

SAFETY DATA SHEET

Reliable Concrete Cleaner

Prepared to U.S. OSHA, ANSI, & Canadian WHMIS Standards

I-9044

SECTION 1. PRODUCT IDENTIFICATION

1.1 TRADE NAME (AS LABELED):

SYNONYMS:

CAS#:

1.2 PRODUCT USE:

CHEMICAL SHIPPING NAME/CLASS:

U.N. NUMBER:

1.3 NORTH AMERICA:

MANUFACTURER'S NAME:

ADDRESS:

BUSINESS PHONE:

EMAIL:

WEB SITE INFORMATION:

1.4 EMERGENCY PHONE NUMBERS:

DATE OF CURRENT REVISION:

DATE OF LAST REVISION:

Reliable Concrete Cleaner

N/A

Mixture

Cleaning agent

Corrosive liquids, N.O.S / Class 8 - Corrosive

UN1760

Reliable Products

639 Fitch Street, Oneida, NY 13421

800-932-8742

spraynwipe@aol.com

reliableproductsonline.com

1-800-424-9300 (CHEMTREC – 24 Hrs)

July 2, 2014

January 7, 2005

SECTION 2. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: This product is a thin liquid with an acid odor.

Health Hazards: Corrosive: May cause serious eye damage. May cause skin burns. Fatal if swallowed, inhaled, or in contact with skin.

Flammability Hazards: This product is a non-flammable liquid.

Reactivity Hazards: Corrosive.

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

GHS Hazard Symbol(s)



CANADA (WHMIS) 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)

Hydrofluoric Acid, Sulfuric Acid, Phosphoric Acid, Ethylene Glycol Butyl Ether

2.2 LABEL ELEMENTS

GHS Hazard Classification(s):

Acute toxicity, Oral Category 2

Acute toxicity, Dermal Category 1

Acute toxicity, Inhalation Category 2

Skin Corrosion/Irritation Category 1B

Serious Eye Damage Category 1

Hazard Statement(s):

H300 Fatal if swallowed or in contact with skin

H310 Fatal in contact with skin

H314 Causes severe skin burns and eye damage

H330 Fatal if inhaled

Precautionary Statement(s)

P260 Do not breathe

dusts/fume/gas/mist/vapours/spray.

P262 Do not get in eyes, on skin, or on clothing

P264 Wash thoroughly after handling

Storage Statement(s):

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal Statement(s):

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

Response Statement(s):

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P330 Rinse mouth.

P302+P352 IF ON SKIN: Wash with plenty of water.

SAFETY DATA SHEET

Reliable Concrete Cleaner

Precautionary Statement(s) continued:

P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area
P280 Use protective gloves/protective clothing/eye protection/face protection

Response Statement(s) continued:

P361+P364 Take off immediately all contaminated clothing and wash it 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 or 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: May be Fatal if inhaled. Mist or spray may cause a burning sensation, cough, shortness of breath, or sore throat. Severe exposure can result in hypocalcemia (depletion of calcium in the body).

CONTACT WITH SKIN: Corrosive material may cause redness, skin burns, or blisters. Large burns may cause hypocalcemia (depletion of calcium in the body).

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

INGESTION: May be Fatal if swallowed. Can cause severe mouth, throat and stomach burns. Hypocalcemia (depletion of calcium in body) possible and systematic toxicity is likely to occur unless medical treatment is promptly initiated.

CHRONIC: Prolonged exposure to the skin will cause burns. Prolonged or repeated inhalation or ingestion may affect the kidneys or liver and may cause bone / joint changes in humans.

TARGET ORGANS: **Acute:** Skin, Eyes, Respiratory System, Liver, Kidney

Chronic: Skin, kidneys, liver

SECTION 3. COMPOSITION AND INFORMATION ON INGREDIENTS

COMPOSITION	WT. PERCENTAGE	CAS#	HAZARD CLASSIFICATION
Hydrofluoric Acid	> 1%	7664-39-3	[T] Toxic
Sulfuric Acid	> 1%	7664-93-9	[C] Corrosive
Phosphoric Acid	> 1%	7664-38-2	[C] Corrosive
Ethylene Glycol Butyl Ether	> 1%	111-76-2	[Xn] Harmful
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 eyes will cause irritation with possible burns and tissue damage. Prolonged skin exposure may cause burns. Prolonged or repeated inhalation or ingestion may impact the kidneys or liver and may cause bone / joint changes in humans

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 determined

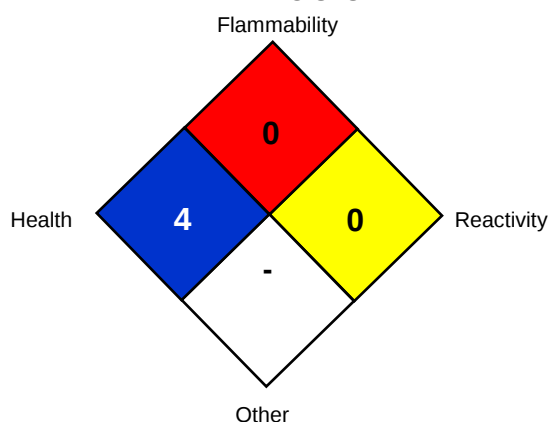
AUTOIGNITION TEMPERATURE: Not determined

