

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**COMPANY ADDRESS:**

ALBAUGH, INC.  
Ankeny, IA 50021

**EMERGENCY TELEPHONE NUMBERS:**

(800) 424-9300 (CHEMTREC, transportation and spills)

**PRODUCT NAME**

: MILO-PRO

**CHEMICAL NAME**

: 2-chloro-4,6-bis(isopropylamino)-s-triazine

**CHEMICAL FAMILY**

: triazine herbicide

**PRODUCT CODE**

: EPA Reg. No. 42750-148

## SECTION 2 - COMPOSITION, INFORMATION OF INGREDIENTS

COMPONENT	PERCENTAGE	CAS NUMBER	OSHA PEL	ACIGH TLV
Propazine	43.0	139-40-2	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
Ethylene glycol	4.0	107-21-1	5 mg/m <sup>3</sup>	100 mg/m <sup>3</sup>
Inert Ingredients	53.0	n/a	n/a	n/a

## SECTION 3 - HAZARDS IDENTIFICATION SUMMARY

(As defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200)

**HEALTH HAZARDS:** Harmful if swallowed, inhaled or absorbed through skin. Moderate eye irritant.

**PHYSICAL HAZARDS:** May release toxic fumes if burned.

**ENVIRONMENTAL HAZARDS:** Potential groundwater contaminant in sandy soil types.

## SECTION 4 - FIRST AID MEASURES

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting. Drink promptly a large quantity of milk, egg whites, gelatin solution, or, if these are not available, drink large quantities of water. Avoid alcohol.

**IF IN EYES:** Hold eye open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.

**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention.

**NOTE TO PHYSICIAN:** No specific antidote. If ingested, induce emesis or lavage stomach. The use of an aqueous slurry of activated charcoal may be considered.

## SECTION 5 - FIRE FIGHTING MEASURES

**FLASH POINT (method):** Will not flash

**FLAMMABLE LIMITS:** Unknown.

**FIRE AND EXPLOSION HAZARD:** May decompose in fire releasing irritating and toxic gases.

**EXTINGUISHING MEDIA:** Use foam, dry chemical, carbon dioxide, or water spray when fighting fires involving this material.

## **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Clean up spills immediately, observing precautions in Section 8 of this document. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

**SMALL SPILL:** Absorb small spills on sand, vermiculite or other inert absorbent. Place contaminated material in appropriate container for disposal.

**LARGE SPILL:** Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify, and scrape up for disposal. After removal, scrub the area with detergent and water and neutralize with dilute alkaline solutions of soda ash, or lime. Do not allow spill or clean up water to enter waterways.

Wear appropriate personal protection equipment. (See Section 8 Exposure Controls, Personal Protection.)

## **SECTION 7 - HANDLING AND STORAGE**

KEEP OUT OF REACH OF CHILDREN!

**HANDLING:** Use only in a well-ventilated area. Wear appropriate safety equipment when handling.

**STORAGE:** Store in original container with lid tightly closed. Keep away from food, feed and drinking water.. Store in a well ventilated, dry place away from heat and other sources of ignition. Store above 25° F (-5 C). If frozen, warm to 80-90 F and resuspend by shaking container before using product.

## **SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

**EXPOSURE LIMITS (8 hour TWA, ppm):** Refer to Section 3.

**ENGINEERING CONTROLS:** Proper ventilation is required when handling or using this product to keep exposure to airborne contaminants below the exposure limit. Local mechanical exhaust ventilation may be required. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

### **PERSONAL PROTECTIVE EQUIPMENT:**

**EYE PROTECTION** - Safety goggles or full face respirator if vapors cause eye discomfort.

**CLOTHING** – Coveralls over a long-sleeved shirt and long pants, Chemical resistant footwear plus socks, Chemical resistant apron when mixing/loading or cleaning equipment.

**GLOVES** – Chemical resistant gloves such as barrier laminate, butyl rubber, nitrile rubber or viton.

**RESPIRATOR** - When handling in enclosed areas where exposure limits may be exceeded, use a respirator with either an organic vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G)

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**USER SAFETY RECOMMENDATIONS:** Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible wash thoroughly and change into clean clothing.

## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

**PHYSICAL DESCRIPTION:** Off-white color, viscous liquid

**ODOR:** No appreciable odor.

**SPECIFIC GRAVITY:** 1.14 – 1.20 g/ml (9.50 – 10.00 lb/gl)\*

**pH:** 7.5 – 8.0

**VAPOR PRESSURE:** Unknown

**WATER SOLUBILITY:** Dispersible

\*Listed density is an approximate value and does not necessarily represent that of a specific batch.

## **SECTION 10 - STABILITY AND REACTIVITY**

**CHEMICAL STABILITY:** Stable, however may decompose if heated.

**CONDITIONS TO AVOID:** Avoid temperatures above (115°F, 46°C) and below 25°F (-5°C).

**INCOMPATIBILITY WITH OTHER MATERIALS:** Strong acids, bases and oxidizing materials,

**HAZARDOUS DECOMPOSITION PRODUCTS:** Hydrogen bromide, hydrogen cyanide, Oxides of nitrogen, oxides of carbon acetonitrile.

**HAZARDOUS POLYMERIZATION:** Product will not undergo polymerization.

## **SECTION 11 - TOXICOLOGICAL INFORMATION**

### **ACUTE TOXICITY:**

Oral LD <sub>50</sub> (rat)	- >5,000 mg/kg
Dermal LD <sub>50</sub> (rat)	- >2,000 mg/kg (male)
Inhalation LC <sub>50</sub> (rat)	- 2.0 mg/L
Eye Irritation (rabbit)	- Moderate
Skin Irritation (rabbit)	- Slight
Sensitization (guinea pig)	- Potential sensitizer

### **CARCINOGEN STATUS:**

OSHA	- Not listed
NTP	- Not listed
IARC	- Not listed

**MUTAGENIC DATA:** No evidence of mutagenic effects during *in vivo* or *in vitro* studies.

## **SECTION 12 - ECOLOGICAL INFORMATION**

**ENVIRONMENTAL SUMMARY:** Propazine is slightly toxic to fish. Use with care when applying to areas frequented by wildlife or near any body of water. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply when conditions favor drift from target area. Do not contaminate water when disposing of equipment washwaters. Do not contaminate water used for irrigation or domestic purposes. Propazine can leach through permeable soil types (sandy and loamy sand) and enter ground water used for drinking water. Do not mix/load or clean equipment within 50 feet of any well.

### **FISH TOXICITY:** (Propazine technical)

96 hour LC<sub>50</sub>, Rainbow trout – > 18 ppm

96 hour LC<sub>50</sub>, Bluegill – 100 ppm

### **AVIAN TOXICITY:** (Propazine technical)

Oral LC<sub>50</sub>, Bobwhite quail – > 10,000 mg/Kg

Oral LC<sub>50</sub>, Mallard duck - > 10,000 mg/Kg

**BEES:** Nontoxic.

### **SECTION 13 - DISPOSAL CONSIDERATIONS**

Do not contaminate water, food, or feed by storage or disposal.

**WASTE:** Pesticide wastes are toxic. Dispose of in accordance with applicable Federal, state and local laws and regulations at an approved facility.

**CONTAINER:** Do not reuse container. Triple rinse (or equivalent). Then offer for recycling, reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

### **SECTION 14 - TRANSPORT INFORMATION**

#### **DOT SHIPPING DESCRIPTION:**

Containers < 10,000 gallons – Not regulated by DOT

**DOT HAZARD CLASS:** N/A  
**UN NUMBER:** N/A  
**DOT PACKING GROUP:** N/A  
**DOT PRIMARY/SECONDARY LABEL:** N/A  
**DOT PRIMARY/SECONDARY PLACARD:** N/A  
**DOT EMERGENCY RESPONSE GUIDE #:** N/A

### **SECTION 15 - REGULATORY INFORMATION**

**CERCLA REPORTABLE QUANTITY:** Ethylene glycol – RQ 5000 lbs (approx 10,000 gallons Propazine 4L)

#### **SARA TITLE III STATUS:**

311/312 Hazard Categories – Immediate Health  
 313 Toxic Chemicals – Ethylene glycol

**CALIFORNIA PROP 65:** Not listed

### **SECTION 16 - OTHER INFORMATION**

HMIS HAZARD RATINGS	HEALTH	2
	FLAMMABILITY	0
	PHYSICAL HAZARD	1
	4=Severe 3=Serious 2=Moderate 1=Slight 0=Minimal	

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**REVISED DATE:** January, 2008  
**REFERENCE:** Revisions to Section 16 HMIS Table