

SAFETY DATA SHEET

ALANEX 384 EC

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

Product name : ALANEX 384 EC
Chemical name of active ingredient(s) : 2-Chloro-2',6'-diethyl-N-(methoxymethyl)acetanilide
Manufacturer : Agan Chemical Manufacturers Ltd.
 Northern Industrial Zone,
 P.O.Box 262, Ashdod, Israel.
Emergency telephone number : +972-8-8515211

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation : Preparation

Information on hazardous ingredients *

Common name	CAS No.	%	EC Number	Symbol	R-Phrases
Alachlor (ISO)	15972-60-8	38 - 42	240-110-8	Xn, N	R22-40-43-50/53
Xylene	1330-20-7	50 - 55	215-535-7	Xn	R10-20/21-38

* *Occupational Exposure Limit(s), if available, are listed in section 8*

3. HAZARDS IDENTIFICATION

Most important hazards : Flammable. Irritating to eyes and skin. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST-AID MEASURES

Effects and symptoms

Inhalation : Vapours - headache, dizziness and nausea.
Ingestion : nausea, headache, cramps, vomiting.
Skin contact : Irritating to skin. May cause sensitization by skin contact.
Eye contact : Irritating to eyes.

First-aid measures

Inhalation : Remove victim from area of exposure. Wash off remaining material with plenty of water.
 : Remove victim to fresh air. If breathing is difficult: artificial respiration. Get medical attention.
Ingestion : Wash out mouth with plenty of water. Get medical attention. Never give anything by mouth to an unconscious person.
Skin contact : Remove contaminated clothing. Wash away remainder with water and soap.
Eye contact : Wash out with plenty of water with the eyelid held wide open for at least 15 minutes. Get medical attention.

Notes to a physician : There is no specific antidote. Treat symptomatically and give supportive therapy.

Protection of first-aiders : Use appropriate protection (see section 8).

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5. FIRE-FIGHTING MEASURES

Extinguishing media

- Suitable** : Dry chemical, water spray, foam, carbon dioxide.
- Unusual fire/explosion hazards** : Flashback may occur along vapour trail.
- Hazardous thermal (de)composition products** : Chloride compounds and nitrogen oxides.
- Protection of fire-fighters** : Self-contained breathing apparatus and total protection required in enclosed areas.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Wear suitable protective clothing.
- Environmental precautions** : Do not discharge into drains or the environment.
- Methods for cleaning up** : Keep away from: open flame, sparks and heat. Absorb remainder in sand or other inert material. Dispose of in an authorized waste collecting point.

7. HANDLING AND STORAGE

- Handling** : Avoid contact with skin and eyes. Ventilation required. Keep away from: sparks, open flame and direct sunlight.
- Storage** : Keep only in the original container. Keep in a cool, dry, well ventilated place away from direct sunlight.
- Packaging materials**
- Suitable** : Multi-layer high density polyethylene extrusion blow containers. Resin-lined metal drums.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering measures** : Ventilation required.
- Hygiene measures** : When handling do not eat, drink or smoke. Wash hands thoroughly after handling. Wash clothing separately before re-use.
- Occupational Exposure Limits**
- Common name** : **Alachlor (ISO)**
- TLV (USA)** : 5 mg/m³
- Common name** : **Xylene**
- TLV (USA)** : 100 ppm
- "MAK" (Germany)** : 100 ppm
- OEL (United Kingdom)** : 100 ppm
- Personal protective equipment**
- Respiratory system** : Respiratory protection is not required if good ventilation is maintained.
- Skin and body** : Wear suitable protective clothing. Chemical resistant boots.
- Hands** : Chemical resistant gloves.
- Eyes** : Safety goggles or face shield.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Liquid
Colour	: Violet (clear)
Odour	: Aromatic (solvent)
Boiling point	: 137 - 143°C (Xylene)
Density	: 097 @ g/mL @ 20°C
Vapour pressure	: 2.9 mPa @ 25°C (Alachlor (ISO))
Solubility in water	: 242 ppm @ 25°C (Alachlor (ISO))
Octanol/water partition coefficient	: log = 2.9 (Alachlor (ISO))
pH	: 5.5-7.0 (CIPAC, MT 75)
Flash point	: 30°C (closed cup)
Flammability	: Flammable
Autoignition temperature	: 450°C (Xylene)
Explosion properties	: Xylene (vapours) - May form explosive mixture with air.
Lower explosion limit	: 1 volume %
Upper explosion limit	: 7 volume %
Oxidation properties	: Not oxidizing.

