

**SECTION 1 - IDENTIFICATION**

**Product Identifier:** Envirox™ Green Certified: Hard Water / Soap Scum Remover RTU (Formerly Mineral Shock RTU)

**Product Number:** 138

**Recommended use of the chemical and restrictions on use:**  
Descalant

**Manufacturer/Supplier:**

Envirox LLC P.O. Box 2327, 1938 E. Fairchild St., Danville, IL 61834-2327 USA Tel 1-217-442-8596

**Emergency Phone Number:**

ChemTel Inc. 800-255-3924, +1-813-248-0585

**SECTION 2 –HAZARD(S) IDENTIFICATION**

**Classification of the substance or mixture:**



Eye Irritation Category 2A

**Signal Word –** Warning

**Hazard statements:**

H319 Causes serious eye irritation.

**Precautionary statements:**

P264 Wash thoroughly after handling.

P280 Wear gloves and eye protection.

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

P337+P313 IF eye irritation persists: Get medical advice/attention.

**Other hazards:** None

**Ingredients with Unknown Acute Toxicity:** None

**SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS**

**Chemical characterization:** Mixture

**Hazardous components:**

Ingredient	CAS Number	Percent
Urea Hydrochloride	506-89-8	2.5-10
3-methoxy-3-methyl-1-butanol	56539-66-3	<= 2.5

Exact percentages and identities are withheld as trade secrets.

**SECTION 4 - FIRST-AID MEASURES**

**Description of necessary measures:**

**After inhalation:** Supply fresh air; consult doctor in case of complaints. In case of irregular breathing or respiratory arrest provide artificial respiration.

**After skin contact:** Immediately rinse with water. If skin irritation continues, consult a doctor. Immediately remove any clothing soiled by the product.

**After eye contact:** Remove contact lenses if worn, if possible. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:** Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately.

**Most important symptoms and effects, both acute and delayed:** Nausea, cramp, dizziness, thirst, coughing, breathing difficulty. Danger of gastric perforation. Danger of pulmonary edema.

**Indication of any immediate medical attention and special treatment needed:** If necessary oxygen respiration treatment. Medical supervision for at least 48 hours. Later observation for pneumonia and pulmonary edema. In cases of irritation to the lungs, initial treatment with cortical steroid inhalants.

**SECTION 5 - FIRE-FIGHTING MEASURES**

**Suitable extinguishing media:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Unsuitable extinguishing media:** None.

**Special hazards arising from the substance or mixture:** Formation of toxic gases is possible during heating or in case of fire. In case of fire, the following can be released: Hydrogen chloride (HCl). In certain fire conditions, traces of other toxic gases cannot be excluded.

**Special protective equipment and precautions for fire-fighters:** Wear self-contained respiratory protective device. Wear fully protective suit.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES:

**Personal precautions, protective equipment and emergency procedures:** Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Particular danger of slipping on leaked/spilled product.

**Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Clean the affected area carefully; suitable cleaners are: Warm water.

## SECTION 7 - HANDLING AND STORAGE

**Precautions for safe handling:** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Avoid splashes or spray in enclosed areas.

**Conditions for safe storage, including any incompatibilities:** Store in a cool location. Protect from humidity and water. Unsuitable material for receptacle: steel. Unsuitable material for receptacle: aluminum. Avoid storage near extreme heat, ignition sources or open flame. Do not store together with acids. Store away from oxidizing agents. Store away from foodstuffs. Store in cool, dry conditions in well-sealed receptacles. Store receptacle in a well ventilated area. Keep receptacle tightly sealed.

## SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

**Components with workplace control parameters:** The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Appropriate engineering controls:** No further information available.

**Personal protective equipment:**

**Respiratory protection:** Use suitable respiratory protective device when aerosol or mist is formed. Use suitable respiratory protective device in case of insufficient ventilation. For spills, respiratory protection may be advisable.

**Protection of hands:** Protective gloves, Butyl rubber or Neoprene gloves. Wash hands before breaks and at the end of work.

