



MAKHTESHIM
CHEMICAL WORKS LTD.

MATERIAL SAFETY DATA SHEET

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Revised edition no : 1

Date : 18/10/2004

Supersedes : 0/0/0

SEIZER 10 EC

R-10854.G

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

Trade name : SEIZER 10 EC
Chemical formula : C₂₃H₂₂CIF₃O₂
Common name of active ingredients : Bifenthrin
Use : Insecticide
Company identification : Makhteshim Chemical Works Ltd.
PO Box 60
Beer Sheva 84100 Israel.
Fax : +972-8-6296848-(364)
Emergency phone nr : 972-3-6106666 Subscription no. 36789 (Makhteshim)

2. COMPOSITION / INFORMATION ON INGREDIENTS

This product is considered to be hazardous and contains hazardous components.

Substance name	Value(s)	CAS No	EC No	Index No	Classification
Bifenthrin	: 10 %	082657-04-3	-----	-----	
Solvesso 150	: ca 70 %	064742-94-5	265-198-5	-----	Xn; R65
Alkylaryl sulfonates	: 3 %	-----	-----	-----	Xi; R36/38

3. HAZARDS IDENTIFICATION

Human Health Hazards : Harmful if swallowed.
Irritating to eyes and skin.
Harmful: may cause lung damage if swallowed.
Environmental hazard : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

Undesirable human health effects : Irritating to mucous membranes and skin . High doses may result in symptoms of central nervous system . May cause damage to liver .
Inhalation : Coughing , shortness of breath , bronchospasm , chemical pneumonitis , lung oedema .
Ingestion : Nausea , vomiting , stomach ache , diarrhoea .
Skin contact : Redness , dermatitis .
Eye contact : Redness , conjunctivitis .
First aid
Inhalation : Remove victim to fresh air. Keep victim warm and at rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention.
Ingestion : Do not induce vomiting. Wash out mouth with plenty of water. Immediately get medical attention.
If ingested perform gastric lavage and administer activated charcoal.
Skin contact : Remove affected clothing and wash all exposed skin area with soap and water, followed by warm water rinse. Consult a doctor in the event of any complaints.
Eye contact : Wash off with plenty of water. Consult an eye specialist .
Note to physician : There is no specific antidote. Treat symptomatically and give supportive therapy.



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5. FIRE-FIGHTING MEASURES

- Extinguishing media** : For small fire : dry chemical , carbon dioxide .
For large fire: water spray , water fog , foam .
- Special procedures** : Fight fires from a protected location . Dike fire control water for later disposal .
Do not discharge into the environment .
- Special exposure hazards** : Thermal decomposition generates : carbon dioxide , carbon dioxide , hydrogen chloride , HF .
- Protection against fire** : Wear suitable protective clothing. Self-contained breathing apparatus. Move containers away from fire without risk .

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Use appropriate protection (see section 8)
- 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.
- After spillage and/or leakage** : Use appropriate container to avoid environmental contamination. Collect spilled material . Absorb in sand or other inert material .

7. HANDLING AND STORAGE

- Handling** : Wear suitable protective clothing. Use breathing apparatus.
- Storage** : Keep locked up. Keep container tightly closed . Keep only in the original container in a cool, well ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Industrial hygiene** : Wash hands thoroughly after handling. Wash clothing before re-using.
- Occupational Exposure Limits** : No occupational exposure limits have been established .
- Personal protection**
- **Respiratory protection** : During spraying wear suitable respiratory equipment.
 - **Skin protection** : Wear protective clothing .
 - **Hand protection** : Wear suitable gloves.
 - **Eye protection** : Chemical goggles or safety glasses.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state** : Liquid
- Colour** : Clear - yellowish
- Odour** : Slight aromatic
- Molecular weight** : Bifenthrin : 422.9
- Density** : 0.915-0.925 g/ml
- Flash point [°C]** : 67

10. STABILITY AND REACTIVITY

- Physico-chemical stability** : Stable under normal conditions.
- Hazardous decomposition products** : Thermal decomposition generates : carbon dioxide , carbon monoxide , hydrogen chloride , HF , smoke .
- Hazardous reactions** : Combustible . If involved in fire: Emits Hazardous thermal (de)composition products .
- Materials to avoid** : Avoid contact with : oxidizing agents .



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10. STABILITY AND REACTIVITY (continued)

Conditions to avoid : Excessive heat and fire .

11. TOXICOLOGICAL INFORMATION

Rat oral LD50 [mg/kg] : 300-2000
Rat dermal LD50 [mg/kg] : >4000
Rat inhalation LC50 [mg/l/4h] : >5.25
Dermal irritation (rabbit) : Irritant
Eyes irritation (rabbit) : Irritant
Sensitization : Guinea pig maximization test: Non sensitizer
Carcinogenicity : Not carcinogenic
Reproductive toxicity : Not teratogenic in animal experiments

12. ECOLOGICAL INFORMATION

On product : The data below are for Bifenthrin Tech.:
96 H-LC50 - Rainbow trout [µg/l] : 0.15
48 H-LC50 - Daphnia magna [µg/l] : 0.16
LD50 Birds [mg/kg] : >2150 (Mallard duck)
Birds LC50 [mg/kg] : 1800 (Bobwhite quail)

13. DISPOSAL CONSIDERATIONS

Disposal : Dispose of this material and its container at hazardous or special waste collection point.

14. TRANSPORT INFORMATION

- UN No. : 3352
- Proper shipping name : PYRETHROID PESTICIDE, LIQUID, TOXIC (10% Bifenthrin)
- Packing group : III
- Class : 6.1
- H.I. nr : 60
- ADR/RID
- ADR class : 6.1
- ADR Packing group : III
- IMDG-Marine pollution : Yes.

15. REGULATORY INFORMATION

EU Classification : Not classified by the EU
Symbol(s)



R Phrase(s)

: Xn: Harmful.
N: Dangerous for the environment.
: R22 - Harmful if swallowed.
R36/38 - Irritating to eyes and skin.
R65 - Harmful : may cause lung damage if swallowed.

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15. REGULATORY INFORMATION (continued)

S Phrase(s)

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

: S13 - Keep away from food, drink and animal feedingstuffs.
 S20 - When using do not eat or drink.
 S24/25 - Avoid contact with skin and eyes.
 S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.
 S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label when 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.

16. OTHER INFORMATION

Text of R-phrases in heading 2 : R36/38 - Irritating to eyes and skin.
 R65 - Harmful : may cause lung damage if swallowed.

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