



**Material Safety Data Sheet (MSDS)**  
**Decabaz 25 EC**

**IDENTIFICATION OF THE SUPPLIER:**

**AGRO CHEMICALS INDUSTRIES LTD**  
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**PRODUCT IDENTIFICATION:**

**Common Name:** Deltamethrin 2.5% w/v  
**Trade Name:** Decabaz 25 EC  
**Chemical Name:** (S)- $\alpha$ -cyano-3-phenoxybenzyl (1R, 3R)-3-(2,2-dibromovinyl)-2,2-dimethylcyclopropanecarboxylate.  
**Chemical Formula:** C<sub>22</sub>H<sub>19</sub>Br<sub>2</sub>NO<sub>3</sub>  
**Molecular Weight:** 505.2

**PRODUCT COMPOSITION:**

<i>Active Ingredient:</i>	<i>% w/v</i>	<i>CAS #</i>
Deltamethrin	2.5 %	[52918-63-5]
<i>Inert ingredient:</i>		
Emulsifier	7 %	--
Solvent	Up to 100%	--

**HAZARDOUS IDENTIFICATION:**

**Risk and safety phrases:** Harmful by inhalation and if swallowed.  
Irritating to respiratory system. Risk of serious damage to eyes. Harmful :  
danger of serious damage to health by prolonged  
**exposure if swallowed. Harmful:** may cause lung damage if swallowed.  
Repeated exposure may cause skin dryness or cracking.



**Dangerous Product Flammable.** May form flammable vapour-air mixture.

**Environmental hazard** Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Inhalation Harmful.** Inhalation of vapours may cause respiratory irritation. Overexposure to vapours may result in headache, nausea and reduced blood pressure.

**Skin contact** Redness, pain. May cause skin to become dry or cracked.

**Eye contact** Direct contact with the eyes is likely irritating.

**Ingestion** Abdominal pain, nausea. Harmful: may cause lung damage if swallowed

### FIRST-AID MEASURES:

**Eye contact:** Redness, tears.

**First Aid:**

**Inhalation:** Remove victim to fresh air. Keep victim warm and at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.

**Ingestion:** Do not induce vomiting. Wash out mouth with plenty of water. Never give anything by mouth to an unconscious person. Seek medical advice.

**Skin contact:** Consult a doctor in the event of any complaints.

Remove affected clothing and wash all exposed skin area with soap and water, followed by warm water rinse.

**Eye contact:** In case of eye contact, immediately rinse with clean water for 10-15 minutes. Seek medical attention immediately.

### FIRE-FIGHTING MEASURES: -

**Extinguishing media:** Not flammable. Combustible.

In case of fire, use: water spray, water fog, foam.

**Special procedures:** Fight fires from a protected location. Move containers away from fire without risk. Dike fire control water for later disposal. Cool exposed containers with water spray.

**Special exposure hazards:** Thermal decomposition generates: carbon dioxide, carbon monoxide, nitrogen oxides, bromides, hydrogen bromide.

**Protection against fire:** Wear proper protective equipment. Wear self-contained breathing apparatus, rubber boots and thick rubber gloves.





## ACCIDENTAL RELEASE:

**Personal precautions:** Use appropriate protection. During cleaning activity, shut off ignition sources.

**Environmental precautions:** Dispose of this material and its container at hazardous or special waste collection point. If the product has contaminated surface water, inform the appropriate authorities. Contaminated soil layers have to be dug out.

**After spillage and/or leakage:** In the event of minor spillage: Absorb in sand or other inert material. Use appropriate container to avoid environmental contamination.

In the event of major spillage: Collect and contain as much free liquid as possible. Dike spills using absorbent or impervious materials such as sand or clay for later disposal.

## STABILITY AND REACTIVITY:

**Physico-chemical stability** Stable.

**Hazardous decomposition products** According to process conditions, hazardous decomposition products may be generated.

Thermal decomposition generates: Carbon dioxide. Carbon monoxide. Nitrogen oxides. Halogens.

**Materials to avoid:** Strong acids. Strong oxidizers.

**Hazardous reactions:** May release flammable gases.

**Conditions to avoid** Open flame. Sparks. Overheating.

## PERSONAL PROTECTION/SAFETY:

**Industrial hygiene:** Ventilation required. Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower. Wash clothing before re-using. Wash hands thoroughly after handling.

### Occupational Exposure Limits

**TLV:** Deltamethrin: Not established

- **Respiratory protection:** During spraying wear suitable respiratory equipment.
- **Skin protection:** Wear suitable protective clothing and chemical resistant boots.
- **Hand protection:** Wear suitable gloves.
- **Eye protection:** Chemical goggles or safety glasses.





## HANDLING AND STORAGE:

**Handling:** Do not breathe fumes. Avoid contact with skin and eyes.

**Storage:** Keep container tightly closed. Keep locked up. Keep only in the original container in a cool, well ventilated place. Keep at temperature not exceeding 50 °C. Keep container dry.

## TOXICOLOGICAL INFORMATION:

**Rat oral LD50 [mg/kg]:** 430

**Rat dermal LD50 [mg/kg]:** > 2000

**Rat inhalation LC50 [mg/l/4h]:** 1.25

**Dermal irritation (rabbit):** Irritating to skin.

**Eyes irritation (rabbit):** Irritating to eyes.

**Sensitization:** Guinea pig maximization test: Non sensitizer

**Carcinogenicity:** Deltamethrin: Not carcinogenic

## ECOLOGICAL INFORMATION: -

**Ecological effects information:** The data below are for Deltamethrin.

**LD50 Birds [mg/kg]:** > 5000 (Mallard duck)

**Birds LC50 [mg/kg]:** 10000 (Bobwhite quail)

**LC50 - fish [mg/l]:** 0.001 - 0.01

## DISPOSAL CONSIDERATIONS:

Triple rinse container and add residue to spray tank. Return empty container to an AgRecovery collection point for disposal.

Empty container precautions: Avoid contamination of any water supply with chemical or empty container

