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Date: 6 / 6 / 2010

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# **LINUREX 50 SC**

H-0035 (20195)

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

Trade name : LINUREX 50 SC

Chemical description : Linuron (ISO): 3-(3,4-Dichlorophenyl)-1-methoxy-1-methylurea.

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

**Human health hazards** : Limited evidence of a carcinogenic effect. Harmful : danger of serious damage to

health by prolonged exposure if swallowed. May cause harm to the unborn child

Possible risk of impaired fertility.

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	REACH Reg.	Classification
Linuron (ISO)	:	40 - 45 %	330-55-2	206-356-5	006-021-00-1		Carc. Cat. 3; R40 Repr. Cat. 2; R61 Repr. Cat. 3; R62 Xr; R22-48//22 N; R50-53
Ethylene Glycol	:	4 - 6 %	107-21-1	203-473-3	603-027-00-1		Xn; R22

#### 4. First aid measures

First aid

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.

Inhalation : Remove victim to fresh air. If breathing is difficult: artificial respiration . 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.

**Protection of fire-fighters** : Self-contained breathing apparatus and total protection required in enclosed areas.



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## 5. Fire-fighting measures (continued)

Hazardous decomposition products : Chloride compounds , nitrogen oxides (NO, NO2...) , carbon oxides (CO, CO2) .

#### 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.

#### 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 : 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.

**Occupational Exposure Limits** 

TLV Linuron (ISO): No data available.

#### 9. Physical and chemical properties

Physical state : Liquid
Colour : Beige
Odour : Faint odour
pH value : 7-8.5

**Density [g/ml]** : 1.16 - 1.2 @ 20°C

Vapour pressure [mPa] : 0.05@ 20°C (Linuron (ISO)).

Solubility in water : Miscible

Boiling point [°C] : 100 (water).



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## 9. Physical and chemical properties (continued)

Log P octanol / water: 3.07 (Linuron (ISO)).Flammability: Not flammableExplosion properties: Not explosiveOxidizing properties: Not oxidizing

#### 10. Stability and reactivity

**Stability** : Stable under normal conditions.

Hazardous decomposition products : Chloride compounds, nitrogen oxides (NO, NO2...), carbon oxides (CO, CO2).

Materials to avoid : oxidizing agents, acids, alkali.

#### 11. Toxicological information

On product

 Oral, Rat LD50 [mg/kg]
 : ~5,000

 Dermal, Rat LD50 [mg/kg]
 : >2,000

 Inhalation, Rat LC50 [mg/l/4h]
 : >4.66

Skin corrosion/ irritation : Mildly irritating
Serious eye damage/ irritation : Minimal irritant
Respiratory or skin sensitization : Mild sensitizer
Carcinogenicity : Linuron (ISO)):

: EPA Group C: Possible human carcinogen

EU: Carc.Cat. 3

**Germ cell mutagenicity** : (Linuron): Not mutagenic **Reproductive toxicity** : Repr.Cat. 2 + Repr.Cat. 3 .

**Teratogenicity** : (Linuron): Not teratogenic in animal experiments

## 12. Ecological information

On product

96 H-LC50 - Rainbow trout [mg/l] : 15.4 48 H-EC50 - Daphnia magna [mg/l] : 4.1 72H- EC50 - Algae [mg/l] : 0.1

LD50 Birds [mg/kg] : (Linuron (ISO)): Bobwhite quail =314

Bees LD50 [μg/Bee] : Not toxic to bees
Persistence and degradability (Linuron (ISO)): Soil :

: Half-life time (t1/2) Field:13-82 days.

Water :

: Half-life time (t1/2) : 48 days.

Mobility (Linuron (ISO)): Soil :

: Not mobile .

Adsorbed on organic matter and clay.



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### 12. Ecological information (continued)

Water:

: Low risk of underground water contamination.

Bioaccumulative potential : (Linuron (ISO)): BCF: 38-49

# 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. : 3082

- Proper shipping name : UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(

LINURON(ISO)), 9, III

- Packing group : III - Class : 9 - H.I. nr : : : 90 - IMDG-Marine pollution : YES

## 15. Regulatory information

**EU Classification** 

Symbol(s)

: According to Commision Directive 67/548/EEC, 1999/45/EC and its amendments





: T: Toxic

N: Dangerous for the environment.

R Phrase(s) : 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.

R61- May cause harm to the unborn child. R62- Possible risk of impaired fertility.

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.



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### 15. Regulatory information (continued)

#### 16. Other information

List of full text of R-phrases in

section 3.

: 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.

R61 - May cause harm to the unborn child. R62 - Possible risk of impaired fertility.

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