



## MATERIAL SAFETY DATA SHEET

Conforms to U.S. Department of Labor,  
Occupational Safety and Health Administration

P.O. BOX 333, RADIO ROAD  
HANOVER, PENNSYLVANIA 17331 U.S.A.  
TELEPHONE: 717-632-8921  
FAX NO: 717 632 4581  
CABLE ADDRESS: MICO

**OXAMYL 10% GRANULAR** (also AG and PRO)'

## Section I

Manufacturer's Name <b>MILLER CHEMICAL &amp; FERTILIZER CORP.</b>	Emergency Telephone Number <b>CHEMTREC: 1-800-424-9300</b> <b>717-632-8921</b>
Address (Number, Street, City, State, and ZIP Code) <b>BOX 333, RADIO ROAD</b>	Telephone Number for Information <b>717-632-8921</b>
<b>HANOVER, PA 17331</b>	Date Prepared <b>4 / 27 / 89</b>
	Signature of Preparer (optional)

## **Section II — Hazardous Ingredients/Identity Information**

### **Section III — Physical/Chemical Characteristics**

Boiling Point	NA	Specific Gravity ( $H_2O = 1$ )	BULK DENSITY	27.5 lb./ft. <sup>3</sup>
Vapor Pressure (mm Hg)	NEGLIGI-BLE	Melting Point		NA
Vapor Density (AIR = 1)	NA	Evaporation Rate (Butyl Acetate = 1)		NA
Solubility in Water	Insoluble	(Oxamyl Tech: 28g/ml)		
Appearance and Odor	Tan Granules, Sulfurous Odor			

#### **Section IV — Fire and Explosion Hazard Data**

Flash Point (Method Used)	NA	Flammable Limits	NA	LEL	NA	UEL	NA
Extinguishing Media							

Water Spray, Chemical Foam, Dry Chemical, Carbon Dioxide

## Special Fire Fighting Procedures

Evacuate Personnel to a safe area. Keep upwind of fire.

**Protective equipment (Eye, Body, Respiratory).**

comes from fire are

~~Exposure to fire, fumes, smoke or Products of Combustion. Evacuate nonessential personnel from area.~~

(Reproduce locally) **NA** - Not Applicable or Not Available

OSHA 174, Sept. 1985

## Section V — Reactivity Data

Stability	Unstable		Conditions to Avoid	Excessive Heat, Moisture
	Stable	X		

Incompatibility (Materials to Avoid)

Strong Acids and Bases

Hazardous Decomposition or Byproducts

None Known

Hazardous Polymerization	May Occur		Conditions to Avoid	None Known
	Will Not Occur	X		

## Section VI — Health Hazard Data

Routes(s) of Entry	Inhalation?	Skin?	Ingestion?
	Yes	Yes	Yes

Health Hazards (Acute and Chronic)

Acute Oral LD<sub>50</sub>:48.5mg/Kg. Acute Dermal LD<sub>50</sub>:+2000mg/Kg. Acute Inhalation LC<sub>50</sub>:1.3mg/l four-hour Exposure

Oxamyl is a Cholinesterase Inhibitor.

Carcinogenicity	NTP?	IARC Monographs?	OSHA Regulated?
	No	No	No

Oxamyl showed no Carcinogenic, Reproductive, Teratogenic, or Mutagenic effects in tests.

Signs and Symptoms of Exposure

Weakness, Blurred Vision, Headache, Nausea, Abdominal Cramps, Discomfort in the Chest,

Constriction of Pupils, Sweating, Slow Pulse, Muscle Tremors.

Medical Conditions

Generally Aggravated by Exposure None Known

INHALATION: Remove victim to fresh air. SKIN: Wash thoroughly with soap

Emergency and First Aid Procedures

and water. EYES: Flush for 15 min. with water, call a doctor. INGESTIC

Induce Vomiting Immediately, Call a Doctor.

## Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled

Do not breath dust. Shovel material into waste container, treat area with bleach. Take up bleach with inert material. Flush area with water. Do not let water enter sewers, waterways, or low areas.

Waste Disposal Method

Dispose of waste and waste containers in accordance with Local/State/Federal Regulations.

Precautions to Be Taken in Handling and Storing

Keep away from Food, Feedstuffs and Domestic Water Supplies. Keep away from Children and Animals. Follow good industrial hygiene practices.

Other Precautions

After working with this product, thoroughly clean equipment, wash thoroughly, change clothing, and clean protective gear.

