



# MATERIAL SAFETY DATA SHEET

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Revised edition no : 1

Date : 13 / 5 / 2008

Supersedes : 0 / 0 / 0

## DIUREX 80 SC

**H-0158(13805)**

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

**Trade name** : DIUREX 80 SC  
**Chemical description** : Diuron: 3-(3,4-Dichlorophenyl)-1,1-dimethylurea  
**Use** : Herbicide.  
**Company identification** : Agan Chemical Manufacturers Ltd.  
P.O.B. 262  
ASHDOD Israel  
**Emergency phone nr** : +972-8-8515211  
**Email** : MSDS@ma-industries.com

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Substance name	Value(s)	CAS No	EC No	Index No	Classification
Diuron (ISO)	: 61 - 65 %	330-54-1	206-354-4	006-015-00-9	Carc. Cat. 3; R40 Xn; R22-48/22 N; R50-53
Ethanediol	: 6 - 7 %	107-21-1	203-473-3	603-027-00-1	Xn; R22

### 3. HAZARDS IDENTIFICATION

**Human health hazards** : Limited evidence of a carcinogenic effect. Harmful : danger of serious damage to health by prolonged exposure if swallowed.  
**Environmental hazard** : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. .

### 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 , nitrogen oxides (NO, NO2...) , carbon oxides (CO, CO2) .  
**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, gloves and eye/face protection.  
**Environmental precautions** : Do not empty into drains. Do not discharge into the environment.  
**After spillage and/or leakage** : Absorb in sand or other inert material. 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.



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### 7. HANDLING AND STORAGE

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

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Engineering measures</b>	: Ventilation required.
<b>Industrial hygiene</b>	: Wash hands thoroughly after handling. When using do not eat, drink or smoke. Wash clothing before re-using.
<b>Personal protection</b>	
- Respiratory protection	: No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. .
- Skin protection	: Wear suitable protective clothing Wear safety boots.
- Hand protection	: Wear suitable gloves.
- Eye protection	: Chemical goggles or safety glasses.
<b>Occupational Exposure Limits</b>	
TLV	: Diuron: 10 mg/m <sup>3</sup>

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	: Liquid
<b>Colour</b>	: White
<b>Odour</b>	: Faint odour
<b>pH value</b>	: 6-8
<b>Boiling point [°C]</b>	: 100 (water)
<b>Density [g/ml]</b>	: 1.275± 0.02 @ 20°C
<b>Vapour pressure [mPa]</b>	: 0.01 @ 25°C (Diuron)
<b>Solubility in water</b>	: Miscible
<b>Log P octanol / water</b>	: 2.8 (Diuron)
<b>Flammability</b>	: Not flammable
<b>Explosion properties</b>	: Not explosive
<b>Oxidation properties</b>	: Not oxidizing

### 10. STABILITY AND REACTIVITY

<b>Stability</b>	: Stable under normal conditions.
<b>Hazardous decomposition products</b>	: Chloride compounds , nitrogen oxides (NO, NO <sub>2</sub> ...) , carbon oxides (CO, CO <sub>2</sub> ) .
<b>Materials to avoid</b>	: oxidizing agents , acids , alkali .

### 11. TOXICOLOGICAL INFORMATION

<b>On product</b>	
<b>Rat oral LD50 [mg/kg]</b>	: >2,000
<b>Rat dermal LD50 [mg/kg]</b>	: > 2,000
<b>Rat inhalation LC50 [mg/l/4h]</b>	: >20
<b>Dermal irritation (rabbit)</b>	: Not irritant .
<b>Eyes irritation (rabbit)</b>	: Not irritant .
<b>Sensitization</b>	: Non sensitizer



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### 11. TOXICOLOGICAL INFORMATION (continued)

<b>Chronic toxicity</b>	: <b>Diuron:</b> : NOEL (rat)=250 mg/kg/day (2 years). : NOEL (dog)=125 mg/kg/day (2 years).
<b>Carcinogenicity</b>	: <b>Diuron:</b> : EPA Group C: Possible human carcinogen. : EU: Carc.Cat. 3 : IARC : Not classified .
<b>Mutagenicity</b>	: (Diuron): Not mutagenic.
<b>Reproductive toxicity</b>	: (Diuron): NOEL (rat)>250 ppm (2 generations).
<b>Teratogenicity</b>	: (Diuron): NOEL (rat)=80 mg/kg/day (maternal), 16 mg/kg/day (fetal).

### 12. ECOLOGICAL INFORMATION

<b>On product</b>	
<b>96 Hour-LC50-Bluegill sunfish [mg/l]</b>	: 5.9 (Diuron)
<b>96 Hour - LC50- fish [mg/l]</b>	: Zebra fish =122.64
<b>48 H-EC50 - Daphnia magna [mg/l]</b>	: 4.8 (Diuron)
<b>72 H-EC50 Algae [mg/l]</b>	: 0.025 (Diuron)
<b>LD50 Birds [mg/kg]</b>	: Japanese quail =950
<b>Bees LD50 [µg/Bee]</b>	: Oral >100 : Contact >100
<b>Persistence and degradability</b>	: <b>Diuron: Soil :</b> : The product is persistent : Half-life time (t1/2) : 90-180 days. : Degradation is primarily via: : microorganisms
<b>Mobility</b>	: <b>Diuron: Soil :</b> : Low mobility . : Adsorbed on organic matter and clay. : Low risk of underground water contamination.
<b>Bioaccumulative potential</b>	: Low bioaccumulation potential (Log Pow=2.8).

### 13. DISPOSAL CONSIDERATIONS

<b>Disposal</b>	: 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

<b>International transport regulations</b>	
- UN No.	: 3082
- Proper shipping name	: Environmentally hazardous substance, liquid, N.O.S. (Diuron).
<b>Land transport</b>	
- H.I. nr :	: 90
- ADR/RID	: Class 9, M6, PG III
<b>Sea transport</b>	
- IMO-IMDG code	: Class 9, PG III
- EMS-Nr	: F-A, S-F
<b>Air transport</b>	
- IATA - Class or division	: 9, PG III

**Agan Chemical Manufacturers Ltd.**

P.O.B. 262 ASHDOD Israel



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## 14. TRANSPORT INFORMATION (continued)

**National transport regulations** : No additional national regulations are available/required

## 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.  
: R40 - Limited evidence of a carcinogenic effect.  
R48/22 - Harmful : danger of serious damage to health by prolonged exposure if swallowed.  
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.  
S46 - If swallowed seek medical advice immediately and show this container or label.  
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 2** : R22 - Harmful if swallowed.  
R40 - Limited evidence of a carcinogenic effect.  
R48/22 - Harmful : danger of serious damage to health by prolonged exposure if swallowed.  
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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