Safety Data Sheet (SDS)

Section 1 - Chemical Product and Company Information

Product Name: ShoreWalls

Product Code: A762

Manufacturer:

Shore Corporation
2917 Spruce Way
Pittsburgh, PA 15201

Telephone 412-471-3330
Toll free 800-860-4978
Fax 412-471-3260
www.shorecorporation.com

In case of transportation or chemical emergency contact:

ChemTel, Inc
1-800-255-3924 (24 hours)

Product Use: Masonry and equipment cleaner
Not recommended for:

Section 2 - Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard: 29 CFR Part 1910.1200

GHS Ratings:

Inhalation Toxicity	Acute Tox. 3	Gases>500+<=2500ppm, Vapors>2+<=10mg/l, Dusts&mists>0.5+<=1mg/l
Skin corrosive	1A	Destruction of dermal tissue: Exposure < 3 min. Observation < 1 hour, visible necrosis in at least one animal
Eye corrosive	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5

GHS Hazards

H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H331	Toxic if inhaled

GHS Precautions

P260	Do not breathe dust/fume/gas/mist/vapours/spray
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P264	Wash hands and equipment thoroughly after handling
P271	Use only outdoors or in a well-ventilated area
P280	Wear protective gloves/protective clothing/eye protection/face protection
P310	Immediately call a POISON CENTER or doctor/physician
P311	Call a POISON CENTER or doctor/physician
P321	Specific treatment (see Section 4 on this label)
P363	Wash contaminated clothing before reuse
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P405	Store locked up
P403+P233	Store in a well ventilated place. Keep container tightly closed
P501	Dispose of contents/container in accordance with local/ regional/ national/, regulations.

Signal Word: Danger

Preexisting skin, eye, and respiratory disorders may be aggravated by exposure to this product.

Section 3 - Composition

Chemical Name	CAS number	Weight Concentration %
Water	7732-18-5	40.00% - 50.00%
Sulfuric acid	7664-93-9	10.00% - 20.00%
phosphoric acid	7664-38-2	10.00% - 20.00%
Hydrochloric acid	7647-01-0	5.00% - 10.00%
Alcohols, C9-11, ethoxylated	68439-46-3	1.00% - 5.00%
Sulfamic acid	5329-14-6	1.00% - 5.00%
Oxalic acid dihydrate	6153-56-6	1.00% - 5.00%

Section 4 - First Aid Measures

INHALATION - Take affected persons out into the fresh air. Supply fresh air; consult doctor in case of complaints.
Provide oxygen treatment if affected person has difficulty breathing.
In case of irregular breathing or respiratory arrest provide artificial respiration.
In case of unconsciousness place patient stably in side position for transportation.

EYE CONTACT - In case of eye contact, flush the eyes with water for fifteen (15) minutes. If contact lenses are worn, quickly remove them, then flush the eyes with water. Have a physician examine the eyes.

SKIN CONTACT - Immediately remove any clothing soiled by the product.
Immediately wash with water and soap and rinse thoroughly.
Rinse until skin no longer feels slippery.
If skin irritation continues, consult a doctor.

INGESTION - If material is ingested, rinse out mouth with water and seek immediate medical attention. Do not induce vomiting but if vomiting occurs spontaneously, keep the head below the hips to prevent aspiration of liquid into the lungs. If victim is conscious drink large quantities of water to dilute stomach contents. Administering over-the-counter stomach antacids may be indicated.

Notes to Physician: If swallowed, gastric irrigation with added, activated carbon.

If swallowed or in case of vomiting, danger of entering the lungs.
If necessary oxygen respiration treatment.
Administering over-the-counter stomach antacids may be indicated.

Section 5 - Fire Fighting Measures

Flash Point: 152 C (306 F)
LEL: 9.00 UEL: 9.00

EXTINGUISHING MEDIA: This product is not inherently flammable. Use media appropriate for surrounding fire.
UNUSUAL FIRE OR EXPLOSION HAZARDS: The product vapor is heavier than air and may travel a considerable distance. Surrounding fire may vaporize acidic materials.

HAZARDOUS COMBUSTION PRODUCTS: See section 10 for a list of hazardous decomposition products for this mixture.

FIRE FIGHTING: If evacuation of personnel is necessary, evacuate to an upwind area. Decontaminate personnel and equipment with a water wash-down after fire and smoke exposure.

