



MAKHTESHIM
CHEMICAL WORKS LTD.

MATERIAL SAFETY DATA SHEET

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Revised edition no : 1

Date : 19/10/2004

Supersedes : 0/0/0

DIAZOL 60 EC

R-6423.DPD

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

Trade name : DIAZOL 60 EC
Chemical formula : Diazinon : C₁₂H₂₁N₂O₃PS
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
Diazinon (ISO)	: 600 g/l	000333-41-5	206-373-8	015-040-00-4	Xn; R22 N; R50-53
Xylene	: ca 300 g/l	001330-20-7	215-535-7	601-022-00-9	R10 Xn; R20/21 Xi; R38
Calcium dodecylbenzene sulphonate	: > 1 %	-----	247-557-8	-----	Xi; R38-41
n-Butyl alcohol	: > 1 %	000071-36-3	200-751-6	603-004-00-6	R10 Xn; R22 R67 Xi; R37/38-41

3. HAZARDS IDENTIFICATION

Main hazards : THIS COMPOUND INHIBITS CHOLINESTERASE.
Physical/Chemical Hazards : Flammable
Human Health Hazards : Harmful if swallowed.
Irritating to skin.
Environmental hazard : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

Undesirable human health effects : Exposure may result in excessive sweating , weakness , salivation , nausea , bradycardia , tachycardia , bronchorrhea , cough , bronchospasm , lung oedema , small pupils , central nervous depression , fasciculation and convulsions , headache , faintness and giddiness .

First aid

Inhalation : Remove victim to fresh air. Keep victim warm and at rest. If you feel unwell, seek medical advice (show the label where possible) .

Ingestion : Do not induce vomiting. Wash out mouth with water . Never give anything by mouth to an unconscious person. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Immediately get medical attention.

Skin contact : Remove affected clothing and wash all exposed skin area with soap and water, followed by warm water rinse. Obtain medical attention.

Eye contact : Rinse immediately with plenty of water. Consult an eye specialist .

Note to physician : Antidote 1 : Atropine sulfate .
Antidote 2: Obidoxime chloride or Pralidoxime (PAM).
Suggest serum and/or RBC cholinesterase determination.
If ingested perform gastric lavage and administer activated charcoal.

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5. FIRE-FIGHTING MEASURES

- Extinguishing media** : For small fire : dry chemical , carbon dioxide .
For large fire : water spray , alcohol resistant foam .
- Special procedures** : Fight fires from a protected location . Dike fire control water for later disposal .
Keep container cool by spraying with water .
- Special exposure hazards** : When heated to decomposition, emits toxic fumes : carbon dioxide , carbon monoxide , nitrogen oxides , phosphorus oxides , sulfur oxide .
- Protection against fire** : Wear proper protective equipment. Use self-contained breathing apparatus when in close proximity to fire.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Use appropriate protection (see section 8) . During cleaning activity, shut off ignition sources .
- Environmental precautions** : Dispose of this material and its container at hazardous or special waste collection point in accordance with national and regional regulations . 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 .

7. HANDLING AND STORAGE

- Handling** : When using, do not eat, drink or smoke.
Avoid contact with skin .
- Storage** : Keep locked up. Keep container tightly closed . Keep only in the original container in a cool, well ventilated place. Keep container dry . Keep away from strong bases , sources of ignition and heat - No smoking.
- Packing** : Resin-lined metal drums .
Coextruded polyethylene bottles .
Aluminium or coextruded polyethylene containers .