**Eye protection:** Safety glasses.

**Body protection:** Acid resistant protective work clothing.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Form: Liquid Color: Clear	Explosive Limits	Upper: Not Determined
Odor:	Light	Vapor pressure:	23 hPa (17 mm Hg)
Odor threshold:	Not determined	Vapor density:	Not determined
pH value at 20 °C (68 °F):	<1	Relative Density:	1.007
Melting point/Melting range:	Undetermined	Solubility:	Fully miscible
Boiling point/Boiling range:	212 °F / 100 °C	Partition coefficient (noctanol/water):	Not determined
Flash point:	Not applicable	Auto-ignition temperature:	Not self-igniting
Evaporation rate:	Not determined	Decomposition temperature:	Not determined
Flammability (solid, gaseous):	Not applicable	Viscosity:	Not determined
Explosive Limits	Lower: Not Determined		

## SECTION 10 - STABILITY AND REACTIVITY

**Reactivity:** No further information available.

**Chemical stability:** No decomposition if used and stored according to specifications.

**Possibility of hazardous reactions:** Reacts with alkali and metals. Reacts with amines. Reacts with oxidizing agents. Corrodes copper and brass. Corrodes aluminum. Reacts with many consumer products, releasing chlorine or chlorine oxide gas.

**Conditions to avoid:** Store away from oxidizing agents.

**Incompatible materials:** Caution! Do not use in conjunction with other products. Dangerous gases (chlorine) may be given off.

**Hazardous decomposition products:** Hydrogen chloride (HCl), chlorine, carbon monoxide and carbon dioxide, nitrogen oxides.

## SECTION 11 - TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure:**

**Inhalation:** Slight irritant effect on mucous membranes.

**Ingestion:** None under normal use.

**Skin contact:** Slight irritant effect on skin and mucous membranes.

**Eye Contact:** Irritating effect.

**Symptoms related to the physical, chemical and toxicological characteristics:** No further information available.

**Delayed and immediate effects and also chronic effects from short and long term exposure:** No further information available.

**Measures of toxicity:** 506-89-8 Urea Hydrochloride-Oral LD50 1100 mg/kg (rat)

**Carcinogenic categories:**

NTP(National ToxicologyProgram):	None of the ingredients are listed.
IARC (International Agency for Research on Cancer):	None of the ingredients are listed.
OSHA(Occupational Safety and Health Administration):	None of the ingredients are listed.

## SECTION 12 - ECOLOGICAL INFORMATION

**Ecotoxicity: Aquatic toxicity:** 506-89-8 Urea Hydrochloride - EC50 70-100 mg/kg (daphnia) **Terrestrial toxicity:** No further relevant information available. **Persistence and degradability:** No further relevant information available. **Bioaccumulative potential:** No further relevant information available. **Mobility in soil:** No further relevant information available. **Other adverse effects:** Harmful to fish. Must not reach bodies of water or drainage ditch undiluted or unneutralized. Harmful to aquatic organisms.

## SECTION 13 - DISPOSAL CONSIDERATIONS

**Waste disposal methods:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations. Can be disposed of with household garbage with prior chemical-physical or biological treatment following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations. **Contaminated packaging:** Disposal must be made according to official regulations. **Recommended cleansing agents:** Water, if necessary with cleansing agents.

## SECTION 14 - TRANSPORT INFORMATION

UN number (DOT, IMDG, IATA):	Not Regulated.
UN proper shipping name (DOT, IMDG, IATA):	Not Regulated.
Transport hazard class(es) (DOT, IMDG, IATA):	Not Regulated.
Packing group (DOT, IMDG, IATA):	Not Regulated.
Environmental hazards: <b>Marine pollutant (Yes/No):</b>	No
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Not applicable.
Special precautions for user:	Not applicable.

## SECTION 15 - REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation specific for the substance or mixture: United States (USA) SARA**

Section 355 (extremely hazardous substances):	None of the ingredients are listed.
Section 313 (specific toxic chemical listings):	None of the ingredients are listed.
TSCA (Toxic Substances Control Act):	All ingredients are listed.

**Proposition 65 (California):**

Chemicals known to cause cancer:	None of the ingredients are listed.
Chemicals known to cause reproductive toxicity for females:	None of the ingredients are listed.
Chemicals known to cause reproductive toxicity for males:	None of the ingredients are listed.
Chemicals known to cause developmental toxicity	None of the ingredients are listed.

**Carcinogenic Categories:**

EPA(Environmental Protection Agency):	None of the ingredients are listed.
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**Chemical safety assessment:** A chemical safety assessment has not been carried out.

## SECTION 16 - OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**HMS:**

**Health:** 1

**Fire:** 0

**Reactivity:** 0

**SDS Preparation:**

**Revision Date:** January 20, 2015

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