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)			4
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:

Cleaning agent

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 EXPOSURE PARAMETERS:

Chemical Name	CAS#	ACGIH TLV	OSHA TWA
Hydrofluoric Acid	7664-39-3	0.5 ppm	3 ppm
Sulfuric Acid	7664-93-9	.02 mg/m ³	1 ppm
Phosphoric Acid	7664-38-2	1 mg/ m ³	1 mg/ m ³
Ethylene Glycol Butyl Ether	111-76-2	20 ppm	50 ppm 240 mg/m ³

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, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards. 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: Clear liquid

ODOR: Acid odor

ODOR THRESHOLD: Not Applicable

pH: 3-4

MELTING/FREEZING POINT: Not Available

BOILING POINT: > 212°F (100°C)

FLASH POINT: Not Available

EVAPORATION RATE (n-BuAc=1): 1.0

FLAMMABILITY (SOLID, GAS): Not Applicable

UPPER/LOWER FLAMMABILITY OR EXLOSION LIMITS: Not Applicable

VAPOR PRESSURE (mm Hg @ 20°C (68°F): < 2

VAPOR DENSITY: 2

RELATIVE DENSITY: Not Available

SPECIFIC GRAVITY: 1.210

SOLUBILITY IN WATER: Complete

WEIGHT PER GALLON: Not Available

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

AUTO-IGNITION TEMPERATURE: Not Applicable

SAFETY DATA SHEET

Reliable Concrete Cleaner

DECOMPOSITION TEMPERATURE: Not Available

VISCOSITY: Not Available

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:

Glass, Concrete, Metals, Alkalis

10.6 HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition products include oxides of nitrogen and oxygen.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

TOXICITY DATA:

Hydrofluoric Acid	7664-39-3	LC50 Inhalation	5,100 ppm/5 min	Rat
Ethylene Glycol Butyl Ether	111-76-2	LD50 Oral	470 mg/kg	Rat
		LD50 Inhalation	450 ppm (4 h)	Rat
		LD50 Dermal	200 mg/kg	Rabbit

SUSPECTED CANCER AGENT: None of the components of this product are listed by agencies tracking the carcinogenic potential of chemical compounds.

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

SENSITIZATION TO THE PRODUCT: This product is not a skin and respiratory sensitizer.

REPRODUCTIVE TOXICITY INFORMATION: No data available.

SECTION 12. ECOLOGICAL INFORMATION

12.1 TOXICITY:

Sulfuric Acid	7664-93-9	LC50	42 mg/l - 96 h	Gambusia affinis (Mosquito fish)
		EC50	29 mg/l - 24 h	Daphnia magna (Water flea)
Ethylene Glycol Butyl Ether	111-76-2	LC50	200 mg/l – 96 h	Other Fish
		EC50	1,815 m/l – 24 h	Daphnia magna

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, IATA, IMO, ADR:

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 liquids, n.o.s. (Contains Hydrofluoric Acid)
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: 153

14.5 ENVIRONMENTAL HAZARDS: (RQ QUANTITY): None

MARINE POLLUTANT: The components of this product are not designated by the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

14.6 SPECIAL PRECAUTION FOR USER: None

INTERNATIONAL AIR TRANSPORT ASSOCIATION SHIPPING INFORMATION (IATA): This product is considered as dangerous goods.

INTERNATIONAL MARITIME ORGANIZATION SHIPPING INFORMATION (IMO): This product is considered as dangerous goods.

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: Components of this product are subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

Hydrofluoric acid – 302, 304, 313

Sulfuric Acid – 302, 304

Ethylene Glycol Butyl Ether - 313

U.S. SARA THRESHOLD PLANNING QUANTITY: Hydrofluoric acid – 100 lbs

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

U.S. CERCLA REPORTABLE QUANTITY (RQ): Hydrofluoric acid – 100 lbs

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.

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): Ingredients within this product are not on the Proposition 65 Lists.

CANADIAN REGULATIONS:

CANADIAN DSL/NDL INVENTORY STATUS: The components of this product are on the DSL Inventory, or are exempted from listing.

OTHER CANADIAN REGULATIONS: Not applicable.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CANADIAN WHMIS CLASSIFICATION and SYMBOLS: This product is a Class E, Corrosive, and a D1, Materials Causing Immediate and Serious Toxic Effects, per WHMIS Controlled Product Regulations.



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)
HMIS: 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. Reliable Products 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, Reliable Products assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed.

END OF SDS SHEET