

SAFETY DATA SHEET

1. Product and Company Identification

Product Name	SCALE-AWAY DELIMER
Product Number	170
Product Type	Mixture
Product Use	Acid for removing mineral scale
Manufacturer/Supplier	National Purity US LL 6840 Shingle Creek Parkway, Suite #23 Brooklyn Center, MN 55430
Company Contact	612-672-0022
Emergency Telephone Number	1-800-255-3924
Email	customerservice@nationalpurity.com

2. Hazards Identification

GHS Classification in accordance with 29 CFR 1910 OSHA HCS

Corrosive to metals, (Category 1) H290
Acute toxicity, Oral (Category 4) H302,
Skin corrosion/irritation, (Category 1) H314
Eye damage/irritation, (Category 1) H318
Acute toxicity, inhalation, (category 3) H331
Hazardous to the Aquatic Environment-Long term hazard (Category3) H412

GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard Statements

H290 May be corrosive to metals.
H302 Harmful if swallowed. May cause corrosive damage to mouth, throat, or stomach.
H314 Causes severe skin burns and eye damage. Corrosive to the eyes leading to blindness.
H318 Causes serious eye damage.
H331 Toxic if inhaled.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention

P390 Avoid spillage to prevent material-damage.
P234 Keep only in original packaging.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P264 Wash hands thoroughly after handling.

P270 Do not eat, drink, or smoke when using this product.
 P271 Use outdoors or in a well ventilated area.
 P260 Do not breathe fumes, mists, vapors, or spray.
 P273 Avoid release to the environment.

Response

P303+P361+P353+P363 IF ON SKIN (or hair), immediately take off all contaminated clothing and rinse skin with copious amounts of water. Shower if facilities are readily available. Wash all contaminated clothing before reuse.
 P310 Immediately call a POISON CENTER/doctor and seek medical attention.
 P301+P312+P330 IF SWALLOWED, rinse mouth with water. Drink one or two glasses of milk or water to dilute acid. DO NOT INDUCE VOMITING. Call a POISON CENTER/doctor if feeling unwell.
 P305+P351+P337+P310 IF IN EYES, rinse cautiously for several minutes. Remove contact lenses if present. Continue rinsing. Immediately call a POISON Center/doctor and get medical attention.
 P304+P340+P311 IF INHALED: remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if feeling unwell.

Storage/Disposal

P403+P233 Store in a well ventilated place. Keep container tightly closed.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/federal regulations.

3. Composition/Information on Ingredients

The following are the criteria for listing in this section: Ingredients that meet the criteria for carcinogenic, toxic to reproduction, or specific target organ toxicity and components otherwise considered hazardous according to OSHA which exceed the cut off limits for SDS specified by the criteria for mixtures are listed. Nonhazardous components are not listed. This is not a composition disclosure. Exact percentages are considered proprietary and a trade secret.

Hazardous Components	CAS#	Classification	%
Phosphoric acid	7664-38-2	H290,H302, H314, H318, H331, H335, H412	20-25%
Hydroxyacetic acid	79-14-1	H302, H314, H332	5-10%
Hydrochloric acid	7647-01-0	H290, H335, H314	0-2%
Alcohols, C8-C10, ethoxylated, propoxylated	68603-25-8	H315, H319,	0-2%

4. First Aid Measures

Description of First Aid Procedures

General Advice Consult a physician. Show this SDS to the doctor.

In Case of Eye Contact Flush with cool running water for 15 minutes. Remove contact lenses if present. Get immediate medical attention.

In Case of Skin Contact Wash with soap and water and rinse thoroughly with cool running water. Remove contaminated clothing. Get immediate medical attention.

If Ingested Drink large amounts of water or milk to dilute acid. **Do not induce vomiting.** Obtain immediate medical attention. Never give anything by mouth to an unconscious person.

If Inhaled Move person to fresh air. Consult a physician if having difficulty breathing or feeling unwell.

Notes to Physician
General advice Symptoms may be delayed. Seek medical attention if feeling unwell. Show the SDS to the physician in attendance.

