

SECTION 1 - IDENTIFICATION

Product Identifier: EnvirOx™ Mineral Shock Concentrate

Product Number: 141

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:

Skin Irritation 2

Eye Irritation 2A

Signal Word – Warning



Hazard statements:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements:

P264 Wash thoroughly after handling.

P280 Wear gloves and eye protection.

P302+P352 If on skin: Wash with plenty of water.

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

P332+P313 If skin irritation occurs: Get medical advice/attention

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	25-50
N-Dodecanoyl-N-methylglycine, sodium salt	137-16-6	2.5-10
Proprietary Organic Salt Additive	Proprietary	<=2.5
Dipropylene glycol monomethyl ether	34590-94-8	5.00 – 7.00

SECTION 4 - FIRST-AID MEASURES

Exact percentages and identities are withheld as trade secrets.

Description of necessary measures:

After inhalation: Supply fresh air. In case of irregular breathing or respiratory arrest provide artificial respiration. Seek medical treatment in case of complaints.

After skin contact: Immediately rinse with water. If skin irritation continues, consult a doctor. Seek immediate medical help for blistering or open wounds. Immediately remove any clothing soiled by the product.

After eye contact: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then, continue rinsing eye. Call a poison control center or doctor for treatment advice.

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: Breathing difficulty, coughing, cramp, nausea, acidosis, disorientation. Danger of gastric perforation. Danger of pulmonary edema. Danger of impaired breathing. Danger of disturbed cardiac rhythm.

Indication of any immediate medical attention and special treatment needed: Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident. If necessary oxygen respiration treatment. 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: : CO2, 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:** During heating or in case of fire poisonous gases are produced. 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. Cool endangered receptacles with water spray.

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:** Use limestone to neutralize and absorb spill. Dispose contaminated material as waste according to item 13. 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. Avoid storage near extreme heat, ignition sources or open flame. Unsuitable material for receptacle: steel. Unsuitable material for receptacle: aluminum. Store only in the original receptacle. Store away from foodstuffs. Do not store together with alkalis (caustic solutions). Store away from metals. 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 following limits apply:

Chemical Name	ACGIH	OSHA PEL
Dipropylene glycol monomethyl ether	100 ppm 8 hour TLV	100 ppm
	150 ppm 15 minute STEL	

Appropriate engineering controls: No further information available. **Personal protective equipment:** **Respiratory protection:** Not necessary if room is well-ventilated. Use suitable respiratory protective device when aerosol or mist is formed. Use suitable respiratory protective device when high concentrations are present. 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 **Eye protection:** Safety glasses. Avoid contact with eyes.
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:	1.100
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:	>500 °F / >260 °C (Estimated)
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 relevant information available. **Chemical stability:** No decomposition if used and stored according to specifications. **Possibility of hazardous reactions:** Toxic fumes may be released if heated above the decomposition point. Corrosive action on metals. Possible development of hydrochloric acid in humid air. Violent reaction with concentrated alkali and 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:** Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach. **Skin contact:** 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 only.

SECTION 14 - TRANSPORT INFORMATION

This product is not regulated when shipped according to DOT rules in the US.

UN number (DOT, IMDG, IATA):	Not applicable
UN proper shipping name (DOT, IMDG, IATA):	Not applicable
Transport hazard class(es) (DOT, IMDG, IATA):	Not applicable
Packing group (DOT, IMDG, IATA):	Not applicable
Environmental hazards: Marine pollutant (Yes/No):	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

Revision Date

17 March 2017

Disclaimer: EnvirOx LLC cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.