

SECTION 1. PRODUCT IDENTIFICATION

1.1 TRADE NAME (AS LABELED):

Lime Scale Remover

SYNONYMS:

N/A

CAS#:

Mixture

1.2 PRODUCT USE:

Lime Scale Remover

CHEMICAL SHIPPING NAME/CLASS:

Corrosive liquid, n.o.s./ Class 8 - Corrosive

U.N. NUMBER:

UN1760

1.3 NORTH AMERICA:

MANUFACTURER'S NAME:

Corcraft – New York State Department of Corrections and Community Supervision

ADDRESS:

Great Meadow Correctional Facility, Division of Industries

ADDRESS CONT:

550 Broadway Albany, NY 12204

BUSINESS PHONE:

518-436-6321 EXT 2620

WEB SITE INFORMATION:

www.corcraft.org

1.4 EMERGENCY PHONE NUMBERS:

800-467-4922 (CHEMTREC) THE CHEMTREC NUMBER IS TO BE CALLED ONLY IN THE EVENT OF CHEMICAL EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT INVOLVING CHEMICALS.

DATE OF CURRENT REVISION:

May 12, 2015

DATE OF LAST REVISION:

August 6, 2014

SECTION 2. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: This product is a dark green liquid with a bland odor.

Health Hazards: May cause serious burns of the skin. May cause eye damage.

Flammability Hazards: This product is a nonflammable liquid.

Reactivity Hazards: None known.

Environmental Hazards: The Environmental effects of this product have not been investigated, however release may cause adverse environmental effects.

GHS Hazard Symbol(s)



US DOT SYMBOL(S)



Signal Word: **Danger!**

2.1 GHS LABELING AND HAZARD CLASSIFICATION:

This product does meet the definition of a hazardous substance or preparation as defined by Health Canada and the OSHA (as described in 29 CFR 1910.1200(d))

Component(s) Contributing to Classification(s)

All ingredients

2.2 LABEL ELEMENTS

GHS Hazard Classification(s):

Skin Corrosion, Category 1A

Hazard Statement(s):

H314 Causes severe skin burns and eye damage

Precautionary Statement(s):

P280 Wear protective gloves/eye protection/face protection.

P264 Wash thoroughly after handling.

P260 Do not breathe dusts or mists.

Storage Statement(s):

P405 Store locked up.

Disposal Statement(s):

P501 Dispose of contents/container in accordance with local/regional/national/international regulations



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Response Statement(s):

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P363 Wash contaminated clothing before reuse.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

2.3 HEALTH HAZARDS OR RISKS FROM EXPOSURE:

SYMPTOMS OF OVEREXPOSURE BY ROUTE OF EXPOSURE: The most significant routes of overexposure for this product are by contact with skin or eyes. The symptoms of overexposure are described in the following paragraphs.

ACUTE:

INHALATION: Mist or spray may cause coughing, headache, throat and respiratory irritation.

CONTACT WITH SKIN: Corrosive material may cause redness, skin burns, or blisters.

EYE CONTACT: Corrosive material may cause irritation with possible burns and tissue damage.

INGESTION: May cause gastrointestinal irritation, vomiting, or headache.

CHRONIC: None known

TARGET ORGANS: **Acute:** Skin, Eyes

Chronic: None known

SECTION 3. COMPOSITION AND INFORMATION ON INGREDIENTS

COMPOSITION	WT. PERCENTAGE	CAS#	HAZARD CLASSIFICATION
Uronium hydrogen sulphate	10-30%	21351-39-3	[C]Corrosive
Urea	1-5%	57-13-6	None
oxirane, methl- polymer with oxirane	0.1-1%	9003-11-6	None
Balance of other ingredients are non-hazardous or less than 1% in concentration (< 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).			

NOTE: ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2010 format.

4. FIRST-AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES:

EYE CONTACT: If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Remove contacts if present and easy to do. Seek medical attention if irritation persists.

SKIN CONTACT: Wash skin thoroughly with soap and water after handling. Seek medical attention if irritation develops and persists.

INHALATION: If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention.

INGESTION: If this product is swallowed, call physician or poison control center for treatment advice. Do not induce vomiting unless told to do so by a poison control center or physician. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. If transporting take a copy of the label and/or SDS with the victim to the health professional.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing skin problems may be aggravated by prolonged contact.

