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### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: BRA/ULB
Product Name: Ultra Break

Company Name: Brady Industries, LLC Phone Number: 7055 Lindell Road +1 (702)876-3990

Las Vegas, NV 89118

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 Direct contact causes burns to skin, eyes, and respiratory tract.

(Acute and Chronic): 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 No data.

CEIL: 2 mg/m3

**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 [ X ] 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 NA

mm Hg):

Vapor Density (vs. Air = 1): NA Evaporation Rate: NA

Solubility in Water: Complete

Saturated Vapor

Concentration:

NA

- Control ation

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 Acids, Organic halogenated compounds, Flammable liquids, Contact of this product with

Avoid: many "active" metals such as aluminum, copper and zinc, can cause formation of

flammable hydrogen gas.

Hazardous Decomposition or Contact of this product with many "active" metals such as aluminum, copper and zinc,

**Byproducts:** can cause formation of flammable hydrogen gas.

**Possibility of Hazardous** 

Reactions:

Will occur [ ] Will not occur [ X ]

**Conditions To Avoid -** No data available.

**Hazardous Reactions:** 

### 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** 

Environmental: No information available.

Information:

Physical: No information available.

Other Studies: CAS# 1310-73-2:

LC50, Common Shrimp, Sand Shrimp (Crangon crangon), adult(s), 33000 - 100000 ug/L,

48H, Mortality

LC50, Western Mosquitofish (Gambusia affinis), adult(s), 125000 ug/L, 96H, Mortality LC50, Cockle (Cerastoderma edule), adult(s) 330000 - 1000000 ug/L, 48H, Mortality LC50, Guppy (Poecilia reticulata), young organism(s), 196.0 mg/L, 96H, Mortality.

Results of PBT and vPvB

assessment:

No data available.

Persistence and

No data available.

Degradability:

**Mobility in Soil:** 

No data available. **Bioaccumulative Potential:** 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: CORROSIVE** 

**UN/NA Number:** UN1824 **Packing Group:** Ш



### 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)** Other US EPA or State Lists

1310-73-2 Sodium hydroxide 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.

**Company Policy or** 

Disclaimer:

 $Information\ presented\ herein\ is\ believed\ to\ be\ accurate\ and\ reliable\ to\ the\ best\ of\ our\ knowledge.\ However,\ we$ 

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particular purposes.