

1. IDENTIFICATION

IDENTIFIER (AS LABELED): Chelate 10XL
RECOMMENDED USE/RESTRICTION: Refer to Label for use and restrictions
MANUFACTURER'S NAME: Nulex, Inc.
ADDRESS: 1919 Grand Ave
Sioux City, IA 51106
EMERGENCY PHONE: Chemtrec 1-800-424-9300; 24 hrs
BUSINESS PHONE: 712-277-2011

Health	1
Fire	0
Reactivity	0

2. HAZARD(S) IDENTIFICATION

HAZARD CLASSIFICATION: Skin Irritation (2)
Eye Irritation (2A)
SIGNAL WORD: Warning
HAZARD STATEMENT(S): Causes eye, skin irritation. Harmful if inhaled.
SYMBOL(S):



PRECAUTIONARY STATEMENT(S): Wear protective gloves and clothing. Do not breathe mists/vapors. Seek medical attention if you feel unwell. Wash thoroughly after handling. If swallowed: seek medical attention if unwell. Remove contaminated clothing and wash before reuse. If in eyes or on skin: Rinse area with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye or skin irritation persists: seek medical attention.

HAZARDS NOT CLASSIFIED: Not Applicable
UNKNOWN ACUTE TOXICITY: Not Applicable

3. COMPOSITION/INFORMATION ON INGREDIENT(S)

CHEMICAL NAME	CAS #	% w/w	EXPOSURE LIMITS IN AIR					
			ACGIH		OSHA			NIOSH
			TLV TWA	STEL	PEL	STEL	IDLH	REL
Ammonium Chloride	12125-02-9	01-05%	10mg/m ³	20mg/m ³	10mg/m ³	20mg/m ³	NE	NE
Ammonium Sulfate	7783-20-2	01-05%	NE	NE	NE	NE	NE	NE
Ammonium Citrate, Tribasic	3458-72-8	00-03%	NE	NE	NE	NE	NE	NE
Tetraammine Zinc Chloride	3458-72-8	10-15%	NE	NE	NE	NE	NE	NE

4. FIRST-AID MEASURES

INHALATION: Remove person to fresh air and keep comfortable for breathing. If feeling unwell: seek medical attention.
EYES: Hold eyelids open and flush with a steady stream of water for 15-20 minutes. If irritation persists: seek medical attention.
SKIN: Wash affected area with soap and water. Irritation persists: seek medical attention. Remove contaminated clothing, wash before reuse.
INGESTION: Rinse mouth. **DO NOT INDUCE VOMITING** unless directed by a medical professional. Seek medical attention if unwell.

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MATERIALS: Not considered to be a fire hazard. Use extinguishing media applicable to the surrounding fire.
SPECIAL EQUIPMENT: Use water spray to cool containers. Wear full protective clothing and self-contained breathing apparatus (SCBA).
SPECIFIC HAZARDS: When heated to decomposition, this product will emit carbon, nitrogen and sulfur oxides; ammonia.

6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE: Contain material and place in containers for use as intended, or discard according to Federal, State and local regulations. If material enters a waterway, notify the appropriate authorities. Wear PPE according to Section 8.

7. HANDLING and STORAGE

SAFE HANDLING: Wash hands after handling material. Do not eat, drink, or smoke while handling material. Do not get in eyes, on skin or clothing. Not intended for human consumption.

SAFE STORAGE: Store in cool, dry, well-ventilated area away from incompatible materials.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

ENGINEERING CONTROLS: Use with adequate ventilation

RESPIRATORY: Where appropriate, P-95 rated dust mask.

EYE: Appropriate for the task.

HAND: Impervious and compatible with material.

BODY: Appropriate for the task.

OTHER PROTECTIVE MEASURES: A safety eye wash and shower should be accessible.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear-Blue Solution

ODOR: Slight ammonia odor

ODOR THRESHOLD: Not Established

PH: 7.5-9.5

MELT/FREEZE POINT: Not Established

BOILING POINT/RANGE: Not Established

FLASH POINT: Not Established

EVAPORATION RATE: Not Established

FLAMMABILITY: Not Established

UEL / LEL: Not Established

VAPOR PRESSURE: Not Established

VAPOR DENSITY: Not Established

RELATIVE DENSITY: 1.23-1.26

SOLUBILITY(IES): Water

PARTITION COEFFICIENT: Not Established

AUTO-IGNITION: Not Established

DECOMPOSITION TEMP: Not Established

VISCOSITY: Not Established

10. STABILITY AND REACTIVITY

REACTIVITY: Avoid incompatible materials.

CHEMICAL STABILITY: Stable under normal conditions

CONDITIONS TO AVOID: Heat

INCOMPATIBLE MATERIALS: Oxidizers, copper, brass

HAZARDOUS POLYMERIZATION: Will not occur

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Not Established.

NTP/IARC SUSPECTED CARCINOGEN: Not suspected.

SYMPTOMS OF EXPOSURE: May cause eye and skin irritation.

TOXICITY ESTIMATE(S): Not established for product as a whole.

12. ECOLOGICAL INFORMATION

ECOTOXICITY: Not Available

PERSISTENCE AND DEGRADABILITY: Long term degradation products may arise.

BIOACCUMULATIVE POTENTIAL: Products of degradation are not expected to be hazardous.

MOBILITY IN SOIL: Not tested as a whole

OTHER ADVERSE EFFECTS: Not Available

13. DISPOSAL CONSIDERATIONS

SAFE HANDLING AND DISPOSAL: Waste disposal must be in accordance with appropriate Federal, State, and local regulations.

14. TRANSPORTATION INFORMATION

UN NUMBER/SHIPPING NAME: Not Established

TRANSPORT HAZARD CLASS(ES): Not Established

DOT: Not dangerous goods

PACKING GROUP: Not Established

ENVIRONMENTAL HAZARDS: No

TRANSPORT IN BULK: Not regulated by ship type and pollution category

SPECIAL PRECAUTIONS: None

15. REGULATORY INFORMATION

SARA 302: No requirements.

SARA 311/312: No requirements.

SARA 313: No requirements.

TSCA STATUS: All constituents.

CALIFORNIA PROPOSITION 65: Not found.

CERCLA (RQ): Ammonium Chloride (5,000-lbs.)

STATE REGULATIONS: Ammonium Chloride: IL, NY, RI, PA, MN, MA, NJ, LA, CA

Ammonium Sulfate: RI, PA, FL, MA, NJ

EUROPEAN INVENTORY: Constituents of this product are listed on EINECS

16. OTHER INFORMATION

The information and recommendations herein are taken from data contained in independent industry recognized references including NIOSH, OSHA, ANSI, and NFPA. No guarantee, express or implied, and no liability is assumed by Nulex, Inc. in conjunction with the use of this information.

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