

SAFETY DATA SHEET

Ultra Break

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Printed: 05/23/2015

Revision: 05/02/2015

Supersedes Revision: 04/28/2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: BRA/ULB
Product Name: Ultra Break
Company Name: Brady Industries, LLC
7055 Lindell Road
Las Vegas, NV 89118
Phone Number: +1 (702)876-3990
Web site address: www.shepardbros.com
Emergency Contact: CHEMTREC +1 (800)424-9300
Product Category: Alkali Builder

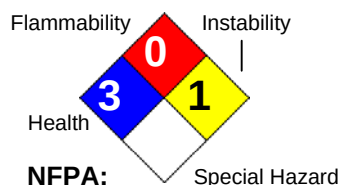
2. HAZARDS IDENTIFICATION

Skin Corrosion/Irritation, Category 1A



GHS Signal Word: Danger
GHS Hazard Phrases: H314 - Causes severe skin burns and eye damage.
GHS Precaution Phrases: P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
P264 - Wash hands thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
GHS Response Phrases: P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. P363 - Wash contaminated clothing before reuse.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER or doctor/physician.
GHS Storage and Disposal Phrases: P501 - Dispose of contents and containers in accordance with local, regional, national, and international regulations.

Hazard Rating System:



Potential Health Effects (Acute and Chronic): Direct contact causes burns to skin, eyes, and respiratory tract.
Chronic: No information found.
Inhalation: Caustic dust can cause burns of mucous membranes, throat, esophagus, and stomach.
Skin Contact: Can cause severe dermatitis, destruction, and skin burns. Corrosive to all body tissues by all routes of exposure. May cause severe burns to the skin.
Eye Contact: May cause rapid tissue damage, which can lead to permanent eye damage.
Ingestion: May cause severe burning of the mouth, throat, and stomach.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
1310-73-2	Sodium hydroxide	20.0 - 30.0 %

4. FIRST AID MEASURES

Emergency and First Aid

Procedures:

In Case of Inhalation:	Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask. Get medical attention immediately.
In Case of Skin Contact:	Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Gently wash with plenty of soap and water. Wash contaminated clothing separately before reuse. Get medical attention immediately.
In Case of Eye Contact:	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to do after 5 minutes and continue rinsing for an additional 15 minutes. Get medical attention immediately.
In Case of Ingestion:	Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Note to Physician:	Treat symptomatically and supportively. Show this safety data sheet to the doctor in attendance.

5. FIRE FIGHTING MEASURES

Flash Pt:	NA	Method Used: Not Applicable
Explosive Limits:	LEL: No data.	UEL: No data.
Autoignition Pt:	NA	
Suitable Extinguishing Media:	Foam, CO2, water fog, sand/earth.	
Fire Fighting Instructions:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH approved (or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.	
Flammable Properties and Hazards:	Contact of this product with many "active" metals such as aluminum, copper and zinc, can cause formation of flammable hydrogen gas.	

6. ACCIDENTAL RELEASE MEASURES

Protective Precautions, Protective Equipment and Emergency Procedures:	Use proper personal protective equipment as indicated in Section 8.
Environmental Precautions:	Do not let product enter drains, sewers, watersheds or water systems.
Steps To Be Taken In Case Material Is Released Or Spilled:	Spills/Leaks: Provide ventilation. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Contain spill using an inert diking material. Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Transfer material into an approved container for possible recovery and reuse or for disposal. Spill area may be neutralized with dilute acid (hydrochloric, sulfuric, phosphoric, acetic, etc) solution, the flushed with water, followed by liberal covering with sodium bicarbonate.

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7. HANDLING AND STORAGE

Precautions To Be Taken in Handling:	Use as directed. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse.
Precautions To Be Taken in Storing:	Store in a cool, dry, well-ventilated area away from incompatible substances. Do not store in direct sunlight. Keep away from heat, sparks and flame. Store in a tightly closed container. Keep container closed when not in use. Protect containers against damage.
Other Precautions:	Handle in accordance with good industrial hygiene and safety practices. Keep out of reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
1310-73-2	Sodium hydroxide	No data.	TLV: 2 mg/m3 CEIL: 2 mg/m3	No data.
Respiratory Equipment (Specify Type):	Avoid breathing vapors and mists. If ventilation is not sufficient to effectively prevent buildup of vapors or mists and the exposure limit is exceeded, use a NIOSH/MSHA approved respirator, with a full-facepiece or a full-facepiece respirator with organic vapor cartridges.			
Eye Protection:	Wear chemical splash goggles and a full-face shield where there is potential for eye contact.			
Protective Gloves:	Wear appropriate protective gloves to prevent skin exposure. Rubber or neoprene gloves. nitrile gloves.			
Other Protective Clothing:	Wear appropriate protective clothing to prevent skin exposure. Chemical resistant apron. Chemical resistant boots.			
Engineering Controls (Ventilation etc.):	Ensure adequate ventilation. Local exhaust is suggested for use in enclosed or confined areas. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.			
Work/Hygienic/Maintenance Practices:	Handle in accordance with good industrial hygiene and safety practice.			