FIRE FIGHTING EQUIPMENT: Firemen and emergency responders: wear full turnout gear or Level A equipment, including positive-pressure, self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures

SPILL AND LEAK PROCEDURES: Spill supervisor - Ensure cleanup personnel wear all appropriate Personal Protective Equipment (PPE), including respiratory protection. Keep nonessential personnel away from the contaminated area. Spilled product may be very slippery!

SMALL SPILLS: Ventilate the contaminated area. Mix the appropriate sorbent into the spilled material. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Collect the saturated sorbent and transfer it into a covered container. Steel containers are acceptable for all wastes except wastes which contain acid. Use suitable plastic containers for acid-bearing wastes.

Dispose of the waste in compliance with all Federal, state, regional, and local regulations.

LARGE SPILLS: Prevent this material from entering sewers and watercourses by diking or impounding the spilled material. Advise authorities if the product has entered or may enter, sewers, watercourses, or extensive land areas.

Ventilate the contaminated area. Mix the appropriate sorbent into the spilled material.Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Collect the saturated sorbent and transfer it into a covered container. Steel containers are acceptable for all wastes except wastes which contain acid. Use suitable plastic containers for acid-bearing wastes.

Label the waste container. Dispose of the waste in compliance with all Federal, state, regional, and local regulations.

Section 7 - Handling and Storage

HANDLING PRECAUTIONS: Wear all appropriate Personal Protective Equipment (PPE). Wear respiratory protection or ensure adequate ventilation at all times as vapors can accumulate in confined or poorly ventilated areas. Avoid aerosolizing product. Use the product in a manner which minimizes splashes and/or the creation of dust. Keep containers closed when not in use. Store at room temperatures, i.e., 40 to 95 F (4 to 35 C).

Do not allow product to come in contact with aluminum.

STORAGE: Requirements to be met by storerooms and receptacles:
Store in a cool location.
Provide ventilation for receptacles.

· **Information about storage in one common storage facility:**
Store away from foodstuffs.
Do not store together with caustics (alkalis).
· **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.
Keep container tightly sealed.

REGULATORY REQUIREMENTS: No data found.

Section 8 - Exposure Controls / Personal Protection

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Water 7732-18-5	Not Established	Not Established	Not Established
Sulfuric acid 7664-93-9	Not Established	TWA 0.2 mg/m3 Form of exposure : Thoracic fraction Pulmonary function, Classification refers to sulfuric acid contained in strong inorganic acid mists, Suspected human carcinogen	Not Established
phosphoric acid 7664-38-2	PEL 1 mg/m3 IDLH 1000 mg/m3	TLV 1 mg/m3 STEL 3 /mg/m3	NIOSH REL 1 mg/m3 STEL 3 mg.m3
Hydrochloric acid 7647-01-0	Table Z-1 PEL 5 ppm 7 mg/m3	ceiling 2 ppm	Not Established
Alcohols, C9-11, ethoxylated 68439-46-3	Not Established	Not Established	Not Established
Sulfamic acid 5329-14-6	15 mg/m3 TWA (total dust) 5 mg/m3 TWA (respirable fraction)	Not Established	Not Established
Oxalic acid dihydrate 6153-56-6	PEL TWA 1mg/m3	TWA 1 mg/m3 STEL 2 mg.m3	Not Established

ENGINEERING:

VENTILATION: Use only with adequate ventilation, i.e., ventilation in compliance with occupational exposure limits. Use mechanical ventilation to reduce buildup of vapors in enclosed areas.

ADMINISTRATIVE CONTROLS: Read SDS and follow recommended procedures.

PROTECTIVE EQUIPMENT: Wear splash goggles. If extra protection is required, wear a face shield over the splash goggles. Face shields are effective only if worn in addition to splash goggles.

Wear a chemical-resistant, butyl-rubber apron and other protective clothing, as deemed appropriate, to avoid skin contact with material.

Wear chemical-resistant gloves (butyl rubber or neoprene). Protective gloves should be inspected frequently and discarded when they exhibit cuts, tears, pinholes, or signs of excessive wear.

Respiratory protection may not be needed if the local exhaust is sufficient to maintain levels of hazardous ingredients below occupational exposure limits. If needed, use a NIOSH/MSHA approved respirator equipped with a full facepiece, organic vapor cartridges, and high-efficiency, particulate air (HEPA) filters. Do not use respirators beyond their capabilities. FOR EMERGENCIES AND UNKNOWN CONCENTRATIONS, use supplied-air respiratory protection or a positive-pressure, self-contained breathing apparatus (SCBA).

CONTAMINATED EQUIPMENT: Dispose of the waste in compliance with all Federal, state, regional, and local regulations.