5. Fire-fighting Measures

Flammable properties	Not flammable
Extinguishing media	Use methods appropriate to the primary source of the fire,
Protection of firefighters	Firefighters should wear protective clothing including self-contained breathing apparatus.
Hazardous combustion products	May include and not limited to oxides of carbon, and phosphorus.
Unusual Fire, Explosion hazards	Containers may melt or rupture from heat of fire. May form combustible mixtures with air when heated.

6. Accidental Release Measures

Personal precautions	Keep unnecessary personal away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled containers unless wearing protective Clothing.
Methods for containment	Stop leak if you can do so without risk. Prevent entry into waterways, sewers.
Methods for cleaning up	Before attempting clean up, refer to hazard data given above. Small spills, neutralize with alkali such as soda ash, sodium bicarbonate or lime. Absorb with inert material and place in a suitable container for disposal. Rinse area with water. Large spills, dike area to prevent from spreading. Neutralize with alkaline material such as soda ash or lime. Absorb with non-reactive absorbent and place in suitable, covered, and labeled container. Rinse area with water. Never return spill to original container.
Environmental precautions	Avoid spills. Keep out of waterways.

7. Handling and Storage

Precautions for Safe Handling	Use good industrial hygiene practices when handling this material. Avoid contact with eyes, skin and clothing. Wash contaminated clothing before reuse.
Conditions for Safe Storage	Keep container closed when not in use. Keep out of reach of children. Keep away from heat or sources of ignition. Store locked up.

8. Exposure Controls and Personal Protection

Exposure Limits	CAS#	OSHA PEL	ACGIH TLV
Ingredients			
Phosphoric acid	7664-38-2	Not available	Not available
Hydroxyacetic acid	79-14-1	Not available	Not available
Hydrochloric acid	7647-01-0	5ppm	2ppm
Alcohols, C8-C10, ethoxylated propoxylated	68603-25-8	Not available	Not available
Engineering controls	Local exhaust ventilation is recommended.		
Personal protective equipment			
Eye/Face protection	Wear chemical safety goggles or full-face shield if splash conditions exist. Have suitable eye wash water available.		
Hand protection	Wear impermeable gloves to prevent contact with skin.		

Skin and body	Wear impervious protective clothing including boots, gloves, and face shield where splashing is possible. Have quick drench/shower facilities in work area.
Respiratory protection	Use a NIOSH approved respirator when exposure guidelines are exceeded.
General hygiene considerations	Handle in accordance with good industrial hygiene practices. Do not eat or drink when using product. Wash hands well before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance/form	Clear liquid
Color	Green
Odor	Pungent odor
Odor threshold	Not established
pH	< 1 (concentrate)
Melting/freezing point	Not established
Initial Boiling point	>212° F (100° C.)
Flash point	Not established.
Evaporation rate	Not established
Flammability	Not flammable
Upper/lower flammability or	Not established
Explosive limits	Not established
Vapor pressure	Not established
Vapor density	Not established
Specific gravity/density	1.18-1.22
Solubility in water	Complete
VOC	< 1%
% Volatile	Not established

Other Safety Information

10. Stability and Reactivity

Reactivity	Not reactive under normal use or storage.
Chemical Stability	Stable under normal use and storage.
Hazardous reactions	Keep separate from organic materials. Avoid contact with alkaline materials and metals.
Conditions to avoid	Do not mix with other chemicals.
Incompatible materials	Strong alkalis, strong oxidizing agents, metals and their anhydrides, nitrates and amines.
Hazardous decomposition products	May include but not limited to oxides of carbon, and phosphorous. Toxic phosphorous oxide fumes are possible at flame temperatures.
Hazardous polymerization	Will not occur.

11. Toxicological Information

Ingredients	LC50
Phosphoric acid	1.689 mg/m ³ P ₂ O ₅
Hydroxyacetic acid	7.7 mg/l
Hydrochloric acid	>20 mg/l
Alcohols, C8-C10, ethoxylated propoxylated	Not available
Ingredients	LD50
Phosphoric acid	1,530 mg/kg (Oral-rat), > 1,260-3,160 mg/kg (Dermal-rabbit)

Hydroxyacetic acid	4,240 mg/kg (Oral-rat), >5,000mg/kg (Dermal-rabbit)
Hydrochloric acid	900 mg/kg (Oral-rat), >2,000mg/kg (Dermal-rabbit)
Alcohols, C8-C10, ethoxylated propoxylated	Not available

Effects of Acute Exposure

Eye	Causes severe eye damage. Corrosive to eyes leading to blindness.
Skin	Causes severe skin burns.
Ingestion	Toxic if swallowed. May cause corrosive damage to mouth, throat and stomach.
Inhalation	Vapors may cause central nervous system depression.