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- 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** : Xylene (USA) : 434 mg/m³, A4 (1996)
- TLV-TWA [mg/m³]** : Diazinon (ISO) (USA) : 0.1, A4 skin (1999)
- Skin protection** : Wear suitable protective clothing.
- Eye protection** : Chemical goggles or safety glasses.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state** : Liquid
- Colour** : Yellow - Brownish
- Odour** : Faint odour - characteristic
- Specific gravity** : 1.02 (20°C)
- Molecular weight** : Diazinon : 304.35
- Initial boiling point [°C]** : Diazinon : 83 - 84 (0.0002 mm Hg - Pure)



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9. PHYSICAL AND CHEMICAL PROPERTIES (continued)

Vapour pressure mm/Hg	: Diazinon : $8.98 \times (10)^{-5}$ (Pure)
Solubility in water	: Emulsifiable
Flash point [°C]	: 38 (Closed cup)
Auto-ignition temperature [°C]	: Diazinon : 450
Explosion limits - lower [%]	: Xylene : 0.8
Explosion limits - upper [%]	: Xylene : 7.0

10. STABILITY AND REACTIVITY

Physico-chemical stability	: Stable under normal conditions.
Hazardous decomposition products	: Thermal decomposition generates : carbon dioxide , carbon monoxide , nitrogen oxides , sulfur oxide , phosphorus oxides .
Hazardous reactions	: Avoid contact with : strong oxidizing agents , strong acid , strong base .
Hazardous Polymerization	: Will not occur.
Conditions to avoid	: Protect from (sun)light and excessive heat . Temperature exceeding : 75 °C

11. TOXICOLOGICAL INFORMATION

Rat oral LD50 [mg/kg]	: >200 <2000
Rat dermal LD50 [mg/kg]	: >2000
Rat inhalation LC50 [mg/l/4h]	: >5.04
Dermal irritation (rabbit)	: Irritating to skin.
Eyes irritation (rabbit)	: Not irritant
Sensitization	: Non sensitizer (Buehler method)
Carcinogenicity	: Diazinon : Not carcinogenic
Mutagenicity	: Diazinon : Not mutagenic
Reproductive toxicity	: Diazinon : Not teratogenic in animal experiments

12. ECOLOGICAL INFORMATION

Ecological effects information	: The data below are for Diazinon Technical:
96 H-LC50 - Rainbow trout [mg/l]	: 3.1
48 H-EC50 - Daphnia magna [µg/l]	: Diazinon 60 EC: 1.4
LD50 Birds [mg/kg]	: 3.5
Persistence and degradability	: Half-life time (t1/2) = 1-3 weeks
Mobility	: Low mobility
Bioaccumulative potential	: Diazinon does not bioaccumulate in aquatic organisms

13. DISPOSAL CONSIDERATIONS

Disposal	: Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.
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14. TRANSPORT INFORMATION

- UN No.	: 1993
- Proper shipping name	: FLAMMABLE LIQUID, N.O.S. (600 g/l Diazinon/Xylene)
- Packing group	: III
- Class	: 3
- H.I. nr :	: 30

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14. TRANSPORT INFORMATION (continued)

- ADR/RID
- ADR class : 3
- ADR Packing group : III
- IMDG-Marine pollution : Yes.

15. REGULATORY INFORMATION

EU Classification : This product is provisionally labelled by the supplier in accordance with the suppliers understanding of the EU regulations :

Symbol(s)



R Phrase(s)

- : Xn: Harmful.
- : N: Dangerous for the environment.
- : R10 - Flammable.
- : R22 - Harmful if swallowed.
- : R38 - Irritating to skin.
- : R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S Phrase(s)

- : S02 - Keep out of the reach of children.
- : S24 - Avoid contact with skin.
- : S28 - After contact with skin, wash immediately with plenty of soap and warm water.
- : S36/37 - Wear suitable protective clothing and gloves.
- : S46 - If swallowed seek medical advice immediately and show this container or label.
- : S60 - This material and its container must be disposed of as hazardous waste.
- : S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.

16. OTHER INFORMATION

Text of R-phrases in heading 2

- : *R10 - Flammable.*
- : *R20/21 - Harmful by inhalation and in contact with skin.*
- : *R22 - Harmful if swallowed.*
- : *R37/38 - Irritating to respiratory system and skin.*
- : *R38 - Irritating to skin.*
- : *R41 - Risk of serious damage to eyes.*
- : *R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*
- : *R67 - Vapours may cause drowsiness and dizziness.*

Further information

: None.

Print date

: 19/10/2004

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