Section 9 - Physical and Chemical Properties

This mixture typically exhibits the following properties under normal circumstances:

Appearance: Pale amber liquid	**Odor:** Pungent acidi
Vapor Pressure: 32.2 mmHg	**Vapor Density:** 1.1
pH: 1	**Specific Gravity:** 1.25
Melting point: No Data	**Freezing point:** No Data
Solubility: No Data	**Boiling range:** 100℃
Flash point: None	**Evaporation rate:** No Data
Flammability: No Data	**Explosive Limits:** 9% - 9%
Partition coefficient (n-octanol/water): No Data	**Autoignition temperature:** No Data
Decomposition temperature: No Data	**Viscosity:** No Data
Grams VOC less water: No Data	**Odor threshold:** No Data

Section 10 - Stability and Reactivity

Stability: Hazardous polymerization will not occur.
STABLE

Components of this mixture are incompatible with the following materials: Acids and soft metals like aluminum. .

This mixture is likely to exhibit the following combustion products:
Oxides of carbon, sulfur, and nitrogen

Section 11 - Toxicological Information

Mixture Toxicity

Oral Toxicity LD50: 2,802mg/kg

Inhalation Toxicity LC50: 3mg/L

Component Toxicity

7664-38-2	phosphoric acid Oral LD50: 1,530 mg/kg (rat) Dermal LD50: 2,740 mg/kg (rabbit)
7647-01-0	Hydrochloric acid Oral LD50: 700 mg/kg (rat) Inhalation LC50: 3,124 ppm (rat)
68439-46-3	Alcohols, C9-11, ethoxylated Oral LD50: 2,001 mg/kg (rat) Dermal LD50: 3,300 mg/kg (rat)
5329-14-6	Sulfamic acid Oral LD50: 1,312 mg/kg (mouse) Dermal LD50: 500 mg (rabbit)

Inhalation Skin Contact Eye Contact

Exposure to this material may affect the following organs:

Blood Eyes Liver Skin Respiratory System

Effects of Overexposure

Carcinogenicity: The following chemicals comprise 0.1% or more of this mixture and are listed and/or classified as carcinogens or potential carcinogens by NTP, IARC, OSHA (mandatory listing), or ACGIH (optional listing).

CAS Number	Description	% Weight	Carcinogen Rating

7664-93-9	Sulfuric acid	10 to	Note: IARC Classification: Group 1 mists from strong inorganic acids IARC and NTP classified "occupational exposure to strong inorganic acid mists containing sulfuric acid" as a known human carcinogen. ACGIH has also classified “sulfuric acid as contained in strong inorganic acid mists” as a suspected human carcinogen. There is still a debate on the studies reviewed by these agencies. We disagree with IARC’s conclusion, in that more recent studies have failed to find association between “occupational exposure to strong inorganic acid mist containing sulfuric acid.” and laryngeal or lung cancer. In fact, in 2012 IARC revised their classification dropping the “containing sulfuric acid” wording. Lifetime animal studies in hamsters, rats, and guinea pigs were conducted by the EPA and NIEHS and were all negative. However, they were not formally published by the agencies and not considered by IARC or NTP.

Section 12 - Ecological Information

Ecological information: No data found.

Component Ecotoxicity

Sulfuric acid	EC50 - 48 h : > 100 mg/l - Daphnia magna (Water flea) static test Method: OECD Test Guideline 202 Fresh water Neutralized product Not harmful to aquatic invertebrates. (EC50 > 100 mg/L) Unpublished reports EC50 - 24 h : 29 mg/l - Daphnia magna (Water flea) Method: ISO 6341 Non neutralized product Harmful to aquatic invertebrates. Published data NOEC : 0.13 mg/l - Algae field study pH 5.6 Non neutralized product Published data ErC50 - 72 h : > 100 mg/l - Desmodesmus subspicatus (green algae) Growth inhibition Method: OECD Test Guideline 201Neutralized product Unpublished reports NOEC: 0.13 mg/l - 10 Months - Salvelinus fontinalis (brown trout) flow-through test pH 5.6 Fresh water Non neutralized product Published data
Hydrochloric acid	KC50 - Gambusia affinis (Mosquito fish) - 282 mg/l - 96 hr

