

Safety Data Sheet (SDS)

Section 1 - Chemical Product and Company Information

Product Name: SB2230 Shore Strip

Product Code: B019

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: Paint Stripper
Not recommended for:

Section 2 - Hazards

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

GHS Ratings:

Flammable liquid	2	Flash point < 23°C and initial boiling point > 35°C (95°F)
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
Skin sensitizer	1	Skin sensitizer

GHS Hazards

H225	Highly flammable liquid and vapour
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H331	Toxic if inhaled

GHS Precautions

P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
P233	Keep container tightly closed
P240	Ground/bond container and receiving equipment
P241	Use explosion-proof electrical/ventilating/light/.../equipment
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge

P260	Do not breathe dust/fume/gas/mist/vapours/spray
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P264	Wash hands and exposed skin thoroughly after handling
P271	Use only outdoors or in a well-ventilated area
P272	Contaminated work clothing should not be allowed out of the workplace
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 SDS)
P363	Wash contaminated clothing before reuse
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P302+P352	IF ON SKIN: Wash with soap and water
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
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention
P370+P378	In case of fire: Use Carbon dioxide, dry chemical, or foam for extinction
P405	Store locked up
P403+P233	Store in a well ventilated place. Keep container tightly closed
P403+P235	Store in a well ventilated place. Keep cool
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 %
Dimethyl carbonate	616-38-6	60.00% - 70.00%
2-(2-butoxyethoxy)ethanol	112-34-5	10.00% - 20.00%
d-Limonene	5989-27-5	5.00% - 10.00%
Water	7732-18-5	5.00% - 10.00%
Ammonium hydroxide solution	1336-21-6	1.00% - 5.00%
Alcohols, C 10-12, ethoxylated propoxylated	68154-97-2	1.00% - 5.00%
Tetrapotassium pyrophosphate	7320-34-5	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.
If skin irritation continues, consult a doctor.

INGESTION - If material is ingested, seek immediate medical attention. If vomiting occurs spontaneously, keep the head below the hips to prevent aspiration of liquid into the lungs.

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: 14 C (57 F)

LEL: 1.00

UEL: 27.00

EXTINGUISHING MEDIA: Use carbon dioxide (CO₂), "alcohol" foam, dry chemical, or sand.

UNUSUAL FIRE OR EXPLOSION HAZARDS: The product vapor is heavier than air and may travel a considerable distance to a source of ignition and flashback. Heavy water stream could spread material.

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. Remove all ignition sources. Keep nonessential personnel away from the contaminated area.

SMALL SPILLS: Ventilate the contaminated area. Using nonsparking tools, 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. Using nonsparking tools, 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. Use the product in a manner which minimizes splashes and/or the creation of dust. Keep containers closed when not in use. Do not handle or store material near heat, sparks, open flames, or other sources of ignition. Store at room temperatures, i.e., 40 to 95 F (4 to 35 C).

STORAGE: Requirements to be met by storerooms and receptacles:

Store in a cool location.

Provide ventilation for receptacles.

Avoid storage near extreme heat, ignition sources or open flame.

· Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidizing agents.

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
Dimethyl carbonate 616-38-6	Not Established	Not Established	Not Established
2-(2-butoxyethoxy)ethanol 112-34-5	Not Established	TWA TLV 10 ppm	Not Established
d-Limonene 5989-27-5	Not Established	Not Established	8h TWA 30 ppm (AIHA Standard)
Water 7732-18-5	Not Established	Not Established	Not Established
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
Alcohols, C 10-12, ethoxylated propoxylated 68154-97-2	Not Established	Not Established	Not Established

Tetrapotassium pyrophosphate 7320-34-5	15 mg/m3 TWA (total dust) 5 mg/m3 TWA (respirable fraction)	Not Established	Not Established
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ENGINEERING: Do not use near fire or flame.

