

## Material Safety Data Sheet

### טרופר - Trooper

Date of issue: 11.2008

Revised: 01.2011

#### 1. IDENTIFICATION OF SUBSTANCE AND COMPANY

**Common name:** Trooper

**Chemical Class:** Substituted Melamine (Triazine) Insecticide

**Supplier/Manufacturer:** Tapazol Chemical works Ltd.

**Address:** HaSolela 1, West ind. Zone, Beit Shemesh, 99052.

**Tel:** 972-2-992-6040

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS no.	Quantity (%)
Cyromazine (N-cyclopropyl-1,3,5-triazine-2,4,6-triamine)	66215-27-8	75

#### 3. HAZARDS IDENTIFICATION

Trooper is slightly toxic by ingestion and in contact with skin. It is also may cause moderate skin and eye irritation.

#### 4. FIRST AID MEASURES

If poisoning is suspected, immediately contact a physician, the nearest hospital, or the Poison Center. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow the advice given.



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**Eyes:** Immediately rinse eyes with a large amount of running water. Hold eye lids apart to rinse the entire surface of the eyes and lids. Do not apply any medicating agents except on the advice of a physician.

**Skin:** Wash with plenty of soap and water, including hair and under fingernails. Do not apply any medicating agents except on the advice of a physician. Remove contaminated clothing and decontaminate prior to use.

**Ingestion:** If victim is fully conscious, give a large quantity of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person.

**Inhalation:** Move victim from contaminated area to fresh air. Apply artificial respiration if necessary.

**Notes to Physician:** There is no specific antidote if this product is ingested.

If a large amount has been ingested and emesis is inadequate, lavage stomach. Treat symptomatically.

**Medical Condition Likely to be Aggravated by Exposure:**

Individuals with pre-existing respiratory disorders should use extra care in handling this product.

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## 5. FIRE-FIGHTING MEASURES

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**Flammability:** Not Flammable.

**Unusual Fire, Explosion and Reactivity Hazards:** This material presents a slight dust explosion hazard and can form toxic gases at high temperatures.

**In Case of Fire:** Use dry chemical, foam, or CO2 extinguishing media. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area and equipment until decontaminated.

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## 6. ACCIDENTAL RELEASE MEASURES

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**In Case of Spill or Leak:** Sweep up, keeping dust to a minimum, and place in an approved chemical container. Wash the spill area with water containing a strong detergent, absorb with pet litter or other absorbent material, sweep up and place in a chemical container. Seal the container and handle in an approved manner. Do not allow wash water to contaminate water supplies.

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## 7. HANDLING AND STORAGE

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Store the material in a well-ventilated, secure area out of the reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco usage, and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

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## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

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### RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING AND PACKAGING WORKERS:

**Ingestion:** Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

**Eye Contact:** To avoid eye contact, wear safety glasses with side shields or chemical goggles.

**Skin Contact:** To avoid skin contact, wear rubber gloves, rubber boots, long-sleeved shirt, long pants and a head covering.

**Inhalation:** To avoid breathing dust, use a particulate filter. Select N or R or P type as appropriate for the oil characteristics of any other air contaminants present.

Filter efficiency may range from 95 - 99.97% as appropriate for the size distribution of dusts present.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**Appearance:** White - beige crystal powder.

**Odor:** Non-odor or almost non-odor.

**Melting Point:** 219-223<sup>0</sup>C

**pH:** 8-10 (1% suspension in water)

**Solubility in H<sub>2</sub>O:** 13 g/L (25°C, for Cyromazine).

**Vapor Pressure:** 4.2X10<sup>-7</sup> Pa (20°C, for Cyromazine).

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## 10. STABILITY AND REACTIVITY

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**Stability:** Stable at normal storage and use conditions.

**Hazardous Polymerization:** Will Not Occur.

**Conditions to Avoid:** Extreme heat.

**Hazardous Decomposition Products:** Can form toxic gases at high temperatures.

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## 11. TOXICOLOGICAL INFORMATION

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**Acute toxicity:**

**Oral:** LD50 for rat: >2000 mg/kg.

**Dermal:** LD50 for rat: >2000 mg/kg.

**Inhalation:** LD50 (4h) for rat: 5.33 mg/l.

**Skin irritation:** Moderate irritant (rabbit).

**Eye irritation:** Moderate irritant (rabbit).

**Skin sensitization:** Non-sensitizer (mouse).

The active ingredient Cyromazine has no mutagenic potential, Reproductive Hazard Potential or Carcinogenic Potential

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## 12. ECOLOGICAL INFORMATION

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### Summary of Effects

The active ingredient Cyromazine is slightly toxic to birds and fish, and moderately toxic to aquatic invertebrates.

### Eco-Acute Toxicity

For Cyromazine:

**Birds:** Acute oral LD50 for bobwhite quail 1785, 8-day dietary LC50>5,620ppm.

Japanese quail 2338, Pekin ducks >1000, Mallard ducks >2510mg/kg, 8-day dietary LC50>5,620ppm.

**Fish:** LC50 (96h) for bluegill sunfish >90, carp, catfish and rainbow trout >100mg/L.

**Daphnia:** LC50 (48h) >9.1mg/L.

**Algae:** LC50 124mg/L.

**Eco-Chronic Toxicity:** fish early Life stage MATC: 22mg/L

Invertebrate life cycle MATC: 0.45mg/L

**Bees:** Non-toxic to adult honeybees (no contact action up to 5ug/bee).

**Worms:** LC50 >1000 mg/kg.

**Other beneficial spp.:** Non-toxic

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## 13. DISPOSAL CONSIDERATIONS

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**Disposal:** Do not reuse product containers. Dispose of product containers, waste containers and residues according to local environmental regulations.

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## 14. TRANSPORT INFORMATION

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**DOT Classification:**

Not Applicable; No Label or Placard Required

**B/L Freight Classification**

Insecticides or Fungicides; Agricultural, N.O.I.

**International Transportation**

UN no.: 3077 (Environmentally hazardous substance, solid, N.O.S.)

Class: 9

Packaging group: III

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## 15. REGULATORY INFORMATION

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**R phrases:**

R21: Harmful in contact with skin

R22: Harmful if swallowed

R52: Harmful to aquatic organisms

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## 16. OTHER INFORMATION

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**Disclaimer:** The information provided by TAPAZOL CHEMICAL WORKS Ltd. In the above document is given in good faith and to the best of our knowledge. However, no warranty is expressed or implied.