

MATERIAL SAFETY DATA SHEET

CYROKAL

1. CHEMICAL IDENTIFICATION

Product Name: **CYROKAL**

Active Ingredient (%): Cyromazine 50%

Chemical Name: N-cyclopropyl-1,3,5-triazine-2,4,6-triamine

Chemical Class: Substituted Melamine (Triazine) Insecticide

Manufacturer: Tapazol LTD Beit Shemesh-

Tel: 972-2-9926040

2. COMPOSITION/INFORMATION ON INGREDIENTS

Material	OSHA PEL	ACGIH TLV	CAS no.	NTP/IARC/OSHA Carcinogen
Kaolin Clay	15 mg/m ³ TWA (Total Dust); 5mg/m ³ TWA (Respirable)	2 mg/m ³ (Respirable)	1332-58-7	No
Sipernat 22	80mg/m ³ / %SiO ₂ TWA	10 mg/m ³	112926-00-8	IARC, 3
Dispersant	Not Established	Not Established	-	No
Cyromazine tech	Not Established	Not Established	66215-27-8	No

3. HAZARDS IDENTIFICATION

Symptoms of Acute Exposure

Exposure may cause irritation of eyes, skin or upper respiratory tract.
Hazardous Decomposition Products

Can form toxic gases at high temperatures

Physical Properties

Appearance: White-beige crystal powder

Odor: inodorous or inodorous almost

Unusual Fire, Explosion and Reactivity Hazards

Can form toxic gases at high temperatures

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.

Ingestion: If victim is fully conscious, give a large quantity of water to drink and induce vomiting. Never give anything by mouth to an unconscious person.

Eye contact: 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 Contact: 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.

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.

An aqueous suspension of activated charcoal can be administered to absorb remaining toxicant.

Medical Condition Likely to be Aggravated by Exposure

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

5. FIRE FIGHTING MEASURES

Fire and Explosion

Flash Point (Test Method): Not Available
Flammable Limits (% in Air): Lower: %; Upper: % Not Applicable
Autoignition Temperature: Not Applicable
Flammability: Not Flammable

Unusual Fire, Explosion and Reactivity Hazards

This material presents a slight dust explosion hazard.

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.

6. ACCIDENTAL RELEASE MEASURES

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.

7. HANDLING AND STORAGE

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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.

Applicators/Handlers: Please refer to the product label for personal protective clothing/equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White - beige crystal Powder

Odor: inodorous or inodorous almost

Melting Point: 219-223⁰C

Boiling Point: Not Applicable

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

Solubility in H₂O

Cyromazine : 8.0 g/L @ 25°C

Vapor Pressure

Cyromazine: 1.80E-04 mPa @ 20°C

10. STABILITY AND REACTIVITY

Reactivity

Stability: Stable

Hazardous Polymerization: Will Not Occur

Conditions to Avoid: None Known

Hazardous Decomposition Products

None Known

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies formulated product

Ingestion: slightly toxic

Oral LD50 (Rat) 8800 mg/kg body weight

Dermal: slightly toxic

Dermal LD50 (Rat) : > 2000 mg/kg body weight

Inhalation: slightly toxic

Inhalation LC50 (Rat) : > 5 mg/l air - 4 hours

Eye Contact: moderately irritating (Rabbit)

Skin Contact: moderately irritating (Rabbit)

Skin Sensitization: Not a sensitizer (mouse)

Mutagenic Potential

Cyromazine: None observed

Reproductive Hazard Potential

Cyromazine: None observed

Chronic/Subchronic Toxicity Studies

Cyromazine: None observed

Carcinogenic Potential

Cyromazine: None observed

Other Toxicity Information

Not Available

Toxicity of Other Components

Amorphous Silica :

Amorphous Silica is listed as an IARC Group 3 carcinogen-not classifiable as human carcinogen (No Data Available) with limited animal evidence. Prolonged exposure to Amorphous Silica may cause damage to respiratory system and irritation to skin and eyes.

Kaolin Clay: Long term overexposure to high concentrations of this dust without the use of a respirator may produce x-ray evidence of dust in the lungs and may affect respiratory function.

Target Organs

Active Ingredient

Cyromazine: :None Known

Inert Ingredients

Amorphous Silica :Respiratory Tract, Skin and Eyes

Kaolin Clay : Respiratory Tract

12. ECOLOGICAL INFORMATION

Summary of Effects

Cyromazine:

Slightly toxic to birds and fish, and moderately toxic to aquatic invertebrates.

Eco-Acute Toxicity

Cyromazine: Rainbow Trout 96-hour LC50 51 mg/l
 Bluegill Sunfish 96-hour LC50 90 mg/l
 Daphnia magna 48-hour LC50 9.1 mg/l
 Bobwhite Oral LD50 1,785 mg/kg
 Mallard Oral LD50 >2,510 mg/kg
 Bobwhite 8-day Dietary LC50 >5,620 ppm
 Mallard 8-day Dietary LC50 >5,620 ppm

Eco-Chronic Toxicity

Cyromazine: Fish (Fathead minnow) Early Life Stage MATC 22 mg/l
 Invertebrate (Daphnia Magna) Life Cycle MATC 0.45 mg/l

Environmental Fate:

Cyromazine: Degraded rapidly by soil organisms, rapidly excreted by animals and degraded by plants.

13. DISPOSAL CONSIDERATION

Disposal

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

14. TRANSPORT INFORMATION

DOT Classification:

Not Applicable; No Label or Placard Required

B/L Freight Classification

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

International Transportation

UN no. Not Applicable

15. REGULATORY INFORMATION

To be used accordingly to label instructions.

16. OTHER INFORMATION

NFPA Hazard Ratings

Health:	1	0 Least
Flammability:	1	1 Slight
Reactivity:	0	2 Moderate
		3 High
		4 Severe

Updated: dec 2008