4.2 SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

Contact with skin, eyes, or the respiratory tract may cause irritation.

4.3 RECOMMENDATIONS TO PHYSICIANS:

Treat symptoms and eliminate overexposure.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 FIRE EXTINGUISHING MATERIALS:

Use fire extinguishing methods below:

Water Spray: Yes Carbon Dioxide: Yes
 Foam: Yes Dry Chemical: Yes
 Halon: Yes Other: Any "C" Class

5.2 UNUSUAL FIRE AND EXPLOSION HAZARDS: None Known

Explosion Sensitivity to Mechanical Impact: No
 Explosion Sensitivity to Static Discharge: No

FLASH POINT: Not Available

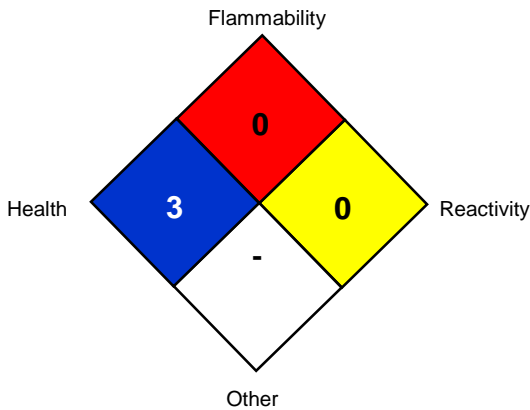
AUTOIGNITION TEMPERATURE: Not determined

FLAMMABLE LIMITS (in air by volume, %): Lower NA Upper NA

5.3 SPECIAL FIRE-FIGHTING PROCEDURES:

Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

NFPA RATING SYSTEM



HMIS RATING SYSTEM

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM			
HEALTH HAZARD (BLUE)			3
FLAMMABILITY HAZARD (RED)			0
PHYSICAL HAZARD (YELLOW)			0
PROTECTIVE EQUIPMENT			
EYES	RESPIRATORY	HANDS	BODY
	See Sect 8		See Sect 8
For Routine Industrial Use and Handling Applications			

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

See Section 8.2 for Exposure Controls

6.2 ENVIRONMENTAL PRECAUTIONS:

Construct a dike to prevent spreading. Keep out of sewers, storm drains, surface waters, and soils

6.3 SPILL AND LEAK RESPONSE:

Stop the flow of material, if this can be done safely. Contain discharged material. Absorb spill using an absorbent, non-combustible material such as earth, sand, or vermiculite. Place in a proper container for disposal. Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces. (see Section 13, Disposal Considerations).

SECTION 7. HANDLING and STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING:

As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Use good hygiene practices. When handling, do not eat, drink, or smoke. Handle in a well-ventilated work area.

7.2 STORAGE AND HANDLING PRACTICES:

Store in original container and locked up. Keep in a well-ventilated area in closed containers. Protect containers from physical damage.

7.3 SPECIFIC USES:

Lime Scale Remover

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 EXPOSURE PARAMETERS:

Chemical Name	CAS#	ACGIH TLV	OSHA TWA
Uronium hydrogen sulphate	21351-39-3	Not listed	Not listed
Urea	57-13-6	Not listed	Not listed
oxirane, methl- polymer with oxirane	9003-11-6	Not listed	Not listed

8.2 EXPOSURE CONTROLS:

VENTILATION AND ENGINEERING CONTROLS: Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada.

RESPIRATORY PROTECTION: Not required for properly ventilated areas. Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93.

EYE PROTECTION: Safety glasses or goggles are required. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate Standards of Canada.

HAND PROTECTION: Chemical resistant gloves are required to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada.

BODY PROTECTION: Use body protect appropriate to task being performed. If necessary, refer to appropriate Standards of Canada and U.S. OSHA 29 CFR 1910.138. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136.

