

# MATERIAL SAFETY DATA SHEET

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Revised edition no : 2

Date : 8 / 7 / 2009

Supersedes : 18 / 3 / 2008

**ACETOGAN****H-0092(00194)**

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

**Trade name** : ACETOGAN  
**Chemical description** : Acetochlor: 2-chloro-N-ethoxymethyl-6'-ethylaceto-o-toluidide  
**Use** : Herbicide.  
**Company identification** : Makhteshim Agan SA (Pty) Ltd PO Box 498 Brackenfell 7561  
**Emergency phone nr** : +27-21-9821460  
**Email** : info@makhro.com

## 2. HAZARDS IDENTIFICATION

**Human health hazards** : Irritating to respiratory system. 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
Acetochlor	: 80 - 85 %	34256-82-1	251-899-3	616-037-00-6	Xn; R20 Xi; R37/38 R43 N; R50-53
Solvent naphta light aromatic (low boiling point)	: 2 - 3 %	64742-95-6	265-199-0	649-356-00-4	R10 Carc. Cat. 3; R40 Xn; R65 R66 R67 Xi; R36/37/38 N; R51-53

## 4. FIRST AID MEASURES

**First aid**  
**Inhalation** : Remove victim to fresh air. Keep person warm and at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.  
**Ingestion** : Wash out mouth with water if person is conscious. Never give anything by mouth to an unconscious person. Get medical attention.  
**Skin contact** : Take off immediately all contaminated clothing. Wash contaminated skin with soap and water. Get medical attention if symptoms occur.  
**Eye contact** : Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. If irritation persists, get medical attention.  
**Note to physician** : No specific antidote. Treat symptomatically and supportively.

## 5. FIRE-FIGHTING MEASURES

**Extinguishing media** : Use DRY chemicals, CO2, water spray or foam.  
**Special procedures** : Exercise caution when fighting any chemical fire. In case of insufficient ventilation, wear suitable respiratory equipment.  
**Hazardous decomposition products** : Chloride compounds , carbon dioxide and nitrogen oxides.  
**Protection of fire-fighters** : Wear suitable protective clothing, gloves and eye/face protection. Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

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### 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Wear protective clothing.
- Environmental precautions** : Do not discharge into the environment.
- After spillage and/or leakage** : Collect spilled material. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

### 7. HANDLING AND STORAGE

- Handling** : Avoid contact with eyes, skin and clothing. Avoid breathing vapors or dusts. Ventilation required.
- Storage** : Keep only in the original container. Keep in a cool, well-ventilated place. Store away from direct sunlight.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Industrial hygiene** : Ventilation required.  
When using do not eat, drink or smoke. Wash hands thoroughly after handling.  
Wash clothing before re-using.
- Personal protection**
- **Respiratory protection** : Self-contained breathing apparatus and total protection required in enclosed areas.
  - **Skin protection** : Wear suitable protective clothing . Chemical resistant boots.
  - **Hand protection** : Chemical resistant gloves.
  - **Eye protection** : Safety goggles or face shield
- Occupational Exposure Limits** : Acetochlor : Not established

### 9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state** : Clear liquid
- Colour** : Violet.
- Odour** : Aromatic
- pH value** : 5-7
- Density [g/ml]** : 1.093 ± 0.015 ( 20°C)
- Vapour pressure [mPa]** : 6 ( 25°C) (Acetochlor)
- Solubility in water** : Miscible
- Flash point [°C]** : > 62
- Log P octanol / water** : 4.14 (Acetochlor)
- Flammability** : Combustible
- Explosion properties** : Not explosive
- Oxidation properties** : Not oxidizing

### 10. STABILITY AND REACTIVITY

- Stability** : Stable
- Hazardous decomposition products** : Chloride compounds, carbon dioxide and nitrogen oxides.
- Hazardous reactions** : No polymerization.
- Materials to avoid** : Oxidizing agents, acids, and alkali.

### 11. TOXICOLOGICAL INFORMATION

- On product**
- Rat oral LD50 [mg/kg]** : < 2,000

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### 11. TOXICOLOGICAL INFORMATION (continued)

Rabbit dermal LD50 [mg/kg]	: > 4,000
Rat inhalation LC50 [mg/l/4h]	: > 2.7 Maximum concentration attainable.
Dermal irritation (rabbit)	: Slight irritant
Eyes irritation (rabbit)	: Mildly irritating
Sensitization	: Sensitizer
Carcinogenicity	: EPA : Group B2 EU Classification : Not classified
Mutagenicity	: Not mutagenetic.
Reproductive toxicity	: Not considered to be toxic for the reproductive system.
Teratogenicity	: Not teratogenic in animal experiments

### 12. ECOLOGICAL INFORMATION

Ecological effects information	: <b>Acetochlor</b>
96 H-LC50 - Rainbow trout [mg/l]	: 0.983
48 Hour-EC50 - Daphnia magna [mg/l]	: 12.5
72H- EC50 - Algae [mg/l]	: 0.00261
LD50 Birds [mg/kg]	: 646 Bobwhite quail
Birds LC50 [ppm]	: > 2000 Mallard duck
Bees LC50 [µg/Bee]	: Not toxic to bees
Persistence and degradability	: <b>Soil</b> : Moderately persistent in soil Half-life time (t1/2) : 8-18 days Readily absorbed on soil. <b>Water</b> : Half-life time (t1/2) : 20 day(s) ( 20°C)
Mobility	: <b>Soil</b> : Moderately mobile
Bioaccumulative potential	: Bioconcentration factor (BCF) : 100-3000

### 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.
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### 14. TRANSPORT INFORMATION

- UN No.	: 3082
- Proper shipping name	: UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.( Acetochlor), 9, III
- Packing group	: III
- Class	: 9
- H.I. nr :	: 90
- IMDG-Marine pollution	: YES

### 15. REGULATORY INFORMATION

EU Classification	: Classification and labeling have been performed according to EU directives 67/548/EEC, 88/379/EEC including amendments and the intended use.
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### 15. REGULATORY INFORMATION (continued)

Symbol(s)



R Phrase(s)

: Xi: Irritant  
 N: Dangerous for the environment.  
 : R37 - Irritating to respiratory system.  
 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.  
 S23D - Do not breathe spray.  
 S29/35 - Do not empty into drains ; dispose of this material and its container in a safe way.  
 S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.  
 S57 - Use appropriate container 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 - Harmful by inhalation.  
 R36/37/38 - Irritating to eyes, respiratory system and skin.  
 R37/38 - Irritating to respiratory system and skin.  
 R43 - May cause sensitization by skin contact.  
 R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
 R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
 R65 - Harmful : may cause lung damage if swallowed.  
 R66 - Repeated exposure may cause skin dryness or cracking.  
 R67 - Vapours may cause drowsiness and dizziness.

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