



MATERIAL SAFETY DATA SHEET

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Revised edition no : 2

Date : 9 / 7 / 2009

Supersedes : 4 / 3 / 2008

PROMANEX 360 EC

H-0078

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

Trade name : PROMANEX 360 EC
Chemical description : Alachlor(ISO): 2-Chloro-2',6'-diethyl-N-(methoxymethyl)acetanilide
Prometryn: N2,N4-di-isopropyl-6-methylthio-1,3,5-triazine-2,4-diamine
Use : Herbicide.
Company identification : Agan Chemical Manufacturers Ltd.
P.O.B. 262
ASHDOD Israel
MSDS@ma-industries.com
Emergency phone nr : +972-8-8515211

2. HAZARDS IDENTIFICATION

Physical/Chemical Hazards : Flammable.
Human health hazards : Harmful by inhalation and if swallowed. Limited evidence of a carcinogenic effect.
Irritating to skin. May cause sensitization by skin contact.
Environmental hazard : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance name	Value(s)	CAS No	EC No	Index No	Classification
Alachlor (ISO)	: 24 - 26 %	15972-60-8	240-110-8	616-015-00-6	Carc. Cat. 3; R40 Xn; R22 R43 N; R50-53
Prometryn	: 11 - 13 %	7287-19-6	230-711-3	----	
Xylene	: 41 - 45 %	1330-20-7	215-535-7	601-022-00-9	R10 Xn; R20/21 Xi; R38

4. FIRST AID MEASURES

First aid
Inhalation : Remove victim to fresh air. If breathing is difficult: artificial respiration . Get medical attention.
Ingestion : Wash out mouth with plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.
Skin contact : Remove contaminated clothing and shoes. Wash away remainder with plenty of water.
Eye contact : Wash out with plenty of water with the eyelid held wide open for at least 15 minutes. Get medical attention.
Note to physician : No specific antidote known. Treat symptomatically and give supportive therapy.
Protection of first-aiders : Use appropriate protection (see section 8).

5. FIRE-FIGHTING MEASURES

Extinguishing media : For small fire : dry chemical powder , water spray carbon dioxide
For large fire : foam , water fog , water spray.
Hazardous decomposition products : Chloride compounds , sulfur oxides , nitrogen oxides (NO, NO2...) , carbon oxides (CO, CO2) .
Protection of fire-fighters : Self-contained breathing apparatus and total protection required in enclosed areas.

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6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Wear suitable protective clothing, gloves and eye/face protection.
- Environmental precautions** : Do not empty into drains Do not discharge into the environment.
- After spillage and/or leakage** : Collect spills and put it into appropriated container. Dispose of this material and its container at hazardous or special waste collection point.
Keep away from combustible material.

7. HANDLING AND STORAGE

- Handling** : Ventilation required.
- Storage** : Keep in original containers. Keep away from food, drink and animal feeding stuffs.
Store in dry, well-ventilated area.
- Precautions in handling and storage** : Handle in accordance with good industrial hygiene and safety procedures.
- Storage - away from** : Direct sunlight .

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Engineering measures** : Ventilation required.
- Industrial hygiene** : Wash hands thoroughly after handling. When using do not eat, drink or smoke.
Wash clothing before re-using.
- Personal protection**
- **Respiratory protection** : Respiratory protection is not required if good ventilation is maintained
 - **Skin protection** : Wear suitable protective clothing Wear safety boots.
 - **Hand protection** : Wear suitable gloves.
 - **Eye protection** : Chemical goggles or safety glasses.
- Occupational Exposure Limits**
- TLV** : Xylene: 100 ppm
- TLV [mg/m³]** : Alachlor: 5
Prometryn: 5
- OEL (UK)-STEL [ppm]** : Xylene: 100
- MAK - Germany [ppm]** : Xylene: 100

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state** : Liquid
- Colour** : Tan
- Odour** : Aromatic
- pH value** : 5.5-7
- Boiling point [°C]** : 137-143 (Xylene)
- Density [g/ml]** : 0.995± 0.02 @ 20°C
- Vapour pressure [mPa]** : 2.9 @ 25 °C (Alachlor (ISO))
0.114@ 25°C (Prometryn)
- Solubility in water** : Miscible
- Flash point [°C]** : 36.5
- Auto-ignition temperature [°C]** : 450 (Xylene)
- Log P octanol / water** : 2.9 (Alachlor (ISO))
3.56 @ 25°C (Prometryn).
- Flammability** : Flammable
- Explosion properties** : Xylene: May form explosive mixtures with air.

