

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072



IDENTITY (As Used on Label and List) ELKO ZIP
 Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name ELKHORN CHEMICAL CO., INC.	Emergency Telephone Number 414-723-2646
Address (Number, Street, City, State, and ZIP Code) One Elko Lane, PO Box 80	Telephone Number for Information 414-723-2646
Elkhorn, WI 53121	Date Prepared Revised, May, 1989
	Signature of Preparer (optional)

Section II - Ingredients/Identity Information

Components	CAS #	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Tetrasodium Ethylenediamine					
tetra-acetate	64-02-8	>	N/D	N/A	< 5
Sodium Metasilicate	6834-92-0	>	2mg/m ³	N/A	< 4
Amides, C8-18 & C18 unsat'd bis					
(Hydroxyethyl)	68155-07-7	>	N/D	N/A	1-2
Diethanolamine	111-42-2	>	3ppm 8 Hr.	N/A	.3-1
Ethylene Glycol Monobutyl					
Ether	111-76-2	>	25ppm, skin, 8 hr	N/A	< 8

Section III — Physical/Chemical Characteristics

Boiling Point	200	Specific Gravity (H ₂ O = 1)	1.03
Vapor Pressure (mm Hg.)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility in Water	Complete		
Appearance and Odor	Purple liquid		

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used)	None	Flammable Limits	N/A	LEL	UEL
Extinguishing Media	Will not burn				
Special Fire Fighting Procedures	N/A				
Unusual Fire and Explosion Hazards	N/A				

Section V — Reactivity Data

Stability	Unstable		Conditions to Avoid N/A
	Stable	X	

Incompatibility (Materials to Avoid) N/A

Hazardous Decomposition or Byproducts N/A

Hazardous Polymerization	May Occur		Conditions to Avoid N/A
	Will Not Occur	X	

Section VI — Health Hazard Data

Route(s) of Entry: Inhalation? X Skin? X Ingestion? X

Health Hazards (Acute and Chronic) Ethylene Glycol can cause irritation to throat and eyes.

Carcinogenicity: N/A NTP? IARC Monographs? OSHA Regulated?

Signs and Symptoms of Exposure Irritation - Dizziness

Medical Conditions Generally Aggravated by Exposure Dermatitis - Respiratory illness

Emergency & First Aid Procedures:
SKIN: Wash with soap & water. **EYES:** Flush thoroughly with water for at least 15 min.
 Get medical attention. **INHALATION:** Remove to fresh air. **INGESTION:** Get medical attention.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled Flush with water.

Waste Disposal Method Flush with water.

Precautions to Be Taken in Handling and Storing Good, normal hygiene practices

Other Precautions Keep out of reach of children.

Section VIII — Control Measures

Respiratory Protection (Specify Type) NIOSH/MSHA approved respirator when exposed to very heavy concentrations for sustained periods of time.

Ventilation	Local Exhaust	X	Special
	Mechanical (General)		Other

Protective Gloves Rubber gloves Eye Protection Goggles

Other Protective Clothing or Equipment N/A

Work/Hygienic Practices Good, normal hygiene practices