



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product identifier WashAway Xtreme
Version # 01
Issue date 05-28-2014
CAS # Mixture
Product use Cleaning and Etching of Concrete Substrate
Manufacturer information Protocol Environmental Solutions Inc.
105B 81 Golden Drive
Coquitlam, BC V3K 6R2
Canada
604-464-0660
Canutec 613-966-6666
Supplier Refer to Manufacturer

2. Hazards Identification

Emergency overview DANGER
Contact with most metals may generate hydrogen gas. Causes serious eye irritation. May cause mild skin irritation. Harmful if swallowed. May cause respiratory irritation.

Potential health effects
Routes of exposure Ingestion. Skin contact. Eye contact.
Eyes Can cause severe eye irritation.
Skin May cause skin irritation.
Skin absorption: Not expected to be absorbed through the skin.
Inhalation May cause irritation of respiratory tract.
Ingestion Harmful if swallowed. Irritating. May cause nausea, stomach pain and vomiting.
Target organs Eyes. Skin. Upper respiratory tract. Gastro-intestinal tract.
Chronic effects Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Signs and symptoms Can cause severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause mild skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. May cause respiratory irritation. Symptoms may include coughing, choking and wheezing. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Potential environmental effects None known.

3. Composition / Information on Ingredients

Hazardous components	CAS #	Percent
Urea Hydrochloride	506-89-8	30 - 60
Alcohols, C12-15, Ethoxylated	68131-39-5	1 - 5
Non-hazardous components	CAS #	Percent
WATER	7732-18-5	Balance

4. First Aid Measures

First aid procedures
Eye contact Flush eyes immediately with large amounts of water. Continue rinsing. Get medical attention if irritation develops and persists.
Skin contact Remove and isolate contaminated clothing and shoes. Wash off immediately with soap and plenty of water. Get medical attention if irritation develops and persists.
Inhalation Move to fresh air. Get medical attention, if needed.
Ingestion Rinse mouth thoroughly. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting without advice from poison control center. If ingestion of a large amount does occur, call a poison control center immediately.

General advice If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire Fighting Measures

Flammable properties Not flammable by WHMIS criteria. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

Extinguishing media

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

Protection of firefighters

Specific hazards arising from the chemical Contact with most metals may generate hydrogen gas.

Protective equipment for firefighters Firefighters should wear full protective clothing including self contained breathing apparatus.

Fire fighting equipment/instructions Evacuate the area promptly. Cool containers exposed to heat with water spray and remove container, if no risk is involved. Ventilate the contaminated area. Dike fire water for later disposal; do not spread the material. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Explosion data

Sensitivity to static discharge Not expected to be sensitive to static discharge.

Sensitivity to mechanical impact Not expected to be sensitive to mechanical impact.

Hazardous combustion products Carbon oxides. Nitrogen oxides (NO_x). Chlorine.

6. Accidental Release Measures

Personal precautions Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the MSDS.

Environmental precautions Do not contaminate water.

Methods for containment Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewer, basements or confined areas.

Methods for cleaning up Should not be released into the environment. This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. Clean up in accordance with all applicable regulations. For waste disposal, see section 13 of the MSDS.

Other information Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling Avoid breathing mist or vapor. Avoid contact with skin. Avoid contact with eyes. When using do not eat or drink. Do not use in areas without adequate ventilation. Wash thoroughly after handling. Avoid release to the environment.

Storage Storage temperature: between 0°C and 45°C. Store locked up. Store in a closed container away from incompatible materials. Store in original tightly closed container. Store in a well-ventilated place. Keep out of the reach of children.

8. Exposure Controls / Personal Protection

Occupational exposure limits No exposure limits noted for ingredient(s).

Biological limit values No biological exposure limits noted for the ingredient(s).

Engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Personal protective equipment	
Eye/face protection	Wear tight-fitting goggles or face shield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.
Skin protection	Wear appropriate chemical resistant clothing.
Respiratory protection	A NIOSH/MSHA approved air-purifying respirator with the appropriate chemical cartridges or a positive-pressure, air-supplied respirator may be used to reduce exposure. Advice should be sought from respiratory protection specialists.
Hand protection	Wear appropriate chemical resistant gloves. Advice should be sought from glove suppliers.

9. Physical & Chemical Properties

Appearance	Yellow syrup.
Physical state	Liquid.
Form	Syrup.
Color	Yellow.
Odor	Odorless.
Odor threshold	Not available.
pH	Acidic
Vapor pressure	Not available.
Vapor density	Not available.
Boiling point	> 212 °F (> 100 °C)
Melting point/Freezing point	Not available.
Solubility (water)	Complete
Specific gravity	> 1
Relative density	Not available.
Flash point	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Auto-ignition temperature	Not available.
Evaporation rate	> 1
Percent volatile	< 2 %
Partition coefficient (n-octanol/water)	Not available.
Other data	
Dynamic viscosity	< 1000 cP

10. Chemical Stability & Reactivity Information

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Contact with incompatible materials. Direct sources of heat. Do not use in areas without adequate ventilation.
Incompatible materials	Strong oxidizing agents. Alkalies. Sulfides. Cyanides. Fluoride.
Hazardous decomposition products	None known, refer to hazardous combustion products in Section 5.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Toxicological data

