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<b>SIMANEX 50 SC</b>		<b>H-0306 (32002)</b>

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

**Trade name** : SIMANEX 50 SC  
**Substance name** : Simazine: 6-Chloro-N2,N4-diethyl-1,3,5-triazine-2,4-diamine  
**Relevant identified uses** : Herbicide  
**Company identification** : ADAMA SOUTH AFRICA (PTY) LTD  
21 Viben Street  
Brackenfell 7560  
**Email** : msds@mcw.co.il  
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+27 21 982 1460

### SECTION 2. Hazards identification

**Human health hazards** : Limited evidence of a carcinogenic effect.  
**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
Simazine	41 - 46 %	122-34-9	204-535-2	612-088-00-3	----	Carc. Cat. 3; R40 N; R50-53

### 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 , nitrogen oxides (NO, NO2) , carbon oxides (CO, CO2) .

### 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.

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### 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.

### SECTION 8. Exposure controls/personal protection

: Ventilation required.

**Simazine: Data not available.**

: 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** : White
- Odour** : Faint odour
- pH value** : 6-8
- Flammability** : Not flammable
- Vapour pressure [mPa]** : 0.003@ 25°C (Simazine)
- Density [g/ml]** : 1.15 ± 0.02 @ 20°C
- Solubility in water** : Miscible
- Log P octanol / water at 20°C** : 2.19 (Simazine)
- Explosive Properties** : Not explosive
- Oxidising properties** : Not oxidizing

### SECTION 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 .

### SECTION 11. Toxicological information

**On product**

- Rat oral LD50 [mg/kg] : >5,000
  - Dermal, Rat LD50 [mg/kg] : >2,000
  - Rat inhalation LC50 [mg/l/4h] : >1.5 Maximum concentration attainable
- Dermal irritation (rabbit)** : Mildly irritating
- Eyes irritation (rabbit)** : Mildly irritating
- Sensitization** : Sensitizer
- Mutagenicity** : Simazine: Not mutagenic
- Carcinogenicity** : **Simazine:**  
: EPA Group C: Possible human carcinogen.  
EU: Carc.Cat. 3  
IARC classification: group 3

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### SECTION 11. Toxicological information (continued)

**Toxic for reproduction : Fertility** : Simazine: Not considered to be toxic for the reproductive system.  
**Toxic for reproduction** : Simazine: Not teratogenic in animal experiments

### SECTION 12. Ecological information

**96 H-LC50 - Rainbow trout [mg/l]** : >100  
**48 H-LC50-Daphnia magna [mg/l]** : >100  
**72 H-EC50 - Algae [mg/l]** : 0.6  
**LD50 Birds [mg/kg]** : Bobwhite quail >1,785  
**Bees LD50 [µg]** : Not toxic to bees  
**Persistence - degradability** : **Soil** :  
: Moderately persistent in soil  
Half-life time (t1/2) : 70-110 days.  
**Mobility** : **Soil** :  
: Low mobility .  
Adsorbed on organic matter and clay.

### 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°** : 3082  
**- IMO-IMDG - class or division** : 9  
**- IMDG-Marine pollution** : Marine pollutant - Polluant marin  
**- Proper shipping name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
**- IMO-IMDG - Packing group** : III

### SECTION 15. Regulatory information

**EU Classification** : According to Commission Directive 67/548/EEC, 1999/45/EC and its amendments  
**Symbol(s)** : N: N : Dangerous for the environment.



**R Phrase(s)** : Xn: Xn : Harmful.  
: R40 - Limited evidence of a carcinogenic effect.  
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.  
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.  
S46- If swallowed, seek medical advice immediately and show this container or label.  
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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#### SECTION 16. Other information

**List of relevant R phrases (heading 3)** : R40 - Limited evidence of a carcinogenic effect.  
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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