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:

<p>Appearance: Thick hazy liquid</p> <p>Vapor Pressure: 17.7 mmHg</p> <p>Vapor Density: 3.4</p> <p>Specific Gravity: 1.029</p> <p>Freezing point: No Data</p> <p>Boiling range: 38°C</p> <p>Evaporation rate: No Data</p> <p>Explosive Limits: 1% - 27%</p> <p>Autoignition temperature: No Data</p> <p>Viscosity: No Data</p>	<p>Odor: Strong solvent and ammonia</p> <p>Odor threshold: No Data</p> <p>pH: 10</p> <p>Melting point: No Data</p> <p>Solubility: No Data</p> <p>Flash point: 57 F, 14 C</p> <p>Flammability: No Data</p> <p>Partition coefficient (n-octanol/water): No Data</p> <p>Decomposition temperature: No Data</p> <p>Grams VOC less water: No Data</p>
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Section 10 - Stability and Reactivity

Stability: Hazardous polymerization will not occur.

STABLE

Components of this mixture are incompatible with the following materials: Oxidizers. This mixture may soften certain plastics and rubbers.

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

Section 11 - Toxicological Information

Mixture Toxicity

Oral Toxicity LD50: 3,426mg/kg

Dermal Toxicity LD50: 2,569mg/kg

Inhalation Toxicity LC50: 9mg/L

Component Toxicity

616-38-6 Dimethyl carbonate

Dermal LD50: 2,001 mg/kg (rabbit) Inhalation LC50: 5 mg/L (rat)

112-34-5 2-(2-butoxyethoxy)ethanol

Oral LD50: 4,500 mg/kg (rat) Dermal LD50: 2,764 mg/kg (rabbit) Inhalation LC50: 29 ppm (rat)

68154-97-2 Alcohols, C 10-12, ethoxylated propoxylated

Oral LD50: 1,800 mg/kg (rat) Dermal LD50: 2,001 mg/kg (rabbit)

7320-34-5 Tetrapotassium pyrophosphate

Dermal LD50: 4,640 mg/kg (rabbit)

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).

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
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Section 12 - Ecological Information

Ecological information: No data found.

Component Ecotoxicity

Dimethyl carbonate

LC50 (Danio rerio (zebra fish)): 100 mg/l 96 hr flow through

EC50 (daphnia magna (Water flea)): > 100 mg/l 48 hr static

EC50 (Pseudokirchneriella subcapitata): > 100 mg/l 72 hr static

2-(2-butoxyethoxy)ethanol

LC-50 (Fish, 96 h): 1,300 mg/l

EC-50 (daphnid, 48 h): >= 100 mg/l

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 gorbuscha; SOLUTION >=50%)

Alcohols, C 10-12, ethoxylated Acute
 propoxylated Algae EC50 Algae 1 - 10 mg/l, 96 hours
 Crustacea EC50 Daphnia 1 - 10 mg/l, 48 hours
 Fish LC50 Fish 1 - 10 mg/l, 96 hours

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	Paint Related Material	UN1263	II	3

Section 15 - Regulatory Information

Additional regulatory listings, where applicable.

The following chemicals are listed in MA RTK
 616-38-6 Dimethyl carbonate 60 to 70 %

The following chemicals are on the NJ RTK list:
 1336-21-6 Ammonium hydroxide solution 1 to 5 %
 112-34-5 2-(2-butoxyethoxy)ethanol 10 to 20 %
 616-38-6 Dimethyl carbonate 60 to 70 %

The following chemicals are on the PA RTK list
 1336-21-6 Ammonium hydroxide solution 1 to 5 %
 112-34-5 2-(2-butoxyethoxy)ethanol 10 to 20 %
 616-38-6 Dimethyl carbonate 60 to 70 %

Country

Canada

US

Regulation

Canadian Domestic Substances List

Toxic Substances Control Act

All Components Listed

No

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	3
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

HMIS & NFPA Hazard Rating Legend

* = Chronic Health Hazard

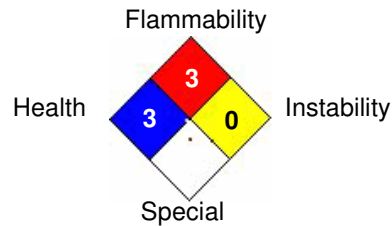
0 = INSIGNIFICANT

1 = SLIGHT

2 = MODERATE

3 = HIGH

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

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