

Section 1 - Identification

Product Name: **L. L. Break, Daco[®]** A liquid alkaline detergent. Revised: 4/28/15

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Section 2 - Hazards Identification

Hazard categories: Skin Corrosion/Irritation 1; Eye Corrosion/Irritation 1; Corrosive to metals 1
 Hazard statements: Causes severe skin burns and serious eye damage. May be corrosive to metals.
 Signal word: Danger
 Pictogram: Corrosion

Precautionary statements

Prevention

Do not breath dusts or mists. Wash hands thoroughly after handling.
 Wear protective gloves such as latex.
 Wear eye protection such as safety glasses with side shields.
 Wear protective gloves such as latex. Keep only in original container.

Response

IF SWALLOWED: Rinse mouth. Do not induce vomiting.

IF ON SKIN (OR HAIR): Take off immediately all contaminated clothing before reuse. Rinse skin with water.
 Wash contaminated clothing before reuse

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER for medical advice.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
 Continue rinsing.

Absorb spillage to prevent material damage.

Storage: Store in corrosive resistant container with a resistant inner liner. Store locked up.

Disposal: Dispose of contents in accordance with local, regional, national, and international regulations.

Section 3 - Composition / Information on Ingredients

Ingredient	C.A.S. No.	Concentration
Water	7732-18-5	72%
Sodium hydroxide	1310-73-2	12%
Potassium hydroxide	1310-58-3	9%
EDTA	60-00-4	3%
2-Propenoic acid, telomer with sodium hydrogen sulfite, sodium salt	68479-09-04	2%
Sodium silicate	1344-09-8	2%

The remaining ingredients are not reportable as described in Appendix D to Sec. 1910.1200 Table D.1.

Section 4 - First Aid Measures

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing, lifting upper and lower eyelids occasionally. If eye irritation persists: Get medical attention.

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

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

Ingredient	C.A.S. No.	Concentration	TWA(source)	STEL	Ceiling
Sodium Hydroxide	1310-73-2	12%	2 mg/m ³ (2)	-	2 mg/m ³ (3,4)
Potassium Hydroxide	1310-58-3	9%	2 mg/m ³ (2)	None	2 mg/m ³ (3,4)

(1)=OSHA (2)=NIOSH (3)=ACGIH (4)=CANADA TWA=8 hour Time Weighted Average STEL=15 minute TWA Ceiling=Instantaneous
Ingredients not shown either have no known limits or are below reportable levels in section 3 above.

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 sneakers). An eyewash station should be located within 10 seconds travel of the use area.

Section 9 - Physical and Chemical Properties

Appearance and Odor: Colorless liquid with slight odor.	
Odor Threshold: Not Available	Vapor Pressure: Not Available
pH: concentrate 13.5 ± 0.5	Vapor Density: Not Available
Melting Point: Not Available	Relative Density (Specific Gravity): 1.4
Freezing Point: Not Available	Solubility(ies): Water: 100%
Boiling Point, Initial: 215° F.	Partition coefficient: Not Available
Boiling Range: Not Available	Auto-ignition Temperature: Not Available
Flash Point: None. (ASTM D-56 closed cup)	Decomposition Temperature: Not Available
Evaporation Rate: ~1 (Water = 1)	Viscosity: Same as water.-
Flammability: (solid, gas): Not Applicable	Volatiles Percent: 50%
Upper Explosive Limit: None	V.O.C.: 0% - 0 grams/liter
Lower Explosive Limit: None	

Section 10 - Stability and Reactivity

Incompatibility: None

Hazardous Decomposition Products: None

Section 11 - Toxicological Information

Primary Routes of Entry: Skin contact; Skin absorption; 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 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 may 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: UN 3266, corrosive liquid, basic, inorganic, n.o.s. (contains sodium and potassium hydroxides) 8, 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 3/24/10. GHS conversion.

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.