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9. PHYSICAL AND CHEMICAL PROPERTIES (continued)

Explosion limits - lower [%] : 1
Explosion limits - upper [%] : 7
Oxidation properties : Not oxidizing

10. STABILITY AND REACTIVITY

Stability : Stable under normal conditions.
Hazardous decomposition products : Chloride compounds , sulfur oxides , nitrogen oxides (NO, NO₂...) , carbon oxides (CO, CO₂) .
Materials to avoid : oxidizing agents , acids , alkali .

11. TOXICOLOGICAL INFORMATION

On product : **Based on data of a.i**
Rat oral LD50 [mg/kg] : >2,000
Rat dermal LD50 [mg/kg] : > 2,000
Carcinogenicity : (Prometryn): EPA: Group E
EU : Not classified
(Alachlor): EPA Group L1: Likely to be a human carcinogen at high doses but not likely at low doses.
EU: Carc.Cat. 3
Mutagenicity : Not mutagenic
Reproductive toxicity : (Prometryn): Not considered to be toxic for the reproductive system.
Teratogenicity : (Prometryn): Not teratogenic in animal experiments

12. ECOLOGICAL INFORMATION

Common name : **Alachlor/Prometryn**
96 H-LC50 - Rainbow trout [mg/l] : (Prometryn)=2.5
(Alachlor (ISO))=2.8
48 H-EC50 - Daphnia magna [mg/l] : (Prometryn)=12.66
(Alachlor (ISO))=26
LD50 Birds [mg/kg] : (Prometryn): Bobwhite quail >2,150
(Alachlor (ISO)): Bobwhite quail =1,536
Bees LD50 [µg/Bee] : (Prometryn): Not toxic to bees
Persistence and degradability : **(Prometryn): Soil :**
: Moderately persistent in soil
Adsorbed on organic matter and clay.
Half-life time (t_{1/2}) 40-70 days
: **Water :**
: The product is persistent
: **(Alachlor (ISO)): Soil :**
: Half-life time (t_{1/2}) : ~21 days
: **Water :**
: The product is persistent
Mobility : **(Alachlor (ISO)): Soil :**
: Adsorbed on soils with high organic content.



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13. DISPOSAL CONSIDERATIONS

Disposal : Dispose of in a pesticide approved landfill, or in a chemical incinerator equipped with scrubbers. Dispose in a safe manner in accordance with local/national regulations.

14. TRANSPORT INFORMATION

- **UN No.** : 1993
- **Proper shipping name** : UN1993 FLAMMABLE LIQUID, N.O.S.(Xylene), 3, III
- **Packing group** : III
- **Class** : 3
- **H.I. nr** : 30
- **IMDG-Marine pollution** : YES

15. REGULATORY INFORMATION

EU Classification : According to Commission Directive 67/548/EEC and its amendments
Symbol(s)



R Phrase(s) : Xn: Harmful.
N: Dangerous for the environment.
R10 - Flammable.
R20/22- Harmful by inhalation and if swallowed.
R38 - Irritating to skin.
R40 - Limited evidence of a carcinogenic effect.
R43 - May cause sensitization by skin contact.
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.
S13- Keep away from food, drink and animal feedingstuffs.
S20- When using do not eat or drink.
S29/35- Do not empty into drains; dispose of this material and its container in a safe way.
S36/37- Wear suitable protective clothing and gloves.
S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S57- Use appropriate containment to avoid environmental contamination.
S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.

16. OTHER INFORMATION

Text of R-phrases in heading 3 : : R10 - Flammable.
R20/21 - Harmful by inhalation and in contact with skin.
R22 - Harmful if swallowed.
R38 - Irritating to skin.
R40 - Limited evidence of a carcinogenic effect.
R43 - May cause sensitization by skin contact.
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However,

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16. OTHER INFORMATION (continued)

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