

# SAFETY DATA SHEET

## SIMANEX 50 SC

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

**Product name** : SIMANEX 50 SC  
**Chemical name of active ingredient(s)** : 6-Chloro-N,N'-diethyl-1,3,5-triazine-2,4-diamine.  
**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
Simazine	122-34-9	41 - 46	204-535-2	Xn,N	R40-50/53

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

### 3. HAZARDS IDENTIFICATION

**Most important hazards** : Limited evidence of a carcinogenic effect. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 4. FIRST-AID MEASURES

**Effects and symptoms**

**First-aid measures** : Remove victim from area of exposure. Wash off remaining material with plenty of water.

**Inhalation** : 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).

### 5. FIRE-FIGHTING MEASURES

**Extinguishing media**

**Suitable** : Dry chemical, water spray, foam, carbon dioxide.

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**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** : Absorb remainder in sand or other inert material. Dispose of in an authorized waste collecting point.

#### 7. HANDLING AND STORAGE

**Handling** : Ventilation required.  
**Storage** : Keep only in the original container. Keep in a cool, dry, well ventilated place away from direct sunlight.  
**Packaging materials**  
**Suitable** : High density polyethylene extrusion blow containers.

#### 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** : **Simazine**  
: Not established  
**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.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state** : Liquid  
**Colour** : White  
**Odour** : Faint odour  
**Boiling point** : 100°C (Water)  
**Density** : 1.15 ± 0.02 g/mL @ 20°C  
**Vapour pressure** : 0.003 mPa @ 25°C (Simazine)  
**Solubility in water** : 6.2 - 7 ppm @ 25°C (Simazine)  
**Octanol/water partition coefficient** : log P = 2.19 (Simazine)  
**pH** : 6 - 8  
: CIPAC, MT 75.  
**Flammability** : Not flammable  
**Explosion properties** : Not explosive

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**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

**Acute toxicity - Oral** : LD<sub>50</sub> (rat) > 5,000 mg/kg  
**Acute toxicity - Dermal** : LD<sub>50</sub> (rat) > 4,000 mg/kg  
**Acute toxicity - Inhalation** : LC<sub>50</sub> (rat) > 1.5 mg/L (4 hours) (maximum attainable concentration)  
**Skin irritation** : Not irritating (rabbit).  
**Eye irritation** : Minimal irritant (rabbit).  
**Sensitization** : Non sensitizer (guinea-pig).

**Common name** : **Simazine**  
**Chronic toxicity** : NOEL : rat 10 ppm ; mouse 40 ppm .  
**Carcinogenicity** : EPA : Group C  
 EU : Carc. Cat. 3  
 IARC : Group 3  
**Mutagenicity** : Not mutagenic.  
**Reproduction toxicity** : NOEL (rat): 10 ppm (Maternal) ; 500 ppm (Fetal).  
**Other information** : Teratogenicity - NOEL (rat): 10 mg/kg/day ; NOEL (rabbit): 5 mg/kg/day.

#### 12. ECOLOGICAL INFORMATION

**Common name** : **Simazine**  
**Mobility** : **Soil**  
 Low mobility.  
 Adsorbed on organic matter and clay.  
 $K_{oc} = 103 - 277 \text{ mL/g}$   
 $K_d = 0.37 - 4.66 \text{ mL/g}$   
**Persistence/degradability** : **Soil**  
 Moderately persistent.  
 Half-life time (t<sub>1/2</sub>): 27-102 days (median 49 days).  
 Degradation is primarily via: microorganisms.  
 The product is not biodegradable.  
**Water**  
 $DT_{50} \text{ (pH 5)} = 96 \text{ days @ } 20^\circ\text{C}$   
 $DT_{50} \text{ (water/sediment)} = 68-166 \text{ days @ } 20^\circ\text{C}$   
**Bioaccumulative potential** : Low bioaccumulation potential.  
 $K_{ow} \log P = 2.19$



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**Hazard symbol(s)** : Xn, N



HARMFUL



DANGEROUS FOR THE ENVIRONMENT

**Risk phrases** : 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.  
S24/25: Avoid contact with skin and eyes.  
S36/37: Wear suitable protective clothing and gloves.  
S60: This material and its container must be disposed of as hazardous waste.  
S61: Avoid release to the environment. Refer to special instructions/Safety data sheets.

### 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

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