## Section VIII — Control Measures

Respiratory Protection (Specify Type)

A respirator approved by NIOSH (Pesticides/Dusts) should be worn where dust inhalation

Ventilation	Local Exhaust	Preferred	Special	could occur.
	Mechanical (General)	If Needed	Other	

Protective Gloves	Rubber or Neoprene	Eye Protection	Chemical Splash Goggles
-------------------	--------------------	----------------	-------------------------

Other Protective Clothing or Equipment	Apron, Boots, Clean Body-Covering Clothing, Hat
--	---

Work/Hygienic Practices Prevent Eating, Drinking, Tobacco Usage, and Cosmetic Application to prevent exposure

N/A = Not Applicable

**MATERIAL SAFETY DATA SHEET**

(Prepared According To 29 CFR 1910.1000)

Effective Date 10/1**SECTION 1 - PRODUCT IDENTIFICATION**

Product Name: IH Cling (M875)  
 Generic Name: Porcelain & Bowl Cleaner  
 Supplier's Name: Mesco Inc  
 Supplier's Address: 800 E 1st St, Wichita KS 67207  
 Proper Shipping Name: Compound, Cleaning, Liquid (containing Hydrochloric (Muratic) Acid) corrosive material - NA1789

Chemical Family: N/A

Formula: N/A

Phone Number: 800 777 2772  
316 264 6635NPCA Hazardous Materials  
Identification System

Health

Flammability

Reactivity

Maximum Personal Protection

**SECTION 2 - INGREDIENTS**

CHEMICAL NAME	CAS NO.	WT.%	PEL	TWA-TLV	STEL-TLV	CARC
Water	7732-18-5	to 100				
Hydrogen Chloride	7647-01-0	9.0	CG ppm	CG ppm	N/A	
Nonionic Surfactant	26027-38-3	0 to 5				
Xanthan Gum	11138-66-2	0 to 5				
Perfume Oil	119-36-8	0 to 5				
Dye	N/A	0 to 5				
Quaternary Ammonium Chloride Compound	68424-95-3	0.05				

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

CAS#	Chemical Name	Percent by Weight
7647-01-0	Hydrochloric Acid	9.0

**SECTION 3 - PHYSICAL DATA**

Boiling Range (°F): 214°F initial      Specific Gravity: 1.05  
 Vapor Pressure: 25mm Hg @ 68°F      Vapor Density: (Air=1): >1 :  
 % Volatile: 95+      pH: <1.5  
 Solubility in Water: 100%      Evaporation Rate: (Water=1): <1  
 Physical Description: Thick blue liquid with pleasant odor.

**SECTION 4 - FIRE AND EXPLOSION HAZARD DATA**

Flash Point (Method Used): N/A  
 Upper Explosive Limit: N/A Lower Explosive Limit: N/A  
 Extinguishing Media: N/A  
 Special Fire Fighting Procedures: N/A  
 Unusual Fire and Explosion Hazards: N/A

**SECTION 5 - REACTIVITY DATA**

Stability: Stable  
 Incompatibility (Materials to Avoid): Strong acids, most metals, bleach.  
 Hazardous Decomposition Products: Hydrogen or chlorine gas.

**SECTION 6 - STORAGE AND HANDLING INFORMATION**

Precautions to be Taken in Handling and Storage:  
 Keep out of reach of children. For use by trained personnel only.  
 Keep container closed during storage. For institutional and industrial use only.

**SECTION 7 - HEALTH HAZARDS AND FIRST AID**

## Effects of Overexposure:

## Primary Route of Entry:

Skin: Skin irritant. Prolonged or repeated exposure can cause dermatitis.  
 Eyes: Severe eye irritant. Liquid and mists can cause tearing, possibly swelling of the conjunctiva, and corneal injury.  
 Inhalation: May be irritating to mucous membranes of the nose, throat, and lungs.  
 Ingestion: May be irritating or corrosive to the mouth, throat, and upper gastrointestinal tract. Large doses can cause vomiting.

## First Aid Procedures:

Skin: Remove contaminated clothing. Flush exposed area with large quantities of water. Seek medical attention if irritation persists.  
 Eyes: Flush eyes with large quantities of water, holding eyelids open. Seek medical attention if irritation persists.  
 Inhalation: Get to fresh air. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist.  
 Ingestion: Do not induce vomiting. Give large quantities of water or milk. Seek medical attention immediately.

**SECTION 8 - SPECIAL PROTECTION INFORMATION**

Respiratory Protection: Use with adequate ventilation.

Ventilation: Provide local exhaust to keep TLV of Section 2 ingredients below 200 mg/m<sup>3</sup>.

Protective Gloves: Acid proof.

Eye Protection: Safety glasses.

Other Protective Equipment: N/A

**SECTION 9 - SPILL OR LEAK PROCEDURES**

## Steps to be Taken in Case Material is Released or Spilled:

## Waste Disposal Method:

Map up or otherwise absorb and hold for disposal.

Any method in accordance with applicable laws.

