

# MATERIAL SAFETY DATA SHEET

## LAMDEX 5 EC

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

**Product name** : LAMDEX 5 EC  
**Code no.** : R-10846.DPD  
**Manufacturer** : Makhteshim Chemical Works, Ltd.  
 P.O.B. 60, Beer Sheva 84100, Israel.  
 Fax no.: 972-8-6296848-(364)  
**Emergency telephone number** : 972-3-6106666  
 Subscription no.: 36789 (MAKHTESHIM)

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance/preparation** : Preparation.

**Information on hazardous ingredients** \*

| Common name          | CAS No.    | %           | EC Number | Symbol | R-Phrases       |
|----------------------|------------|-------------|-----------|--------|-----------------|
| Lambda-cyhalothrin   | 91465-08-6 | 5           | 415-130-7 | T+, N  | R21-25-26-50/53 |
| Alkylaryl sulfonates | -          | > 1%        | -         | Xi     | R36/38          |
| Solvesso 150         | 64742-94-5 | Approx. 87% | 265-198-5 | Xn     | R65             |

\* *Occupational Exposure Limit(s), if available, are listed in section 8*

### 3. HAZARDS IDENTIFICATION

**Human health hazards** : Harmful by inhalation.  
 Harmful if swallowed.  
 Irritating to skin.  
 Risk of serious damage to eyes.  
 Harmful: may cause lung damage if swallowed.  
**Environmental hazards** : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 4. FIRST-AID MEASURES

**Effects and symptoms**

**First-aid measures**

**Inhalation** : Remove victim to fresh air. Keep victim warm and at rest.  
 Get medical attention.  
**Ingestion** : Do not induce vomiting. Wash out mouth with water. Immediately get medical attention.  
**Skin contact** : Remove contaminated clothing. Wash off with plenty of water and soap.  
 Consult a doctor in the event of any complaints. Wash clothing separately before re-use.  
**Eye contact** : Wash out with plenty of water with the eyelid held wide open for at least 15 minutes. Immediately get medical attention.  
**Notes to a physician** : There is no specific antidote. Treat symptomatically and give supportive therapy.

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### 5. FIRE-FIGHTING MEASURES

#### Extinguishing media

##### **Suitable**

: If involved in fire:  
In case of a small fire: foam, dry chemical, carbon dioxide.  
In case of a large fire : Water spray, fog or regular foam.

##### **Not suitable**

: Avoid use of water jet.

#### **Special fire-fighting procedures**

: Fight fires from a protected location. Dike fire control water for later disposal.

#### **Hazardous thermal**

: Toxic and irritating fumes.

#### **(de)composition products**

#### **Protection of fire-fighters**

: Wear suitable protective clothing; self-contained breathing apparatus.

### 6. ACCIDENTAL RELEASE MEASURES

#### **Personal precautions**

: Wear suitable protective clothing and eye/face protection, chemical resistant gloves and boots.

#### **Environmental precautions**

: Do not discharge into drains or the environment. If the product has contaminated surface water, inform the appropriate authorities.

#### **Methods for cleaning up**

: Absorb in sand or other inert material. Transfer to a container for disposal. Wash the spillage area with water, but prevent washings from entering surface water drains.

### 7. HANDLING AND STORAGE

#### **Handling**

: Avoid contact with skin and eyes. Do not breathe spray. Do not breathe vapour.

When using do not eat, drink or smoke.

Wash hands after working with the product.

#### **Storage**

: Keep locked up. Keep container tightly closed. Keep only in the original container in a cool, well-ventilated place.

Avoid exposure to excessive heat or cold.

#### Packaging materials

##### **Suitable**

: Coextruded polyethylene bottles.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Engineering measures**

: Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.

#### **Hygiene measures**

: Wash hands thoroughly after handling. Wash clothing separately before re-use.

#### **Occupational Exposure Limits**

##### Common name

: **Lambda-cyhalothrin**

: TLV - Not established.

##### Personal protective equipment

: Read the label before use.

