

SAFETY DATA SHEET

ALPHA SIMAZINE 50 SC

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

Product name : ALPHA SIMAZINE 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.
Supplier : Makhteshim-Agan (UK) Ltd.
 Unit 16, Thatcham Business Village
 Colthrop Way, Thatcham
 Berkshire RG19 9LW, U.K.
Emergency telephone number : National Chemical Emergency Centre, Tel:01865 407333.

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	R40

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

3. HAZARDS IDENTIFICATION

Most important hazards : May cause sensitization by skin contact. Possible risks of irreversible effects. Toxic to aquatic organisms.

4. FIRST-AID MEASURES

Effects and symptoms

Skin contact : May be irritating to skin. May cause sensitization by skin contact.
Eye contact : May be irritating to eyes.

First-aid measures

Inhalation : 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).

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5. FIRE-FIGHTING MEASURES

Extinguishing media

- Suitable** : Dry chemical, water spray, foam, carbon dioxide.
- 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** : **OEL (United Kingdom)**
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

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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 = 2.19 (Simazine)
pH	: 6 - 8 CIPAC, MT 75.
Flammability	: Not flammable
Explosion properties	: Not explosive
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 ₅₀ (rat) > 75,000 mg/kg
Acute toxicity - Dermal	: LD ₅₀ (rat) > 50,000 mg/kg
Acute toxicity - Inhalation	: LC ₅₀ (rat) > 1.5 mg/L (4 hours) (maximum attainable concentration)
Skin irritation	: Mildly irritating (rabbit).
Eye irritation	: Mildly irritating (rabbit).
Sensitization	: Moderate sensitizer - Strong sensitizer (guinea-pig).

<u>Common name</u>	: Simazine
Chronic toxicity	: NOEL : rat 10 ppm ; mouse 40 ppm .
Carcinogenicity	: EPA : Group C EU : Category 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

<u>Common name</u>	: Simazine
Mobility	: Soil Low mobility. Adsorbed on organic matter and clay.
Persistence/degradability	: Soil Moderately persistent. Half-life time (t _{1/2}): 70-110 days. Degradation is primarily via: microorganisms.

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Bioaccumulative potential : Low bioaccumulation potential.

Ecotoxicity : **Fish**
 LC₅₀ (96 hours) rainbow trout > 100 mg/L
 bluegill sunfish > 90 mg/L

Daphnia magna
 EC₅₀ (48 hours) > 100 mg/L

Algae (scenedesmus subspicatus)
 EC₅₀ (72 hours) = 0.04 mg/L

Birds
 Mallard duck LD₅₀ > 4,640 mg/kg
 LC₅₀ (8 day feeding) > 10,000 ppm
 Bobwhite quail LD₅₀ > 1,785 mg/kg
 LC₅₀ (8 day feeding) > 5,620 ppm

Bees
 Oral LD₅₀ > 99 µg/bee

Very toxic to aquatic organisms. Low toxicity: birds. Not toxic: bees.

13. DISPOSAL CONSIDERATIONS

Methods of disposal : Dispose of in a pesticide approved landfill or in a chemical incinerator equipped with scrubbers, In accordance with national and regional regulations.

14. TRANSPORT INFORMATION

International transport regulations

UN number : 3082

Land - Road/Railway

Proper shipping name : Environmentally hazardous substance, Liquid, N.O.S., Simazine.
ADR/RID Class : 9, Label 9
ADR/RID Item number : 11(c)
Packing group : III
Hazard Identification Number : 90

Inland waterways

Proper shipping name : Environmentally hazardous substance, Liquid, N.O.S., Simazine.
ADNR Class : 9, 11(c), Label 9

Sea : Not classified.

Air : Not classified.

National transport regulations

United Kingdom : No additional national transport regulations are known to the supplier

15. REGULATORY INFORMATION

Classification : United Kingdom - Not classified.

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Safety phrases : S07: Keep container tightly closed.
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.
S49: Keep only in the original container.
S61: Avoid release to the environment. Refer to special instructions/Safety data sheets.

United Kingdom : No additional national regulations are known to the supplier

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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