

Safety Data Sheet (SDS)

Section 1 - Chemical Product and Company Information

Product Name: ShoreBest 2380 Copper Stain Remover Product Code: A770

Manufactured by:

Shore Corporation
2917 Spruce Way
Pittsburgh, PA 15201

In case of transportation or
chemical emergency contact:

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

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

Product Use: Masonry Cleaner
Not recommended for:

Section 2 - Hazards

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

GHS Ratings:

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 \geq 3, Iritis > 1.5

GHS Hazards

H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage

GHS Precautions

P260	Do not breathe dust/fume/gas/mist/vapours/spray
P264	Wash hands thoroughly after handling
P280	Wear protective gloves/protective clothing/eye protection/face protection
P310	Immediately 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

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 %
Ammonium nitrate	6484-52-2	10.00% - 20.00%
Monoethanolamine	141-43-5	5.00% - 10.00%
Ammonium hydroxide solution	1336-21-6	5.00% - 10.00%

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.

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.

Section 5 - Fire Fighting Measures

Flash Point: 95 C (203 F)

LEL: 3.00

UEL: 27.00

EXTINGUISHING MEDIA: This product is not inherently flammable. Use media appropriate for surrounding fire.

UNUSUAL FIRE OR EXPLOSION HAZARDS: Product contains a strong oxidizer. If heated enough to evaporate the water, and explosive mixture could remain. Keep containers cool with water. Vapors are heavier than air and may travel

a great distance to a source of ignition and flashback.

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 acids.

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
Ammonium nitrate 6484-52-2	Not Established	Not Established	Not Established
Monoethanolamine 141-43-5	OSHA Z-1 TWA 3 ppm 6 mg/m ³ OSHA P0 STEL 6 ppm 15 mg/m ³ TWA 3 ppm 8 mg/m ³	TWA 3 ppm STEL 6 ppm	NIOSH REL TWA 3 ppm 8 mg/m ³ ST 6 ppm 15 mg/m ³
Ammonium hydroxide solution 1336-21-6	PEL (TWA) (mg/m ³) 35 mg/m ³ (TWA) (ppm) 50 ppm	TWA (mg/m ³) 17 mg/m ³ TWA (ppm) 25 ppm STEL (mg/m ³) 24 mg/m ³ STEL (ppm) 35 ppm	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 still be needed even 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 (ammonia, ethanolamine), 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: Hazy viscous liquid	Odor: Strong ammonia
Vapor Pressure: 25.3 mmHg	Odor threshold: No Data
Vapor Density: 0.7	pH: 13
Specific Gravity: 1.06	Melting point: No Data
Freezing point: No Data	Solubility: No Data
Boiling range: 38°C	Flash point: 95C
Evaporation rate: No Data	Flammability: No Data
Explosive Limits: 3% - 27%	Partition coefficient (n-octanol/water): No Data
Autoignition temperature: No Data	Decomposition temperature: No Data
Viscosity: No Data	Grams VOC less water: 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 and nitrogen

Section 11 - Toxicological Information

Mixture Toxicity

Oral Toxicity LD50: 2,864mg/kg

Inhalation Toxicity LC50: 274mg/L

Component Toxicity

141-43-5

Monoethanolamine

Oral LD50: 1,515 mg/kg (Rat, male & female) Dermal LD50: 1,025 mg/kg (Rabbit) Inhalation LC

Exposure to this material may affect the following organs:

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

Section 12 - Ecological Information

Ecological information: No data found.

Component Ecotoxicity

Monoethanolamine

Toxicity to fish: LC50 (Carp (Cyprinus carpio carpio)): 349 mg/l, Exposure time: 96 h, Test Type: semi-static test, GLP: yes
Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): 65 mg/l, Exposure time: 48 h, Test Type: Immobilization, Analytical monitoring: yes, Method: static, GLP: yes
Toxicity to algae: EC50 (Pseudokirchneriella subcapitata): 2.8 mg/l, End point: Growth rate, Exposure time: 72 h, Test Type: static test, Analytical monitoring: yes, Method: OECD Test Guideline 201, GLP: yes

Ammonium hydroxide solution

LC50 fishes 1 0.16 - 1.1 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); SOLUTION >=50%)
LC50 other aquatic organisms 1 1 - 10 mg/l (96 h; SOLUTION >=50%)
LC50 fish 2 0.75 - 3.4 mg/l (96 h; Pimephales promelas; SOLUTION >=50%)
TLM fish 1 47 ppm (48 h; Salmo gairdneri (Oncorhynchus mykiss); COOL WATER)
TLM fish 2 34 ppm (48 h; Salmo gairdneri (Oncorhynchus mykiss); WARM WATER)
TLM other aquatic organisms 1 20 ppm (100 h; Daphnia magna)
Threshold limit other aquatic organisms 2 0.0012 mg/l (Oncorhynchus gorboscha; SOLUTION >=50%)

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:

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
US DOT	Corrosive liquids, n.o.s. (ethanolamine)	UN1760	III	8

Section 15 - Regulatory Information

Additional regulatory listings, where applicable.

The following chemicals are listed in MA RTK
141-43-5 Monoethanolamine 5 to 10 %

The following chemicals are on the NJ RTK list:
1336-21-6 Ammonium hydroxide solution 5 to 10 %
141-43-5 Monoethanolamine 5 to 10 %
6484-52-2 Ammonium nitrate 10 to 20 %

The following chemicals are on the PA RTK list
1336-21-6 Ammonium hydroxide solution 5 to 10 %
141-43-5 Monoethanolamine 5 to 10 %
6484-52-2 Ammonium nitrate 10 to 20 %

Country

Canada
US

Regulation

Canadian Domestic Substances List
Toxic Substances Control Act

All Components Listed

Yes
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

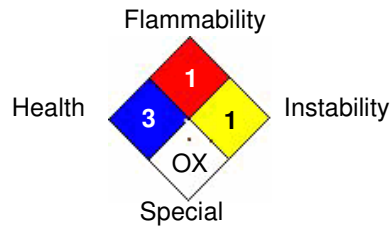
Hazardous Material Information System (HMIS)

HEALTH	<input type="text" value="3"/>
FLAMMABILITY	<input type="text" value="1"/>
PHYSICAL HAZARD	<input type="text" value="1"/>
PERSONAL PROTECTION	<input type="text"/>

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

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