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States:	☐ Gas ☒ Liquid ☐ Solid		
Appearance and Odor:	Appearance: Transparent. colorless. Liquid. Odor: Odorless.		
Melting Point:	< 32.0 F (0 C)		
Boiling Point:	> 212 F (100 C)		
Decomposition Temperature:	NA		
Autoignition Pt:	NA		
Flash Pt:	NA	Method Used:	Not Applicable
Explosive Limits:	LEL: No data.		UEL: No data.
Specific Gravity (Water = 1):	1.28		
Density:	NA		

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Bulk density: NA
Vapor Pressure (vs. Air or mm Hg): NA
Vapor Density (vs. Air = 1): NA
Evaporation Rate: NA
Solubility in Water: Complete
Saturated Vapor Concentration: NA
Viscosity: NA
pH: > 11.0 - (1% Soln)
Percent Volatile: NA
VOC / Volume: NA
Particle Size: NA
Heat Value: NA
Corrosion Rate: NA

10. STABILITY AND REACTIVITY

Reactivity: Contact of this product with many "active" metals such as aluminum, copper and zinc, can cause formation of flammable hydrogen gas.

Stability: Unstable [] Stable [X]

Conditions To Avoid - Instability: High temperatures, Ignition sources, Incompatible materials, Direct sunlight.

Incompatibility - Materials To Avoid: Acids, Organic halogenated compounds, Flammable liquids, Contact of this product with many "active" metals such as aluminum, copper and zinc, can cause formation of flammable hydrogen gas.

Hazardous Decomposition or Byproducts: Contact of this product with many "active" metals such as aluminum, copper and zinc, can cause formation of flammable hydrogen gas.

Possibility of Hazardous Reactions: Will occur [] Will not occur [X]

Conditions To Avoid - Hazardous Reactions: No data available.

11. TOXICOLOGICAL INFORMATION

Toxicological Information: Epidemiology: No information available.
Teratogenicity: No information available.
Reproductive Effects: No information available.
Mutagenicity: No information available.
Neurotoxicity: No information available.
Other Studies: CAS# 1310-73-2
Acute toxicity, LDLO, Oral, Species: Rabbit, 500.0 mg/kg.

Irritation or Corrosion: Other Studies: CAS# 1310-73-2
Standard Draize Test, Eyes, Species: Rabbit, 400.0 ug.

Carcinogenicity/Other Information: CAS# 1310-73-2: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

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12. ECOLOGICAL INFORMATION

General Ecological Information:

Environmental: No information available.

Physical: No information available.

Other Studies: CAS# 1310-73-2:

LC50, Common Shrimp, Sand Shrimp (*Crangon crangon*), adult(s), 33000 - 100000 ug/L, 48H, MortalityLC50, Western Mosquitofish (*Gambusia affinis*), adult(s), 125000 ug/L, 96H, MortalityLC50, Cockle (*Cerastoderma edule*), adult(s) 330000 - 1000000 ug/L, 48H, MortalityLC50, Guppy (*Poecilia reticulata*), young organism(s), 196.0 mg/L, 96H, Mortality.**Results of PBT and vPvB assessment:**

No data available.

Persistence and Degradability:

No data available.

Bioaccumulative Potential:

No data available.

Mobility in Soil:

No data available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. Observe all federal, state, and local environmental regulations.

14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):**DOT Proper Shipping Name:** Sodium Hydroxide Solution.**DOT Hazard Class:** 8 CORROSIVE**UN/NA Number:** UN1824**Packing Group:** II

15. REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
1310-73-2	Sodium hydroxide	No	Yes 1000 LB	No

CAS #	Hazardous Components (Chemical Name)
1310-73-2	Sodium hydroxide

Other US EPA or State Lists

TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8

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16. OTHER INFORMATION

Revision Date: 05/02/2015

Preparer Name: Crystal Maira

Additional Information: No data available.

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