

## SAFETY DATA SHEET

### SECTION I: IDENTIFICATION

**Product:** Ripper

**Description:** Concrete Remover

**Company Identification:** Solutions<sup>2</sup> LLC  
1621 North 1st Street  
Winterset, IA 50273  
Phone: 515-493-1153  
Website: www.Solutions2llc.com



**Company Emergency Telephone Number:** CHEMTREC 1-800-424-9300

### SECTION II: HAZARD(S) IDENTIFICATION

#### GHS CLASSIFICATION

**Acute Toxicity - Inhalation:** Harmful if swallowed - Category 4.  
Harmful if inhaled - Category 4.

**Skin Corrosion / Irritation:** Causes severe skin burns and eye damage - Category 1B.

**Eye Damage / Eye Irritation:** Causes serious eye damage - Category 1.  
May cause respiratory irritation - Category 1.

**Corrosive to Metals:** Category 1

#### GHS LABEL ELEMENTS

**Signal Word:** Danger

**Hazard Pictograms:**



#### HAZARD STATEMENTS

**Health:** Harmful if swallowed.  
May cause respiratory irritation.  
Causes severe skin burns and eye damage.  
Causes serious eye damage.  
Harmful if inhaled.

#### PRECAUTIONARY STATEMENTS

**Prevention:** Avoid breathing dust/fumes/gas/mist/vapors/spray.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/protective clothing/eye protection/face protection.

**Response:** Specific treatment (see this label).  
Wash contaminated clothing before reuse.

**Eyes:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

**Skin:** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

**Inhalation:** IF INHALED: Move person to fresh air and keep comfortable for breathing.

**Ingestion:** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

**Spill:** Absorb spillage to prevent material damage.

**Storage:** Store in accordance with local/regional/national and international regulations.  
Store in a well-ventilated place. Keep container tightly closed.  
Store away from incompatible materials. Store locked up.

**Disposal:** Dispose of contents in accordance with local/regional/national and international regulations.

### SECTION III: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS #	Weight - %
Water	7732-18-5	42-47%
Nonylphenol polyethylene glycol ether	127087-87-0	1-6%
Hydrochloric Acid	7647-01-0	51-56%

Specific chemical identity and/or exact percentage of mixture has been withheld as a trade secret.

### SECTION IV: FIRST AID MEASURES

**Eye Contact:** Immediately flush eyes with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

**Skin Contact:** Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

**Inhalation:** If over exposure occurs, and respiratory symptoms occur, move victim away from exposure and into fresh air. Oxygen should be administered if breathing difficulties develop. Seek immediate medical attention.

**Ingestion:** If ingested do not induce vomiting. Give water or milk of magnesia. Never give anything to an unconscious person. Do not leave victim unattended. Get immediate medical attention.

### SYMPTOMS OF EXPOSURE

**Eye Contact:** Corrosive, causes eye burns. Direct eye contact with product may cause redness, tearing and stinging.

**Skin Contact:** Corrosive, causes burns with contact.

**Inhalation:** Corrosive, breathing high concentrations of vapors or mists causes irritation of the nose and throat, dizziness, weakness, fatigue, nausea, headache.

**Ingestion:** Corrosive, ingestion can cause immediate pain and burns to the mouth, throat, esophagus and gastrointestinal tract. May cause nausea, vomiting and diarrhea.

**Comments:** If exposure and symptoms occur seek immediate medical attention.

### SECTION V: FIRE-FIGHTING MEASURES

**Extinguishing Media:** Flood with water, dry chemical powder, CO<sub>2</sub> or alcohol foam.

**Specific Hazards from the Chemical:** Hazardous decomposition. Highly corrosive to many materials. Hydrogen gas formed on contact with most metals. HCl Vapors emitted when heated. Chlorine gas may be formed by electrolysis or oxidation. Avoid breathing dust, fumes, gas, mist, vapors or spray.

**Hazardous Combustion Products:** Muriatic acid does not decompose at temperatures below 1500° C. It is non-flammable, however flammable and potentially explosive hydrogen gas is generated from reaction with most metals.

**Protective Equipment / Precautions for Firefighters:** Special fire fighting procedures: Cool exposed equipment with water spray using

full protective clothing and self contained breathing apparatus if fighting fire.  
Unusual fire and explosion hazards: None expected. Can react with most metals to form flammable hydrogen gas.

## SECTION VI: ACCIDENTAL RELEASE MEASURES

- Personal Precautions:** Put on appropriate personal protective equipment (see Section 8).
- Environmental Precautions:** Do not allow spills to enter drains or waterways. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using the toilet. Promptly remove any soiled clothing and wash thoroughly before reuse.
- Methods for Cleaning Up:** Precautions in case of a spill: Absorb spill with inert material, place in a chemical waste container, then neutralize with soda ash or lime. For large spills, dike and isolate spill for later disposal, neutralize with soda ash or lime. Immediately clean up of any spill is recommended. Dispose of in accordance with local, state and federal regulations. Contain, dilute cautiously with water, and neutralize with soda ash or lime.

## SECTION VII: HANDLING AND STORAGE

- Precautions for Safe Handling:** See Section 2 for further details (Prevention).
- Conditions for Safe Storage, Including any Incompatibilities:** Storage facilities must be properly designed. Use dikes to contain any spillage. Store between 40° F and 140° F.
- Incompatible Materials:** Contact with metal oxides, hydroxides, amines, carbonates and other alkaline metals. Strong alkaline material, will attack most metals. Avoid contact with glass.
- Safe Storage:** Store in unopened container under cool and dry conditions. Keep out of direct sunlight. Do not rinse or reuse empty container. Do not store with or near strong bases. See Section 2 for further details (Storage).