Alcohols, C9-11, ethoxylated	Toxicity to fish - Components Alcohols, C9-11, ethoxylated LC50 (96 h) : 1 - 10 mg/l Species : Fathead minnow (Pimephales promelas). Toxicity to daphnia - Components Alcohols, C9-11, ethoxylated EC50 (48 h) : 1 - 10 mg/l Species : Daphnia Toxicity to algae - Components Alcohols, C9-11, ethoxylated ErC50 (96 h) : 1 - 10 mg/l Species : Algae.
Sulfamic acid	LC50 (Pimephales promelas) 96 houra = 58.8 - 84 mg/L, fresh water
Oxalic acid dihydrate	LC50 fishes 1c34.1 mg/l (96 h; Pimephales promelas; ANHYDROUS FORM) LC50 other aquatic organisms 1 100 - 1000 mg/l (96 h; ANHYDROUS FORM) EC50 Daphnia 1 137 mg/l (48 h; Daphnia magna; ANHYDROUS FORM) LC50 fish 2 160 mg/l (48 h; Leuciscus idus; ANHYDROUS FORM) TLM fish 1 4000 mg/l (24 h; Lepomis macrochirus; ANHYDROUS FORM) Threshold limit other aquatic organisms 1 100 - 1000,96 h; ANHYDROUS FORM Threshold limit algae 1 790 mg/l (168 h; Scenedesmus quadricauda; ANHYDROUS FORM) Threshold limit algae 2 80 mg/l (192 h; Microcystis aeruginosa; ANHYDROUS FORM)

Section 13 - Disposal Considerations

As the US EPA, state, regional, and other regulatory agencies may have jurisdiction over the disposal of your facility's hazardous waste, it is incumbent upon you, the hazardous waste generator, to learn of and satisfy all the requirements which affect you. Dispose of the hazardous waste at a properly licensed and permitted disposal site or facility. Ensure conformity to all applicable hazardous waste disposal regulations.

The US EPA Hazardous Waste Numbers which follow are applicable to this unadulterated product if the product enters the "waste stream." Refer to Title 40 of the Code of Federal Regulations, Part 261 (40 CFR 261). This part of the Code identifies solid wastes which are subject to regulation under various sections of the Code and which are subject to the notification requirements of Section 3010 of the Resource Conservation and Recovery Act (RCRA).

Section 14 - Transport Information

This material is classified for transport as follows:

Agency	Proper Shipping Name	UN Number	Packing Group	Hazard Class
US DOT	Corrosive liquid, acidic, inorganic, n.o.s. (hydrochloric acid, sulfuric acid)	UN3264	II	8

Section 15 - Regulatory Information

Additional regulatory listings, where applicable.

The following chemicals are on the NJ RTK list:
- 5329-14-6 Sulfamic acid 1 to 5 %
- 7647-01-0 Hydrochloric acid 5 to 10 %

The following chemicals are on the NY RTK list
- 7647-01-0 Hydrochloric acid 5 to 10 %
- 7664-93-9 Sulfuric acid 10 to 20 %

The following chemicals are on the PA RTK list
- 6153-56-6 Oxalic acid dihydrate 1 to 5 %
- 7647-01-0 Hydrochloric acid 5 to 10 %
- 7664-93-9 Sulfuric acid 10 to 20 %

Country	Regulation	All Components Listed
Canada	Canadian Domestic Substances List	Yes
US	Toxic Substances Control Act	Yes

EU Risk Phrases

Safety Phrase

Toxic Substances Control Act (TSCA): All chemicals except those listed below appear in the Toxic Substances Control Act Chemical Substance Inventory:

- None

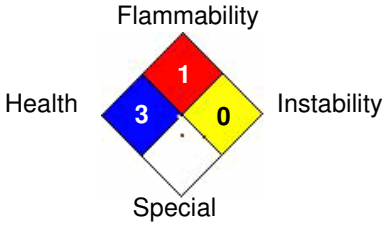
Section 16 - Other Information

Hazardous Material Information System (HMIS)

HEALTH	3
FLAMMABILITY	1
PHYSICAL HAZARD	1
PERSONAL PROTECTION	

HMIS & NFPA Hazard Rating Legend
*** = Chronic Health Hazard**
0 = INSIGNIFICANT
1 = SLIGHT
2 = MODERATE
3 = HIGH
4 = SEVERE

National Fire Protection Association (NFPA)



DISCLAIMER AND NON-WARRANTY: This Safety Data Sheet was prepared by Shore Corporation and is correct to the best of our knowledge, information and belief at the date of its publication. The information came from raw material suppliers, regulatory databases, and/or third parties with expertise in this area. This information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release. No warranties of any kind, either expressed or implied, including warranties of the accuracy of the information presented and the suitability of a product for a particular purpose.

Reviewer Revision

Date Prepared: 6/22/2015