handling of material by a person trained in chemical handling. The user is responsible for determine the precautions & dangers of this chemical for his or her particular application depending on usage. Adequate protective clothing, including eye / face guards, approved respirators must be used to avoid contact with the material or breathing chemical vapors / fumes. Exposure to this product may cause adverse health effects.

This chemical may interact with other substances. Since the potential uses are so varied, M/s. **Lasa Laboratory Pvt Limited.** cannot warn of all of the potential dangers of use or interaction with chemicals of materials. M/s. **Lasa Laboratory Pvt Limited.** warrants that, the chemical meets the specifications set forth on the test report.

M/s. **Lasa Laboratory Pvt Limited.** Disclaims any other warranties expressed or implied with regard to the product supplied hereunder its merchantability or its fitness for a particular purpose. The user should recognize that, this product can cause severe injury, especially if improperly handled or the known dangers of use are not heeded.

READ ALL PRECAUTIONARY INFORMATIONS.

Version Number: 01

Date: 13-Sep-2013