SECTION 9. PHYSICAL and CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE (Physical State) and COLOR: Dark Green liquid

ODOR: Bland

ODOR THRESHOLD: Not Applicable

pH: .1-.2

MELTING/FREEZING POINT: Not Available

BOILING POINT: 212°F

FLASH POINT: Not Available

EVAPORATION RATE (n-BuAc=1): Not Available

FLAMMABILITY (SOLID, GAS): Not Applicable

UPPER/LOWER FLAMMABILITY OR EXLOSION LIMITS: Not Available

VAPOR PRESSURE (mm Hg @ 20°C (68°F): Not Available

VAPOR DENSITY: Not Available

RELATIVE DENSITY: Not Available

SPECIFIC GRAVITY: 1.132 - 1.162

SOLUBILITY IN WATER: Complete

WEIGHT PER GALLON: Not Available

PARTITION COEFFICENT (n-octanol/water): Not Available

AUTO-IGNITION TEMPERATURE: Not Applicable

DECOMPOSITION TEMPERATURE: Not Available

VISCOSITY: Water thin

9.2 OTHER INFORMATION:

No additional information available

SECTION 10. STABILITY and REACTIVITY

10.1 REACTIVITY:

None known.

10.2 STABILITY:

Stable under conditions of normal storage and use.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS:

Will not occur.

10.4 CONDITIONS TO AVOID:

Contact with incompatible materials.

10.5 MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE:

Strong acids

10.6 HAZARDOUS DECOMPOSITION PRODUCTS:

No data available.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

TOXICITY DATA:

No specific data available on this product.

SUSPECTED CANCER AGENT: Ingredients within this product, that are greater than the applicable cut-off values, are not found on the following lists: FEDERAL OSHA Z LIST, NTP, IARC, or CAL/OSHA and therefore are not considered to be, nor suspected to be, cancer-causing agents by these agencies.

IRRITANCY OF PRODUCT: This product may be irritating to skin, eyes or respiratory system.

SENSITIZATION TO THE PRODUCT: This product is not expected to be a skin sensitizer.

REPRODUCTIVE TOXICITY INFORMATION: No data available.

SECTION 12. ECOLOGICAL INFORMATION

12.1 TOXICITY:

No specific data available on this product.

12.2 PERSISTENCE AND DEGRADABILITY:

No specific data available on this product.

12.3 BIOACCUMULATIVE POTENTIAL:

No specific data available on this product.

12.4 MOBILITY IN SOIL:

No specific data available on this product.

12.5 OTHER ADVERSE EFFECTS:

This product is not expected to be harmful to plants, animals or aquatic life.

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS:

Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, and those of Canada.

SECTION 14. TRANSPORTATION INFORMATION

US DOT:

U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS: This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.

14.1 UN IDENTIFICATION NUMBER:

UN1760

14.2 PROPER SHIPPING NAME:

Corrosive liquid, n.o.s

14.3 HAZARD CLASS NUMBER and DESCRIPTION:

Class 8 - Corrosive

14.4 PACKING GROUP:

III

DOT LABEL(S) REQUIRED:

Corrosive

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER: 154



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14.5 ENVIRONMENTAL HAZARDS: (RQ QUANTITY): None

MARINE POLLUTANT: The components of this product are designated by the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

14.6 SPECIAL PRECAUTION FOR USER: None

SECTION 15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS SPECIFIC FOR THE SUBSTANCE OR MIXTURE:

UNITED STATES REGULATIONS:

U.S. SARA REPORTING REQUIREMENTS: The components of this product are not subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

U.S. SARA THRESHOLD PLANNING QUANTITY: There are no specific Threshold Planning Quantities for the components of this product. The default Federal SDS submission and inventory requirement filing threshold of 10,000 lbs (4,540 kg) therefore applies, per 40 CFR 370.20.

SARA 311/312: Acute Health: Yes; Chronic Health: No; Fire: No; Reactivity: No

U.S. CERCLA REPORTABLE QUANTITY (RQ): None.

U.S. TSCA INVENTORY STATUS: The components of this product are listed on the TSCA Inventory or are exempted from listing.

OTHER U.S. FEDERAL REGULATIONS: None known.

SECTION 16. OTHER INFORMATION

ABBREVIATIONS AND ACRONYMS:

EPA: United States Environmental Protection Agency

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

NFPA: National Fire Protection Association (USA)

HMS: Hazardous Materials Identification System (USA)

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The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. Corcraft assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, Corcraft assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed.

END OF SDS SHEET