##### **Respiratory system**

: During spraying wear suitable respiratory equipment.

##### **Skin and body**

: Wear suitable protective clothing.

##### **Hands**

: Wear suitable gloves.

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**Eyes** : Safety goggles or face shield.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state** : Liquid  
**Colour** : Clear, yellowish  
**Odour** : Aromatic  
**Density** : 0.915 - 0.925  
**pH** : 7 - 9  
**Flash point** : 63° C.  
**Flammability** : Not flammable.

### 10. STABILITY AND REACTIVITY

**Stability** : Stable under normal conditions.  
**Conditions to avoid** : Protect from (sun)light, open flame and sources of heat. Decomposes upon heating.  
**Materials to avoid** : Avoid contact with: strong acids and strong bases.  
**Hazardous reactions** : None known.  
**Hazardous decomposition products** : Toxic and Irritating vapour.

### 11. TOXICOLOGICAL INFORMATION

**Acute toxicity - Oral** : LD<sub>50</sub> = 500 mg/kg (female, rat) .  
**Acute toxicity - Dermal** : LD<sub>50</sub> > 2000 mg/kg. (rat)  
**Acute toxicity - Inhalation** : LC<sub>50</sub> = 4.2 mg/l. (rat)  
**Skin irritation** : Mildly irritating (rabbit).  
**Eye irritation** : Severely irritating (rabbit).  
**Sensitization** : Not available.

### 12. ECOLOGICAL INFORMATION

**Common name** : **Lambda-cyhalothrin**  
**Ecotoxicity** : Birds: LD<sub>50</sub> > 3950 mg/kg (mallard duck).  
Fish: LC<sub>50</sub> = 0.36 µg/l, 96 hours, (rainbow trout).  
Daphnia: EC<sub>50</sub> = 0.36 µg/l, 48 hours.  
Algae: ErC<sub>50</sub> >1000 µg/l, 96 hours.

### 13. DISPOSAL CONSIDERATIONS

**Methods of disposal** : Disposal according to the local legislation.

### 14. TRANSPORT INFORMATION

**International transport regulations**  
**UN number** : 3352

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**Land - Road/Railway**

**Proper shipping name** : Pyrethroid pesticide, liquid, toxic (50 g/l Lambda-cyhalothrin).  
**ADR/RID Class** : 6.1  
**Packing group** : III

**Inland waterways**

**Sea**

**Proper shipping name** : Pyrethroid pesticide, liquid, toxic (50 g/l Lambda-cyhalothrin).  
**IMDG Class** : 6.1  
**Packing group** : III

**Air**

**Proper shipping name** : Pyrethroid pesticide, liquid, toxic (Lambda-cyhalothrin).  
**UN/ID Number** : 3352

**National transport regulations**

No additional national transport regulations are known to the supplier

**15. REGULATORY INFORMATION**

**Classification** : EU Classification (67/548/EEC):  
**Hazard symbol(s)** : Xn, N



HARMFUL



DANGEROUS FOR THE ENVIRONMENT (N)

**Risk phrases** : R20: Harmful by inhalation.  
R22: Harmful if swallowed.  
R38: Irritating to skin.  
R41: Risk of serious damage to eyes.  
R65: Harmful: may cause lung damage if swallowed.  
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety phrases** : S23: Do not breathe gas/fumes/vapour/spray.  
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S37: Wear suitable gloves.  
S38: In case of insufficient ventilation, wear suitable respiratory equipment.  
S39: Wear eye/face protection.  
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
S61: Avoid release to the environment. Refer to special instructions/Safety data sheets.  
S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

**Contains** : 5% lambda-cyhalothrin.

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**16. OTHER INFORMATION**

**Recommended use** : Insecticide.

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

**Text of Risk phrases in section 2:**

R21: Harmful in contact with skin

R25: Toxic if swallowed

R26: Very toxic by inhalation

R36/38: Irritating to eyes and skin

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R65: Harmful: may cause lung damage if swallowed

**HISTORY**

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**Date of issue** : 03/24/2004

**Version** : 001.00.00

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