



MAKHTESHIM
CHEMICAL WORKS LTD.

MATERIAL SAFETY DATA SHEET

Page : 1 of 4

Revised edition no : 2

Date : 8 / 7 / 2009

Supersedes : 24 / 10 / 2006

ADMIRAL

R-10865.G

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

Trade name : ADMIRAL
Common name of active ingredients : Bifenthrin
Chemical formula : C₂₃H₂₂ClF₃O₂
Use : Insecticide
Company identification : Makhteshim Chemical Works Ltd.
PO Box 60
Beer Sheva 84100 Israel.
Fax : +972-8-6296848
MSDS@ma-industries.com
Emergency phone nr : +972-3-6106666 Subscription no. 36789 (Makhteshim)

2. HAZARDS IDENTIFICATION

Human health hazards : Harmful if swallowed.
Toxic by inhalation.
Irritating to eyes and skin.
Environmental hazard : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. 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	7.9 %	82657-04-3	----	----	
Condensed naphthalene sulfonate	1 %	----	----	----	Xi; R36/38

4. FIRST AID MEASURES

Undesirable human health effects : No specific effects and/or symptoms have been reported or known .
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. Consult a doctor in the event of any complaints.
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 : Wash off with plenty of water
Consult an eye specialist.
Note to physician : There is no specific antidote. Treat symptomatically and give supportive therapy.

5. FIRE-FIGHTING MEASURES

Extinguishing media : Not flammable . In case of fire, use : 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 : Carbon monoxide , carbon dioxide , hydrogen chloride , HF .
Protection against fire : Wear suitable protective clothing Self-contained breathing apparatus. Move containers away from fire without risk .

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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
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.
- 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.
Occupational Exposure Limits : No occupational exposure limits have been established .

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state** : Liquid
Colour : Opaque - White
Odour : Faint odour - Paint.
Molecular weight : 422.9 (Bifentrin)
Initial boiling point [°C] : 100
Density : 1.03 g/ml
Flash point [°C] : Not flammable

10. STABILITY AND REACTIVITY

- Physico-chemical stability** : Stable under normal conditions.
Hazardous decomposition products : Carbon dioxide , carbon monoxide , hydrogen chloride , HF , smoke .
Hazardous reactions : Not known
Materials to avoid : Avoid contact with : oxidizing agents .
Conditions to avoid : Excessive heat and fire .

11. TOXICOLOGICAL INFORMATION

- Rat oral LD50 [mg/kg]** : 630 (female)
Rat dermal LD50 [mg/kg] : >2000
Rat inhalation LC50 [mg/l/4h] : > 2.06 (male), > 0.55 (female)
Dermal irritation (rabbit) : Slight irritant
Eyes irritation (rabbit) : Mildly irritating
Sensitization : Guinea pig maximization test: Non sensitizer



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16. OTHER INFORMATION

Text of R-phrases in heading 3 : : R36/38 - Irritating to eyes and skin.

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