

Material Safety Data Sheet

Number: **DMN0327**

Product Name: **L. L. Break, Daco[®]**

A liquid alkaline detergent.

Revised: 3/24/10

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Section 2 - Composition / Information on Hazardous Ingredients

<u>Ingredient</u>	<u>Cas No.</u>	<u>Percent</u>	<u>Carcinogen</u>
Potassium hydroxide	1310-58-3	10 - 30%	No
Sodium hydroxide	1310-73-2	2 - 10%	No

Section 3 - Hazards Identification

Emergency Overview: Liquid is very corrosive to all body parts. A colorless liquid with slight odor. Product is water based and presents little hazard in a fire. Product has a high pH and more than 1 gallon of concentrate should not be allowed into sewers without neutralizing.

Health Hazards: Corrosive

Physical Hazards: None

Primary Routes of Entry: Through Skin Inhalation Ingestion

Potential Health Effects:

Eyes - causes severe irritation and damage, redness, tearing, blurred vision, may cause blindness.

Skin - causes severe irritation. Prolonged contact can cause permanent damage to skin.

Swallowing - causes gastrointestinal irritation and burns, nausea, vomiting, diarrhea.

Breathing - excessive inhalation of vapors might cause irritation.

Section 4 - First Aid Measures

Eye Contact: Immediately flush eyes with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention immediately.

Skin Contact: Immediately flush skin with running water for 15 minutes. Remove contaminated clothing and shoes. If there is redness, irritation or pain after flushing for 15 minutes, get medical attention immediately.. Wash contaminated clothing before reuse. Throw away contaminated shoes.

Inhalation: If affected, move the exposed person to fresh air. If irritation persists get medical attention.

Ingestion: If the product is swallowed, do NOT induce vomiting. If affected person is conscious, give a glass of water or milk to drink. Get medical attention immediately.

Section 5 - Fire-Fighting Measures

Flash Point: None (ASTM D-56 closed cup)

Lower Explosive Limit: Not Applicable

Upper Explosive Limit: Not Applicable

Extinguishing Media: Any.

Special Fire Fighting Procedures: None.

Unusual Fire And Explosion Hazards: None.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Use adequate protective equipment such as gloves, safety glasses, boots, aprons, etc. Small spills of 1 gallon or less may be wiped or mopped up or flushed directly to a sanitary sewer. Larger spills should be diked to prevent spreading and then collected into clean pails or drums.

Section 7 - Handling and Storage

Empty containers retain product residue and are hazardous. Observe all precautions given in this data sheet.

Section 8 - Exposure Controls / Personal Protection

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>Percent</u>	<u>TWA(source)</u>	<u>STEL</u>	<u>Ceiling</u>
Potassium hydroxide	1310-58-3	10 - 30%	2 mg/m ³ (2)	-	2 mg/m ³ (3,4)
Sodium Hydroxide	1310-73-2	2 - 6%	2 mg/m ³ (1)	-	2 mg/m ³ (2,3,4)

(1)=OSHA (2)=NIOSH (3)=ACGIH (4)=CANADA TWA=8 hr Time Weighted Average STEL=15 minute TWA Ceiling=Instantaneous

Ventilation: Good room ventilation.

Respiratory Protection: None when used as directed.

Gloves: When changing containers, handling open containers or cleaning up spills wear resistant gloves such as neoprene or latex. Do not use disposable latex gloves.

Eye Protection: When changing containers, handling open containers or cleaning up spills wear safety glasses with side shields, goggles or face shield.

Other Protective Equipment: When changing containers, handling open containers or cleaning up spills wear resistant gloves such as neoprene or latex, safety glasses with side shields or goggles, vinyl or rubber apron and impervious shoes (not tennis shoes or sneakers). An eyewash station should be located within 10 seconds travel of the use area.

Section 9 - Physical and Chemical Properties

Boiling Point: 215° F.

Specific Gravity: 1.4

Percent Volatiles: 50%

Solubility In Water: Complete

Appearance and Odor: Colorless liquid with slight odor.

Vapor Pressure: Not Applicable

Vapor Density: Not Applicable

Evaporation Rate: Not Applicable

pH: concentrate 13.5 ± 0.5

Section 10 - Stability and Reactivity

Incompatibility: None

Hazardous Decomposition Products: None

Section 11 - Toxicological Information

Target Organs: None.

Section 12 - Ecological Information

Do not dispose of in the environment.

Section 13 - Disposal Considerations

Waste Disposal Method: Up to 1 gallon may be washed to a sanitary sewer with a large amount of water. Larger amounts should be neutralized to within pH limits of your waste water system and then disposed of in sewer.

Section 14 - Transport Information

D.O.T. Hazard Class: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (CONTAINS POTASSIUM HYDROXIDE AND SODIUM HYDROXIDE) 8, UN 3266, P.G. II

Section 15 - Regulatory Information

The components of this product are on the TSCA inventory of chemical substances.

Section 16 - Other Information

NFPA: H:3 F:0 I:0 **HMIS® III:** H:3 F:0 P:1 These ratings estimates are to be used only with a fully implemented training program in the workplace. NFPA® is a mark registered by the NFPA. HMIS® is a mark registered by the NPCA.

Replaces sheet dated 8/4/98.

The information accumulated herein is believed to be accurate but is not warranted to be. Recipients are advised to confirm in advance that the information is current, applicable, and suitable to their circumstances.