Sensitization	No data available.
Chronic effects of short and long term exposure	Prolonged exposure to skin may cause drying, defatting and irritation and aggravate existing skin problems.
Carcinogenicity	Does not contain ingredients considered carcinogenic by NTP, IARC, or OSHA.
Mutagenicity	No data available.
Reproductive effects	No data available.
Teratogenicity	No data available.

12. Ecological Information

Eco-toxicity	Ecological effects for this product have not been analyzed. However, if spilled this product's ingredients are toxic to aquatic life and may have long lasting effects. EPA Ecological Toxicity rating: High.
Phosphoric acid	
Environmental effects	No data available.
Aquatic toxicity	
Phosphoric acid	Dangerous to aquatic plants at high concentrations.
Persistence and Degradability	No data available.
Bioaccumulation/accumulation	
Phosphoric acid	Inorganic phosphates have the potential to increase the growth of algae, whose eventual death will reduce the available oxygen for aquatic life.
Partition coefficient	No data available.
Mobility in environmental media	No data available.
Chemical fate information	No data available.
Other adverse effects	No data available.

13. Disposal Considerations

Waste codes	Not Available
Disposal instructions	Dispose in accordance with local, state, and federal regulations
Wastes from residues/unused product	Containerize. Rinse area with water. Keep out of storm sewer/waterways.
Contaminated packaging	Dispose of container in accordance with federal, state, and local requirements.

14. Transport Information

Basic shipping requirements:	
Proper shipping name:	Corrosive liquid, acidic, inorganic n.o.s. (contains Phosphoric acid, Hydroxyacetic acid, Hydrochloric acid)
Hazard class	8
UN number	3264

Packing group
Special provisions
Packaging exceptions

III
 49CFR173.154 Limited quantities. Inner packaging not over 5 liters exempt for ground shipments.

15. Regulatory Information

U.S federal regulations	This product has been classified in accordance with the Occupational Safety and Health Administration hazard criteria and the SDS contains all of the information required by OSHA. HCS 2012
TSCA	All ingredients are listed on the Toxic Substances Control Act
CERCLA Super Fund	Product contains a material with a Reportable Quantity (RQ)
40 CFR 117.302	Phosphoric acid RQ = 5000 Lbs.
SARA Title III Section 311&312	Immediate (Acute) Health Hazard Phosphoric acid
SARA Title III Section 313	Ingredients subject to the reporting requirements of section 313 of Title III SARA: Product may contain sulfuric acid as an impurity, <1%, which is subject to reporting.
States Right to Know	Reportable chemicals: Phosphoric acid (CAS#7664-38-2) Sulfuric acid (CAS#7664-93-9)
California Proposition 65	This product does not contain intentional ingredients known to the state of California to cause cancer, birth defects or reproductive effects. This product may contain sulfuric acid,< 1.0%, (CAS#7664-93-90 which is known to the State of California to cause cancer. Product may also contain trace amounts, less than 1ppm, of ethylene oxide (CAS#75-21-8) and propylene oxide (CAS#75-56-9) also listed as carcinogenic or reproductive toxins by the State of California.

Inventory Status

Countries	Inventory Name	On Inventory (Yes/No)*
U.S.	CIL	Yes
Canada	DSL	Yes

• A “Yes” indicates that all of the components of this product comply with the inventory requirements administered by the governing country(s) listed.

16. Other Information

HMIS RATING

HMIS Legend

Severe	4	Health	3
Serious	3	Flammability	0
Moderate	2	Reactivity	0
Slight	1	Personal Protection	B
Minimal	0		

Disclaimer

To the best of our knowledge, the information included herein is accurate. However, neither the above named supplier nor any of its subsidiaries assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any material is the responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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June 2, 2022

Supersedes date

Previous issues

Reason for update

New Product