

MATERIAL SAFETY DATA SHEET

APOLLO

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

Product name : APOLLO
Chemical name of active ingredient(s) : 3,6-bis(o-chlorophenyl)-1,2,4,5-tetrazine.
Code no. : R-10833.DPD
Manufacturer : Makhteshim Chemical Works, Ltd.
P.O.B. 60, Beer Sheva 84100, Israel.
Fax no.: 972-8-6296848-(364)
Emergency telephone number : 972-3-6106666
Subscription no.: 36789 (MAKHTESHIM)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation : Preparation

Information on hazardous ingredients *

Common name	CAS No.	%	EC Number	Symbol	R-Phrases
Clofentezine	74115-24-5	500 g/l	277-728-2	-	-

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

3. HAZARDS IDENTIFICATION

Human health hazards : Not hazardous.
Environmental hazards : Harmful to aquatic organisms

4. FIRST-AID MEASURES

Effects and symptoms : Very slight skin and eye irritation.

First-aid measures

Inhalation : Remove victim to fresh air and keep at rest. If you feel unwell, seek medical advice (show the label where possible).
Ingestion : Wash out mouth with water. Do not induce vomiting. Do not make victim drink. Keep victim at rest. Consult a doctor.
Skin contact : Remove contaminated clothing. Wash off with plenty of water and soap. Consult a doctor if irritation persists.
Eye contact : Wash out with plenty of water for at least 15 minutes. Consult an eye specialist.
Notes to a physician : There is no specific antidote. Treat symptomatically and give supportive therapy.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable : Not combustible.
If involved in fire: : Dry chemical, water spray, foam, carbon dioxide, sand.

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Hazardous thermal (de)composition products : Emits toxic fumes.

Protection of fire-fighters : Wear protective clothing, self-contained breathing apparatus.

Other information : Do not breathe fumes.
Move containers away from fire without risk. Cool exposed containers with water spray. Prevent all discharge into the environment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Avoid contact with spilled liquid. Wear protective clothing. Remove contaminated clothing.

Environmental precautions : Do not allow to enter sewage system.

Methods for cleaning up : Collect and contain as much free liquid as possible / Absorb in sand or other inert material. Disposal according to the local legislation. Wash away remainder with water and soap - Collect and contain as much free liquid as possible for later disposal.

7. HANDLING AND STORAGE

Handling : Do not breathe gas/fumes/vapour/spray. Wash hands after working with the product.

Storage : Store at normal temperatures. Sensitive to frost. Keep away from food, drink and animal feedingstuffs.
Keep container tightly closed and in a well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits : No occupational exposure limits have been established.

Personal protective equipment

Respiratory system : Not applicable.

Skin and body : Wear protective clothing, boots.

Hands : Chemical resistant gloves (PVC or nitrile rubber).

Eyes : Safety goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Liquid.

Colour : Red (magenta).

Odour : Odourless.

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Density	: 1.19 (at a temperature of 20°C).
Vapour density (air=1)	: As for water.
Solubility in water	: Miscible.
Octanol/water partition coefficient	: log Pow = 3.1 (Clotefentzine).
pH	: 6 - 7.5
Flash point	: Not applicable.
Flammability	: Not flammable. Not combustible.
Explosion properties	: Not explosive.

10. STABILITY AND REACTIVITY

Stability	: Stable under normal conditions. Avoid heat.
Hazardous reactions	: None known.
Hazardous decomposition products	: None known under conditions of normal use and storage.

11. TOXICOLOGICAL INFORMATION

Acute toxicity - Oral	: LD ₅₀ > 5000 mg/kg (rat).
Acute toxicity - Dermal	: LD ₅₀ > 4000 mg/kg (rat).
Skin irritation	: Slightly irritant (rabbit).
Eye irritation	: Slightly irritant (rabbit).
Sensitization	: Guinea pig maximization test: Non sensitizer.
Carcinogenicity	: Not carcinogenic
Mutagenicity	: Not mutagenic.
Reproduction toxicity	: Not teratogenic in animal experiments.

12. ECOLOGICAL INFORMATION

The data below are for the active ingredient;

Mobility	: Immobile in soil.
Persistence/degradability	: Soil DT ₅₀ = 30 - 135 days. Water DT ₅₀ = 248 hours (pH 5.0), 34 hours (pH 7.0), 4 hours (pH 9.0).
Bioaccumulative potential	: does not bioaccumulate in fish. BCF = 248
Ecotoxicity	: Birds: LD ₅₀ > 3000 mg/kg (mallard duck). Bees: Low toxicity.

For Apollo/Acaristop 50SC;

Algae EC₅₀ > 100 mg/l (72 hours)
Daphnia LC₅₀ = 200 mg/l (48 hours)
Fish: LC₅₀ = 20 mg/l (rainbow trout) (96 hours)
LC₅₀ = 200 mg/l (bluegill sunfish) (96 hours).

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13. DISPOSAL CONSIDERATIONS

Methods of disposal : Disposal according to the local legislation / Incinerate.

14. TRANSPORT INFORMATION

Not classified.

National transport regulations

No additional national transport regulations are known to the supplier

15. REGULATORY INFORMATION

Classification : Not classified by the EU. Self classified according to the new DPD.

Risk phrases : R52: Harmful to aquatic organisms.

Safety phrases : S13: Keep away from food, drink and animal feedingstuffs

S20/21: When using do not eat, drink or smoke

S61: Avoid release to the environment. Refer to special instructions/Safety data sheets.

Contains : 500 g/l Clofentazine.

16. OTHER INFORMATION

Recommended use : Acaricide.

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.

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