## SECTION VIII: EXPOSURE CONTROLS / PERSONAL PROTECTION

- Occupational Exposure Limits:** None established.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
Hydrochloric Acid	2 ppm	7 mg/m <sup>3</sup> - 5 ppm	7 mg/m <sup>3</sup> - 5 ppm

- Engineering Controls:** Forced Mechanical Exhaust recommended. Eye wash station should be available. Fresh water supply should be available. Use good personal hygiene practices.

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

- Eye/Face Protection:** Chemical splash goggles.
- Skin/Body Protection:** Acid resistant gloves. Full acid resistant clothing and boots recommended.
- Respiratory Protection:** Do not inhale vapors. Engineering or administrative controls should be implemented to reduce exposure. Use NIOSH recommended respirator if needed.
- General Hygiene:** Wash hands before eating, drinking, smoking or using the toilet. Promptly remove any contaminated clothing and thoroughly wash before reuse.
- See Section 2 for further details (Prevention).

## SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

Appearance / Color	Liquid / Clear Pink
Odor	Typical Acid
pH	1.5 - 2.0
Melting Point / Freezing Point	No information available
Boiling Point / Boiling Range	> 212° F

Flash Point	> 100° C / > 212° F
Evaporation Rate	No information available
Flammability (Solid, gas)	No information available
Upper Flammability Limit	No information available
Lower Flammability Limit	No information available
Vapor Pressure	No information available
Vapor Density	No information available
Specific Gravity	1.445
Solubility(ies)	No information available
Partition Coefficient	No information available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available

## SECTION X: STABILITY AND REACTIVITY

<b>Reactivity:</b>	Hazardous polymerization will not occur.
<b>Chemical Stability:</b>	Stable under normal circumstances.
<b>Possibility of Hazardous Reaction:</b>	No data available.
<b>Conditions to Avoid:</b>	Avoid heat and direct sunlight. Self contained breathing apparatus should be used to prevent inhalation of gases. Water fog will be the most effective for controlling vapors.
<b>Incompatible Materials:</b>	Contact with metal oxides, hydroxides and other alkaline metals. Strong alkaline material. Will attack most metal. Avoid contact with glass.
<b>Hazardous Decomposition:</b>	Highly corrosive to many materials. Hydrogen gas formed on contact with most metals. HCl vapors emitted when heated. Chlorine gas may be formed by electrolysis or oxidation.

## SECTION XI: TOXICOLOGICAL INFORMATION

**Acute Toxicity Estimates (ATE):**

### INFORMATION ON TOXICOLOGICAL EFFECTS

**Component Acute Toxicity:**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Nonylphenol polyethylene glycol ether	3,980 mg/kg (Rat)	2,991 mg/l (Rabbit)	
Hydrochloric Acid	900 mg/kg (Rabbit)	1,449 mg/kg (Mouse)	Vapor (Mouse) 781 mg/l, 4 hrs Gas (Rat) 3,124 ppm

Note: When no route specific LD50 data is available for an acute toxin, the acute toxicity point estimate was used in the calculation of the products ATE (Acute Toxicity Estimate).

**Likely Routes of Exposure:** Mouth, nose, eye and skin.

### SYMPTOMS OF EXPOSURE

<b>Eye Contact:</b>	Causes serious eye damage.
<b>Skin Contact:</b>	Causes severe skin burns and eye damage.
<b>Inhalation:</b>	Harmful if inhaled.
<b>Ingestion:</b>	Harmful if swallowed.

### IMMEDIATE, DELAYED, CHRONIC EFFECTS

**Carcinogenicity:** Not applicable.

## SECTION XII: ECOLOGICAL INFORMATION

**Ecotoxicity:**

Chemical Name	Algae/Aquatic Plants	Fish	Microtoxicity	Crustacea
Nonylphenol polyethylene glycol ether		1-10 mg/l, 96 hrs	> 1,000 mg/l, 16 hrs	9.3-21.4 mg/l, 48 hrs
Hydrochloric Acid		282 mg/l, 96 hrs		

**Persistence and Degradability:** Not available.

**Bioaccumulative Potential:** Not available.

**Mobility in Soil:** Not available.

**SECTION XIII: DISPOSAL CONSIDERATIONS**

**Disposal of Waste:** Dispose of in accordance with federal, state and local regulations.

**Contaminated Packaging:** Dispose of in accordance with federal, state and local regulations.

**SECTION XIV: TRANSPORT INFORMATION**

**DOT:**

**UN/ID #:** 1760

**Proper Shipping Name:** Compound, Cleaning Liquid, (Hydrochloric Acid Solution).

**Hazard Class:** 8

**Packing Group:** II

**SECTION XV: REGULATORY INFORMATION**

**TSCA Status: (Toxic Substance Control Act Section 8(b) Inventory):**

All chemical components in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

**SARA 313:** This product does not contain listed substances above the "de minimus" level.

**SARA 311/312 Hazard Categories:** Hydrochloric Acid 5,000 pounds RQ

**EPCRA 302 Extremely Hazardous:** Hydrochloric Acid

**EPCRA 313 Toxic Chemicals:** Hydrochloric Acid

**Acute Health Hazard:** Yes

**Chronic Health Hazard:** No

**Fire Hazard:** No

**Sudden Release of Pressure Hazard:** No

**Reactive Hazard:** No

**California Proposition 65:** To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**SECTION XVI: OTHER INFORMATION**

**Issue Date:** 06/01/15

**HAZARD RATINGS:**

**Version #:** 1

<b>NFPA:</b>	Health: 3	Flammability: 0	Instability: 0
<b>HMIS:</b>	Health: 3	Flammability: 0	Physical Hazards: 0

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