

	MATERIAL SAFETY DATA SHEET	Page : 1
		Revised edition no : 2
		Date : 9 / 7 / 2009
		Supersedes : 4 / 3 / 2008
PROMANEX 360 EC		H-0078

SECTION 1. Identification of the substance/mixture and of the company/undertaking

Trade name : PROMANEX 360 EC
Substance name : Alachlor(ISO): 2-Chloro-2',6'-diethyl-N-(methoxymethyl)acetanilide
Prometryn: N2,N4-di-isopropyl-6-methylthio-1,3,5-triazine-2,4-diamine
Relevant identified uses : Herbicide
Company identification : ADAMA SOUTH AFRICA (PTY) LTD
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SECTION 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.

SECTION 3. Composition/information on ingredients

Substance name	Concentration % w/w	CAS No	EC No	Index No	REACH Reg.	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 (M fact. = 100)
Prometryn	11 - 13 %	7287-19-6	230-711-3	-----	----	N; R50-53
Xylene	41 - 45 %	1330-20-7	215-535-7	601-022-00-9	----	R10 Xn: R20/21 Xi; R38

SECTION 4. First aid measures

First aid measures
Inhalation : Remove victim to fresh air. If breathing is difficult: artificial respiration . 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.
Ingestion : Wash out mouth with plenty of water. Never give anything by mouth to an unconscious person. 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).

SECTION 5. Fire-fighting measures

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

MATERIAL SAFETY DATA SHEET

Page : 2

Revised edition no : 2

Date : 9 / 7 / 2009

Supersedes : 4 / 3 / 2008

PROMANEX 360 EC

H-0078

SECTION 6. Accidental release measures

- For emergency responders** : Wear suitable protective clothing, gloves and eye/face protection.
- Environmental precautions** : Do not empty into drains Do not discharge into the environment.
- Clean up methods** : 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.

SECTION 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 .

SECTION 8. Exposure controls/personal protection

- TLV©** : Xylene: 100 ppm
: Ventilation required.
- OEL (UK)-STEL [ppm]** : Xylene: 100
- TRGS 900 - Germany [ppm]** : Xylene: 100
- TLV - ACGIH [mg/m³]** : Alachlor: 5
Prometryn: 5
- : 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
 - **Hand protection** : Wear suitable gloves.
 - **Skin protection** : Wear suitable protective clothing Wear safety boots.
 - **Eye protection** : Chemical goggles or safety glasses.

SECTION 9. Physical and chemical properties

- Physical state at 20 °C** : Liquid
- Colour** : Tan
- Odour** : Aromatic
- pH value** : 5.5-7
- Boiling point [°C]** : 137-143 (Xylene)
- Flash point [°C]** : 36.5
- Flammability** : Flammable
- Vapour pressure [mPa]** : 2.9 @ 25 °C (Alachlor (ISO))
0.114 @ 25°C (Prometryn)
- Density [g/ml]** : 0.995± 0.02 @ 20°C
- Solubility in water** : Miscible
- Log P octanol / water at 20°C** : 2.9 (Alachlor (ISO))
3.56 @ 25°C (Prometryn).
- Auto-ignition temperature [°C]** : 450 (Xylene)
- Explosive Properties** : Xylene: May form explosive mixtures with air.
- Explosion limits - lower [%]** : 1
- Explosion limits - upper [%]** : 7

MATERIAL SAFETY DATA SHEET

Page : 3

Revised edition no : 2

Date : 9 / 7 / 2009

Supersedes : 4 / 3 / 2008

PROMANEX 360 EC**H-0078**

SECTION 9. Physical and chemical properties (continued)

Oxidising properties : Not oxidizing

SECTION 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 .

SECTION 11. Toxicological information

On product : **Based on data of a.i**
- Rat oral LD50 [mg/kg] : >2,000
- Dermal, Rat LD50 [mg/kg] : > 2,000
Mutagenicity : Not mutagenic
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
Toxic for reproduction : Fertility : (Prometryn): Not considered to be toxic for the reproductive system.
Toxic for reproduction : (Prometryn): Not teratogenic in animal experiments

SECTION 12. Ecological information

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] : (Prometryn): Not toxic to bees
Persistence - degradability : **(Prometryn): Soil :**
: Moderately persistent in soil
: Adsorbed on organic matter and clay.
: Half-life time (t1/2) 40-70 days
: **Water :**
: The product is persistent
: **(Alachlor (ISO)): Soil :**
: Half-life time (t1/2) : ~21 days
: **Water :**
: The product is persistent
Mobility : **(Alachlor (ISO)): Soil :**
: Adsorbed on soils with high organic content.

MATERIAL SAFETY DATA SHEET

Page : 4

Revised edition no : 2

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PROMANEX 360 EC**H-0078**

SECTION 13. Disposal considerations

General : 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.

SECTION 14. Transport information

UN N° : 1993
Proper shipping name : UN1993 FLAMMABLE LIQUID, N.O.S.(Xylene), 3, III
- H.I. no : 30
- **IMO-IMDG - class or division** : 3
- **Packing group** : III
- **IMDG-Marine pollution** : Marine pollutant - Polluant marin

SECTION 15. Regulatory information

EU Classification : According to Commission Directive 67/548/EEC, 1999/45/EC and its amendments

Symbol(s)



: Xn: Xn : Harmful.
N: N : Dangerous for the environment.

R Phrase(s)

: 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.

SECTION 16. Other information

List of relevant R phrases (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.

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