

MATERIAL SAFETY DATA SHEET

AGRIANCE

P.O. Box 8213,
Netanya, 42293, Israel.

In case of emergency, Call
972-9-865-6454

1. PRODUCT IDENTIFICATION

Product Name : CLOFAL
Active Ingredient (%) : Clofentazine 500SC
Chemical Name : 3,6-bis(2-chlorophenyl-1,2,4,5-tetrazine (IUPAC)
Chemical formula C₁₄H₈Cl₂N₄
Chemical Class Tetrazine
Use: 3,6-bis(2-chlorophenyl-1,2,4,5-tetrazine (IUPAC)

2. COMPOSITION / INFORMATION ON INGREDIENTS

Components	Weight	CAS No.	Symbols	R Phrases
Clofentazine	500 SC	74115-24-5	Xi	R 22, R 36/38, R 41

3. HAZARDS IDENTIFICATION

This product does not contain hazardous components

Adverse Human Health effects No significant hazards
Environmental Hazard: May cause long-term adverse effects in the aquatic environment.
Symptoms relating to use:
Skin Contact May cause mild eye and skin irritation.

4. FIRST AID MEASURES

- 4.1 FIRST AID:**
- Ingestion :** DO NOT INDUCE VOMITING.
Rinse mouth with water.
Give nothing to drink.
Seek medical attention immediately.
- Eye Contact :** In case of eye contact, immediately rinse with clean water for 20-30 minutes. Seek medical attention immediately.
- Skin Contact :** Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
Seek medical attention if irritation develops.
- Inhalation :** Remove victim to fresh air.
If you feel unwell, seek medical advice.

5. FIRE FIGHTING MEASURES

- 5.1 Extinguishing Suitable Media:** Use dry chemical, carbon dioxide, water spray or foam.
- 5.3 Special Exposure hazards:** Thermal decomposition generates: nitrogen oxides , sulfur oxides , hydrogen chloride , hydrogen cyanide , carbon oxides
- 5.4 Protection against fire:** Do not enter fire area without proper protective equipment, including respiratory protection.
- 5.5 Special Procedures:** Avoid (reject) fire-fighting water to enter environment.

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal Precautions:** Avoid contact with skin and eyes.
 Good ventilation of the workplace required.
 Wear recommended personal protective equipment.
 See Heading 8.
- 6.2 Environmental Precautions:** Prevent entry to sewers and public waters.
- 6.3 After spillage and/or leakage:** Clean up any spills as soon as possible, using an absorbent material to collect it. Collect spills and put it into appropriated container..

7. HANDLING AND STORAGE

- 7.1 HANDLING:** Do not breathe spray.
 Avoid contact with skin and eyes.
- 7.2 STORAGE:** Keep in original containers.
 Keep container closed when not in use.
 Store in dry, cool, well-ventilated area.
 Storage temperature :
 minimum temperature: 0 °C
 maximum temperature: 35 °C

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Personal Protection:

- Respiratory Protection:** During spraying wear suitable respiratory equipment.
- Hand Protection:** Wear suitable gloves resistant to chemical penetration. (PVC gloves.)
- Skin protection:** Wear suitable protective clothing and chemical resistant boots
- Eye protection:** Chemical goggles or safety glasses.

- 8.2 Industrial Hygiene:** Good ventilation of the workplace required.
 Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.
 Wash clothing before re-using.
- 8.3 Occupational Exposure Limits:** Not established.

9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 General Information**
- | | |
|--------------------------------------|---------------------------------|
| Physical State: | Liquid |
| Appearance : | Red |
| Odor | Mild |
| Solubility in water: | Suspension. |
| pH | 6.9 |
| | 7.2 (1% aqueous solution) |
| Flash Point (°C) | Not applicable |
| Density [kg/m³] | 1195 (20°C) |
| Viscosity | 14000 mPa (22°C) |
| Explosive properties: | Not explosive |
| Log P octanol / water at 20°C | 3.1 (Clofentezine) |
| Surface tension | 0.054 N/m (20°C; 0.05 % (w/v)) |

10. STABILITY AND REACTIVITY

- 10.1 Stability:** Stable under recommended storage and handling conditions.
- 10.2 Hazardous Reactions:** None known.
- 10.3 Materials to avoid:** None known.
- 10.4 Hazardous decomposition products :** Thermal decomposition generates: carbon oxides , sulfur oxides , hydrogen chloride , hydrogen cyanide , nitrogen oxides

11. TOXICOLOGICAL INFORMATION

- 11.1 Acute Toxicity:**
- | | |
|---------------------------------------|---------------------------------------------------------------|
| Acute Oral LD₅₀: | > 5000 mg/kg |
| Acute Dermal LD₅₀: | > 5000 mg/kg |
| Acute Inhalation | LC ₅₀ rat – No data available. |
| Dermal Irritation:
(rabbit) | Slight skin irritant |
| Eye Irritation
(Rabbit): | Slight eye irritant. |
| Sensitization: | This material was found to be non-sensitizing in guinea pigs. |

- 11.2 Chronic:**
Carcinogenicity No carcinogenic effect.
Mutagenicity Non-mutagenic.
Reproductive toxicity Not teratogenic

12. ECOLOGICAL INFORMATION

- 12.1 Ecotoxicity Effects:**
Fish: LC₅₀ (96h) 20 mg/l Oncorhynchus mykiss
 LC₅₀ (96) > 200 mg/l Lepomis macrochirus
Daphnia magna EC₅₀ (48h) > 200 mg/l
Algae NOEC (72h) > 100 mg/l

13. DISPOSAL CONSIDERATION

- 13.1 Pesticide Disposal:** Disposal must be in accordance with Federal, state, and local regulations. Dispose of container in an approved waste facility. For terrestrial uses, do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply within 100 feet of lakes, reservoirs, rivers, permanent streams, marshes, natural ponds, estuaries, and commercial fish farm ponds. Do not apply when weather conditions favor drift off crop, especially when spraying outer rows. Do not contaminate water when disposing of equipment wash waters.
- 13.2 Package product wastes:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and discard in sanitary landfill, or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke. Do not reuse empty container. Refer to product label.

14. TRANSPORT INFORMATION

Not regulated.

15. REGULATORY INFORMATION

- 15.3 Risk Phrases:** **R 53** May cause long-term adverse effects in the aquatic environment.
- 15.4 Safety phrases:** **S 2** Keep out of the reach of children.
S 13 Keep away from food, drink and animal feedingstuffs.
S 20/21 When using do not eat, drink or smoke.
S 36/37 Wear suitable protective clothing and gloves .



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16. OTHER INFORMATION

Disclaimer:

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we have been advised of the possibility of such damages.