10. STABILITY AND REACTIVITY

Stability	: Not subject to polymerization.
Materials to avoid	: Oxidizing agents, acids and alkali.
Hazardous reactions	: None
Hazardous decomposition products	: Chloride compounds and nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Preparation (Similar formulation)

Acute toxicity - Oral	: LD ₅₀ (rat) = 3,939 mg/kg
Acute toxicity - Dermal	: LD ₅₀ (rabbit) > 2,000 mg/kg
Acute toxicity - Inhalation	: LC ₅₀ (rat) > 5.2 mg/L (4 hours) (maximum attainable concentration)
Skin irritation	: Severely irritating (rabbit).
Eye irritation	: Severely irritating (rabbit).
Sensitization	: Non sensitizer (guinea-pig)

<u>Common name</u>	: Alachlor (ISO)
Chronic toxicity	: NOEL: mice 26 mg/kg/day; rat 0.5 mg/kg/day.
Carcinogenicity	: EPA : Group B2 EU :Carc. Cat. 3 IARC : Not classified
Mutagenicity	: Not mutagenic
Reproduction toxicity	: NOEL: 30 mg/kg/day (3-generation)
Other information	: Teratogenicity - NOEL (Maternal and Fetal): 60 mg/kg/day.

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12. ECOLOGICAL INFORMATION

Common name : **Alachlor (ISO)**

Mobility : **Soil**
Low mobility - Moderately mobile.
Adsorbed on soils with high organic content.
Water
Low risk for underground water contamination.

Persistence/degradability : **Soil**
Half-life time (t_{1/2}): ~ 21 days.
Degradation is primarily via: microorganisms.
Water
55% degraded in 28 days.

Bioaccumulative potential : Low bioaccumulation potential (K_{ow} log P = 3.09)

Ecotoxicity : **Fish**
LC₅₀ (96 hours) rainbow trout (oncorhynchus mykiss) = 2.8 mg/L
bluegill sunfish (Lepomis macrochirus) = 1.8 mg/L
dwarf gowrami = 1.73 mg/L

Daphnia magna
EC₅₀ (48 hours) = 26 mg/L

Algae (selenastrum capricornutum)
EC₅₀ (72 hours) = 0.012 mg/l

Birds
Bobwhite quail (colinus virginianus) LD₅₀ = 1,536 mg/kg
chicken LD₅₀ = 916 mg/kg
Mallard duck (anas platyrhynchos) and Bobwhite quail (colinus virginianus):
LC₅₀ > 5,620 mg/kg (5 feeding days)

Bees
LD₅₀ = 32 mg/bee

Toxic to aquatic organisms. Low toxicity: birds. Not toxic: bees.

13. DISPOSAL CONSIDERATIONS

Methods of disposal : Dispose of in a pesticide approved landfill, or in a chemical incinerator equipped with scrubbers, In accordance with national and regional regulations.

14. TRANSPORT INFORMATION

International transport regulations

UN number : 1993

Land - Road/Railway

Proper shipping name : Flammable liquid, N.O.S. (Xylene)
ADR/RID Class : 3, F1, PG III
Hazard Identification Number : 30

Inland waterways

Proper shipping name : Flammable liquid, N.O.S. (Xylene)

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ADNR Class : 3, F1, PG III

Sea

Proper shipping name : Flammable liquid, N.O.S. (Xylene)

IMDG Class : 3, Label 3

Packing group : III

Emergency Schedules (EmS) : F-E, S-E

Air

Proper shipping name : Flammable liquid, N.O.S. (Xylene)

UN/ID Number : 1993

IATA-DGR Class : 3, PGIII

National transport regulations

No additional national transport regulations are known to the supplier

15. REGULATORY INFORMATION

Classification : This product is provisionally labelled by the supplier in accordance with the suppliers understanding of the EU regulations (Directives 67/548/EEC, 1999/45/EC).

Hazard symbol(s) : Xn, N



HARMFUL



DANGEROUS FOR THE ENVIRONMENT

Risk phrases : R10: Flammable.
 R36/38: Irritating to eyes and skin.
 R40: Limited evidence of a carcinogenic effect.
 R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases : S02: Keep out of the reach of children.
 S13: Keep away from food, drink and animal feedingstuffs.
 S20/21: When using do not eat, drink or smoke.
 S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S28: After contact with skin, wash immediately with plenty of water.
 S35: This material and its container must be disposed of in a safe way.
 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 where possible).
 S57: Use appropriate containment to avoid environmental contamination.
 S61: Avoid release to the environment. Refer to special instructions/Safety data sheets.

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16. OTHER INFORMATION

The information contained in the Safety Data sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be suitable for combinations with other materials or in processes other than those specifically described herein.

HISTORY

Date of printing : 02/10/2005
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