

SECTION I: IDENTIFICATION

Product: Ripper RTU

Description: Concrete Remover

Company Identification: Solutions² LLC
1621 N. 1st St.
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

STOT SE: May cause respiratory irritation. - Category 3

Corrosive to Metals: May be corrosive to metals. - Category 1

GHS LABEL ELEMENTS

Signal Word: **Danger**

Hazard Pictograms:



Hazard Statements: May cause respiratory irritation.
Causes severe skin burns and eye damage.
Causes serious eye damage.
Harmful if inhaled.
May be corrosive to metals.

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: IF SWALLOWED: Call a POISON CONTROL CENTER or doctor/physician if you feel unwell.
IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Call a POISON CONTROL CENTER or doctor/physician if you feel unwell.
IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
Immediately call a POISON CONTROL CENTER or doctor/physician.
Rinse mouth.
Do NOT induce vomiting.
Move victim to fresh air and keep at rest in a position comfortable for breathing.
Wash contaminated clothing before reuse.

Eyes: Causes serious eye damage.

Skin: Causes severe skin burns and eye damage.

Inhalation: May cause respiratory irritation.

Ingestion: May cause respiratory irritation.

Spill: Stop leak if safe to do so.
Absorb spillage to prevent material damage.

Storage: Store in a well ventilated place. Keep container tightly closed.
Store locked up.

Disposal: Dispose of contents/container in accordance with local/national regulations.

Hazards Not Classified: Not applicable.

Additional Information: Not applicable.

SECTION III: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS #	Weight - %
Water	7732-18-5	72-77%
Nonylphenol polyethylene glycol ether	187087-87-0	0-5%
Hydrochloric Acid	7647-01-0	20-25%

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

SECTION IV: FIRST AID MEASURES

Eye Contact: Rinse continuously 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.

Note to Physicians:

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, CO₂ 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. Immediate 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 ³ - 5 ppm	7 mg/m ³ - 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 Yellow
Odor	Typical Acid
pH	1.0
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	1.04
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

- Reactivity:** Hazardous polymerization will not occur.
- Chemical Stability:** Stable under normal circumstances.
- Possibility of Hazardous Reaction:** No data available.
- Conditions to Avoid:** 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.
- Incompatible Materials:** Contact with metal oxides, hydroxides, amines carbonates and other alkaline metals. Strong alkaline material, will attack most metal. Avoid contact with glass.
- 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.

SECTION XI: TOXICOLOGICAL INFORMATION**INFORMATION ON TOXICOLOGICAL EFFECTS****Component Acute Toxicity:**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Nonylphenol polyethylene glycol ether	960 - 3,980 mg/kg (Rat)	2,000 - 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

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

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

SYMPTOMS OF EXPOSURE

Eye Contact: Causes serious eye damage.

Skin Contact: Causes severe skin burns and eye damage.

Inhalation: Harmful if inhaled.

Ingestion: Harmful if swallowed.

IMMEDIATE, DELAYED, CHRONIC EFFECTS

Target Organ Effects: Eyes, Respiratory System, Skin.

Carcinogenicity: No components present at 0.1% or greater are listed to be carcinogens by ACGIH, IARC, NTP, or OSHA.

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: III

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 **NFPA:** Health: 3 Flammability: 1 Instability: 1
 HMIS: Health: 3 Flammability: 1 Physical Hazards: 1

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