

Material Safety Data Sheet

Number: **DMN0325**

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

A liquid alkaline bleach.

Revised: 5/20/08

Damon Industries, Inc.

Box 2120

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24 hour Emergency Only phone: 1-800-535-5053

Information phone: 1-800-362-9850 or 330-821-5310

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Section 2 - Composition / Information on Hazardous Ingredients

<u>Ingredient</u>	<u>Cas No.</u>	<u>Percent</u>	<u>Carcinogen</u>
Sodium Hypochlorite	7681-52-9	12 - 13%	No
Sodium Hydroxide	1310-73-2	2 - 6%	No

Section 3 - Hazards Identification

Emergency Overview: Liquid is corrosive to all body parts. Excessive inhalation of fumes is irritating to the nose, throat and lungs. Mixing with acids produces chlorine gas. A light yellow liquid with chlorine 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, Irritant

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 can cause nasal and respiratory irritation, dizziness, nausea.

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 irritation persists, call a physician. Wash clothing before reuse.

Inhalation: If affected, move 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: Do not use soda-acid extinguishers.

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: Small spills of 1 gallon or less may be wiped or mopped up. 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 may be hazardous. Observe all precautions given in this data sheet.

Store separate from acids in a cool, well ventilated area. Remove leaking containers.

Contains bleach. Do not mix with other cleaners, especially those containing ammonia or acids, because this could produce a dangerous gas (chlorine). If this product is only used with an automatic chemical feed system there should never be a hazard. However, if hooked up improperly, spilled or misused, gas could accidentally be produced. If gas is accidentally produced immediately flush the mixture down a drain with lots of running water if this is safely possible. Immediately open windows if possible, and if gas is irritating to eyes or lungs, leave the immediate area of the accident. The smell of chlorine is not itself hazardous. If the smell is strong enough to cause any symptoms of irritation or nausea it is hazardous. Avoid prolonged breathing of even slight amounts of gas. In many cases evacuation of the building is NOT necessary unless a large quantity of gas was produced. However, any area where irritation occurs to occupants should be evacuated. Re-enter areas only when gas has dissipated.

or with proper protective equipment. If adequate ventilation is not available to dissipate the gas or more than a small amount of chemical was mixed call 911. Assistance is available through our 24 hour emergency 800 number. This paragraph is provided for your information only. Your facility should decide upon the appropriate emergency action plan for accidental release of chlorine as a part of your emergency preparedness plan. Contact Damon Industries if more information is needed.

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>
Sodium Hypochlorite	7681-52-9	12 - 13%	no established limits are available		
Sodium Hydroxide	1310-73-2	2 - 6%	2 mg/m ³ (1)	-	2 mg/m ³ (2,3,4)

Since these are both solids they cannot become airborne from the liquid product.

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

Ventilation: Good room ventilation. Four air changes per hour should be adequate.

Respiratory Protection: None when used as directed.

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 time.

Section 9 - Physical and Chemical Properties

Boiling Point: 220° F.

Specific Gravity: 1.3

Percent Volatiles: 85%

Solubility In Water: Complete

Appearance and Odor: Light yellow liquid with chlorine (bleach) odor.

Vapor Pressure: Not Applicable

Vapor Density: Heavier than air.

Evaporation Rate: Not Applicable

pH: concentrate 13.5 ± 0.5, 1% solution 12.5 ± 0.5

Section 10 - Stability and Reactivity

Incompatibility: Acids, ammonia

Examples of products containing acids are bowl cleaners, phenolic disinfectants and de-limer / de-mineralizers.

Many window cleaners and floor strippers contain ammonia.

Hazardous Decomposition Products: Chlorine

Section 11 - Toxicological Information

Target Organs: None.

Section 12 - Ecological Information

Do not dispose of in nature.

Section 13 - Disposal Considerations

Waste Disposal Method: Up to 1 gallon may be washed to sewer with a large amount of water. Contact Damon Industries for disposal of larger amounts.

Section 14 - Transport Information

D.O.T. Hazard Class: HYPOCHLORITE SOLUTIONS, 8, UN 1791, P.G. III

Section 15 - Regulatory Information

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

Section 16 - Other Information

NFPA®: H:2 F:0 I:1 **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.