

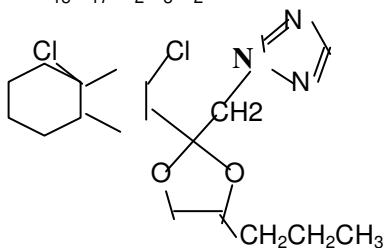
# LEADRITE 25

## SECTION I. IDENTIFICATION OF THE COMPANY/ UNDERTAKING AND OF THE SUBSTANCE/ PRODUCT

**Manufacturer:** **Makhteshim Chemical Works Ltd.**  
 PO Box 60 Beer Sheva 84100, Israel  
 Telephone Number: 972-3-6100-6666 Fax Number: 972-7-629-6848

**Distributor:** **TIMBERMATE - HMT INDUSTRIES CORP.**  
 6 carlo Drive, Sta. Maria Industrial Estate Bagumabayan, Taguig, MM  
 (02) 8354 - 5535  
 www.hmtradingphil.com

**Product Name:** **LEADRITE 25**  
**Active Ingredient:** Propiconazole  
**Chemical Name:** (±)-1-[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl)methyl]-1H-1,2,4-triazole  
**Chemical Family:** Triazole  
**Empirical Formula:** C<sub>15</sub>H<sub>17</sub>Cl<sub>2</sub>N<sub>3</sub>O<sub>2</sub>  
**Structural Formula:**



## SECTION II. COMPOSITION/ INFORMATION ON INGREDIENTS

Common Name	CAS Number	% Content
Propiconazole	60207-90-1	25

## SECTION III. FIRST AID MEASURES

**General Advice:** Remove the patient from immediate source of exposure and assure that the individual is breathing. If not breathing, use cardiopulmonary resuscitation or artificial respiration

**Inhalation:** Bring victim to fresh air. If not breathing, apply artificial respiration and immediately get medical advice if symptoms persist.

**Ingestion:** Wash out mouth with water. Keep patient at rest and get medical attention immediately.

**Skin Contact:** Remove contaminated clothing. Wash with plenty of water and soap including hair and under fingernails. Do not attempt to neutralize with chemical agents. Get medical care if irritation occurs.

**Eye Contact:** Immediately flush eyes with a large amount of running water. Hold eyelids apart while flushing to ensure the entire surface of the eye and lids are rinsed with water. Do not attempt to neutralize with chemical agents. Get medical care.

**NOTES TO PHYSICIAN:** There is no specific antidote if Leadrite 25 is ingested. Check for possible mucosal damage before performing gastric lavage. If inhaled, observe for delayed onset of pulmonary edema. Treat central nervous system effects symptomatically.

## SECTION IV. FIRE FIGHTING MEASURES

**Suitable extinguishing media:** Use dry chemical, foam or carbon dioxide extinguishing media

**Specific Hazard:** Thermal decomposition products may include hydrogen cyanide.

**Specific Protective Equipment:** Wear protective clothing and use self-contained breathing apparatus.

**Specific Methods:** Treat as liquid chemical type fire where discharge to the environment should be controlled as quickly as possible. Dike area to prevent spill.

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## SECTION V. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear appropriate safety clothing.
Environmental Precautions:	Collect all waste material and place in closed marked containers. Dike runoff to prevent entry to water or drainage systems.
Methods for cleaning up:	Contain and sweep up the material. For large spills, barricade area and consult manufacturer.

## SECTION VI. HANDLING AND STORAGE

Handling:	Wash hands and exposed skin before eating, drinking or smoking and after work.
Storage:	Store in cool, dry well-ventilated area in original container.

## SECTION VII. EXPOSURE / PERSONAL PROTECTION

<u>Common Name</u>	<u>National Occupational Exposure Limits</u>
Propiconazole	TLV-TWA: None
Engineering Measures to reduce exposure	Develop written safety and inspection procedures. Warehouses, production areas, parking lots and waste holding facilities must have adequate containment to prevent environmental contamination. Provide separate shower and eating facilities.
<u>Personal Protective Equipment</u>	
Respiratory Protection:	Use NIOSH/MSHA approved respirator for pesticide mist.
Hand Protection:	Use impervious gloves
Eye Protection:	Use safety glasses.
Skin and Body Protection:	Wear clean long-sleeved, body covering clothing boots
Hygiene Measures:	Wash hands and exposed skin thoroughly after handling/working before eating, smoking. Wash clothing separately before reuse.

## SECTION VIII. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Color, Odor:	Clear tan, Solvent Odor
Specific Gravity:	0.995-1.005
Boiling Point:	180 °C/0.1 mmHg
Decomposition Temperature	above 150 °C (Technical Material)
Vapor Pressure	0.13 mPa at 20 °C
Flash Point:	107 °C (Closed cup)
Auto ignition Point:	265 °C
Flammability:	Non-flammable

## SECTION IX. STABILITY AND REACTIVITY

Stability	Stable under normal storage conditions. Hazardous polymerization will not occur.
Conditions to Avoid	Heat or open flame. Sunlight
Hazardous Decomposition Products:	Thermal condition products include oxide of nitrogen, carbon and hydrogen chloride products

## SECTION X. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity:	LD50 = >2000 mg/Kg (rat)
Acute Dermal Toxicity:	LD50 = >2000 mg/Kg (rat)
Acute Inhalation Toxicity:	LC50 = 9.46 mg/L at 4 Hrs (rat)
Skin Irritation:	Non-irritant (rabbit)
Eye Irritation:	Non-irritant (rabbit)
Sensitization:	Non-sensitizer (guinea pig)

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Chronic Toxicity: Non-carcinogenic (rats), non-teratogenic, no reproduction hazards effects observed (rats, rabbits). Increased incidence of liver tumors in male mice at extremely high doses (2500 ppm).

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## SECTION XI. ECOLOGICAL INFORMATION

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Mobility\* Neither the parent compound nor the major metabolite, 1,2-4 triazole penetrate the soils deeply and thus little if any ground water contamination would be expected.

Persistence/degradability\* Propiconazole undergoes fairly slow microbial degradation in aerobic conditions in soil sediment and water (Half life = 70 days)

Bioaccumulation\* BCF (whole fish) = 24 mg/L  
BCF (lipid) = 233 mg/L. Total depuration achieved over 14 days.

Ecotoxicity\* When applied at label rates, propiconazole is not expected to pose a direct hazard to wild birds or mammals or terrestrial or aquatic invertebrates. Bumper 25 EC is practically non toxic to bees, birds and slightly toxic to fish.

\* Technical Material

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## SECTION XII. DISPOSAL CONSIDERATIONS

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Waste from Residues/ Unused Products Dispose off in accordance with local, state and federal regulations.

Contaminated Packaging Same as wastes from residues

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## SECTION XIII. TRANSPORT INFORMATION

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Not classified

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## SECTION XIV. REGULATORY INFORMATION

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Classification according to European directive on classification of dangerous substance 93/72/EEC.  
Not classified.

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## SECTION XV. OTHER INFORMATION

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Recommended Use: Fungicide for wood protection

The information contained in this Material Safety Data Sheet is correct to the best of our knowledge at the date of issue. It is not intended as a guide for the safe use, handling, disposal, storage and transportation and is not a warranty or as a specification. This information relates only to the product specified and may not be suitable for combinations with other materials or in the process other than those specifically described herein.