Product	Species	Test Results
WashAway Xtreme (CAS Mixture)		
Acute		
<i>Inhalation</i>		
LC50	Rat	67.2467 mg/l, 4 Hours estimated
<i>Oral</i>		
LD50	Rat	2033.5254 mg/kg estimated
Components	Species	Test Results
Alcohols, C12-15, Ethoxylated (CAS 68131-39-5)		
Acute		
<i>Dermal</i>		
LD50	Rat	> 2000 mg/kg
<i>Inhalation</i>		
LC50	Rat	> 1.6 mg/l, 4 Hours Mist
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg
Urea Hydrochloride (CAS 506-89-8)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	No data in literature
<i>Inhalation</i>		
LC50	Rat	No data in literature
<i>Oral</i>		
LD50	Rat	1120 mg/kg
WATER (CAS 7732-18-5)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	Not available.
<i>Inhalation</i>		
LC50	Rat	Not available.
<i>Oral</i>		
LD50	Rat	> 89840 mg/kg
Acute effects	Harmful if swallowed. Causes serious eye irritation. May cause mild skin irritation. May cause respiratory irritation.	
Sensitization	Not expected to be a skin or respiratory sensitizer.	
Chronic effects	Not expected to be hazardous by WHMIS criteria. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.	
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
Skin corrosion/irritation	May be irritating to the skin.	
Serious eye damage/irritation	Causes severe eye irritation.	
Mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Reproductive effects	This product is not expected to cause reproductive or developmental effects.	
Teratogenicity	This product is not expected to be a teratogen.	
Symptoms and target organs	Causes severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause mild skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. May cause respiratory irritation. Symptoms may include coughing, choking and wheezing. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.	
Synergistic materials	Not available.	

12. Ecological Information

Ecotoxicological data

Product		Species	Test Results
WashAway Xtreme (CAS Mixture)			
Aquatic			
<i>Acute</i>			
Crustacea	EC50	Daphnia	5.8841 mg/l, 48 hours estimated
Fish	LC50	Fish	54.6379 mg/l, 96 hours estimated

Components		Species	Test Results
Alcohols, C12-15, Ethoxylated (CAS 68131-39-5)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Green algae (Selenastrum capricornutum)	0.75 mg/l, 72 hours
Crustacea	EC50	Water flea (Daphnia magna)	0.14 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	1.3 - 1.8 mg/l, 96 hours

Ecotoxicity	No data is available on the product itself.
Environmental effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Aquatic toxicity	Not available.
Persistence and degradability	Not available.
Mobility in environmental media	This product is miscible in water.

13. Disposal Considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport Information

TDG

Not regulated as dangerous goods.

IATA

UN number	UN3082
UN proper shipping name	Environmentally hazardous substances, liquid, n.o.s.
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Label(s)	9
Packing group	III
Environmental hazards	Yes
Special precautions for user	Read safety instructions, MSDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Forbidden.
Cargo aircraft only	Forbidden.

IMDG

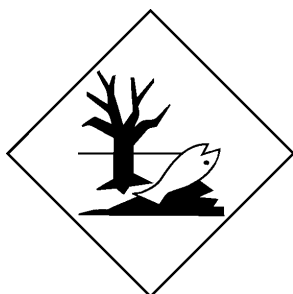
UN number	UN3082
UN proper shipping name	Environmentally hazardous substances, liquid, n.o.s.
Transport hazard class(es)	
Class	9

Subsidiary risk	-
Label(s)	9
Packing group	III
Environmental hazards	
Marine pollutant	Yes
EmS	Not available.
Special precautions for user	Read safety instructions, MSDS and emergency procedures before handling.

IATA; IMDG



Marine pollutant



General information

IMDG Regulated Marine Pollutant.

15. Regulatory Information

Canadian regulations

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS status

Controlled

WHMIS classification

D2B - Other Toxic Effects-TOXIC

WHMIS labeling



International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other Information

HMIS® ratings

Health: 1
Flammability: 0
Physical hazard: 0

NFPA ratings

Health: 1
Flammability: 0
Instability: 0

Disclaimer

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Disclaimer

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Legend to abbreviations and acronyms used in the SDS

ACGIH: American Conference of Governmental Industrial Hygienists
CAS: Chemical Abstract Services
CEPA: Canadian Environmental Protection Act
CPR: Controlled Products Regulation
CSA: Canadian Standards Association
DOT: Department of Transportation
DSL: Domestic Substance List
EPA: Environmental Protection Agency
HMIS: Hazardous Materials Identification System
HPA: Hazardous Protection Act
HSDB® - Hazardous Substances Data Bank
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
IMDG: International Maritime Dangerous Goods
IUCRID: International Uniform Chemical Information Database
LC: Lethal Concentration
LD: Lethal Dose
MSDS: Material Safety Data Sheet
NFPA: National Fire Protection Association
NIOSH: National Institute of Occupational Safety and Health
NOEC: No observable effect concentration
NTP: National Toxicology Program
OECD: Organisation for Economic Co operation and Development
OSHA: Occupational Safety and Health Administration
PPE: Personal Protective Equipment
RCRA: Resource Conservation and Recovery Act
RQ: Reportable Quantity
RTECS: Registry of Toxic Effects of Chemical Substances
SCBA: self-contained breathing apparatus
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TWA: Time Weighted Average
WEL: Workplace Exposure Limit
WHMIS: Workplace Hazardous Materials Identification System