

# MATERIAL SAFETY DATA SHEET

Product Name: LIQUID LO HI LAUNDRY DETERGENT

Product No. 079.00

## SAVIN PRODUCTS COMPANY, INC.

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: LIQUID LO HI LAUNDRY DETERGENT

Emergency phone: Chemtrec: 800-424-9300

Product Information: 781-961-2744

Company: SAVIN PRODUCTS COMPANY, INC.  
214 HIGH STREET  
RANDOLPH, MA 02368

Date Prepared: 3-12-04

Supersedes: 10-02-00

Prepared by: KJS

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>Exposure Limits</u>	<u>Typical % by Weight</u>
1. Sodium Dodecylbenzenesulfonate	25155-30-0	N/A	20 - 25
2. Triethanolamine	102-71-6	N/A	5 - 10
3. Diethanolamine	111-42-2	N/A TLV: 0.46 ppm; 2 mg/m <sup>3</sup> (skin) ACGIH 1995-1996).	1 - 5
3. Ethoxylated Alcohols	68154-07-2	N/A	5 - 10

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**WARNING:** Causes severe eye irritation and /or burns. May cause skin irritation with prolonged contact. Inhalation of mist can cause damage to respiratory tract. Harmful if swallowed. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid breathing mist. Do not take internally.

EFFECTS of OVEREXPOSURE:

CARCINOGENICITY:

NTP: No

IARC: No

OSHA: No

EYES: Causes severe eye irritation.

SKIN: Repeated or prolonged contact may cause skin irritation.

INHALATION: Mist may cause damage to mucous membranes and respiratory tract.

INGESTION: May result in gastric disturbances.

CHRONIC EFFECTS and MEDICAL CONDITIONS: The effects of long-term, low-level exposures to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the avoidance of all effects from repetitive acute exposure. This product may aggravate existing eye, skin and respiratory conditions.

### 4. FIRST AID MEASURES

EYES: Flush with copious amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. Get immediate medical attention.

SKIN: Immediately flush with water. Remove contaminated clothing. Launder contaminated clothing before reuse.

INHALATION: Remove to fresh air. If breathing is difficult, oxygen may be given, preferably with a physician's advice. Get medical attention.

INGESTION: If swallowed, give several glasses of water. Do not induce vomiting. If vomiting does occur, give fluids again and keep head below hips to help prevent aspiration. Do not give anything by mouth to an unconscious person. Get immediate medical attention.

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## 5. FIRE FIGHTING MEASURES

### FLAMMABLE PROPERTIES:

Flash Point: >200 F                      Test: SETA CC, ASTM D – 3278  
Explosive Limits:    LEL: N/D UEL: N/D

EXTINGUISHING MEDIA: Not combustible under test conditions. However evaporated water leaves a combustible product ( Fl. Pt. 350°F) OSHA/NFP Class IIIB. Use procedures most appropriate to surrounding fire. Water spray to cool drum.

SPECIAL PROCEDURES & UNUSUAL HAZARDS: Very slippery under foot. Very foam when mixed with water.

FIREFIGHTING INSTRUCTIONS: Firefighters should wear NIOSH approved, positive pressure, self-contained breathing apparatus and full protective clothing when appropriate.

## 6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS: Soak up small spills with inert solids. Use suitable disposal container.

LARGE SPILLS: Limit access to area. Dike and contain spill with inert material (sand, earth, etc.) and transfer the liquid and solid separately to containers for recovery or disposal. Keep spill out of sewers and open bodies of water. CAUTION: Floor may become slippery.

## 7. HANDLING AND STORAGE

Handle according to good manufacturing and warehousing practices. Keep containers tightly closed when not in use. Use good personal hygiene practices. Wash hand before eating, drinking, smoking or using toilet facilities. Promptly remove soiled clothing and wash thoroughly before reuse. Store only in tightly closed containers away from heat.

Mechanical spraying of this product not recommended. Strong solutions may increase hazards of combustion and worker exposure.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION: Avoid splashing. Wear chemical-resistant safety goggles if necessary. Contact lenses must not be worn.

PROTECTIVE GLOVES: Depending on conditions of use, protective gloves, apron, boots, head and face protection should be worn. This equipment should be cleaned thoroughly after each use.

RESPIRATORY PROTECTION: No occupational exposure standards have been developed for this material. Where exposure through inhalation may occur from use, NIOSH/MSHA approved respiratory protection equipment is recommended.

VENTILATION: Ventilation is required in case of mist conditions. Either local exhaust or general room ventilation is usually adequate.

OTHER PROTECTIVE EQUIPMENT: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear, amber, viscous foamy liquid.

BOILING POINT: approx. 100C @ 1ATM

FREEZE/MELT POINT: approx. 0C

VAPOR PRESSURE (mm): ca water

VAPOR DENSITY (air=1): ca water

EVAPORATION RATE: approx. water

SOLUBILITY IN WATER: Complete.

SPECIFIC GRAVITY: 1.06 @ 20C

DENSITY: 8.8 lb./gal. @ 20C

pH( as is ): 11 – 12.0

ODOR: Mild Lemon

ODOR THRESHOLD (ppm): Not determined.

## 10. STABILITY AND REACTIVITY

CHEMICAL STABILITY (CONDITIONS TO AVOID): Stable.

INCOMPATIBILITY: Strong acids, strong oxidizers and excessive heat.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, Carbon Dioxide, Hydrogen Sulfide and other toxic gases.

HAZARDOUS POLYMERIZATION: None

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## 11. TOXICOLOGICAL INFORMATION

No LD50 or LC50 found for oral, dermal or inhalation routes of administration.

## 12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL/CHEMICAL FATE INFORMATION: Not available.

## 13. DISPOSAL CONSIDERATIONS

RCRA: This product, if disposed as shipped, is not considered a hazardous waste as specified in 40 CFR 261. Dispose in accordance with all applicable federal, state and local regulations.

## 14. TRANSPORT INFORMATION

SHIPPING NAME: Compound, Cleaning, Liquid  
HAZARD CLASS: Not regulated as HAZMAT.  
ID #: N/A  
PACKING GROUP: N/A  
LABEL: N/A

## 15. REGULATORY INFORMATION

This material does not contain nor was it manufactured using ozone-depleting chemicals.

### U.S. FEDERAL REGULATIONS:

TSCA STATUS: All ingredients on Toxic Substance Control Act Inventory.

CERCLA REPORTABLE QUANTITY: Sodium dodecylbenzenesulfonate (1000 lbs)  
Diethanolamine (100 lbs)

### SARA TITLE III:

Section 302 Extremely Hazardous Substances:	None.
Section 311/312 Hazardous Categories:	Immediate (Acute)
Section 313 Toxic Chemicals:	Diethanolamine (CAS# 111-42-2)

## 16. OTHER INFORMATION

All label precautions must be observed when handling, storing and transporting empty containers due to product residues. Do not reuse this container unless it is professionally cleaned and reconditioned.

### REFERENCES:

- U.S. Dept. of Health and Human Services, NIOSH: Registry of Toxic Effects of Chemical Substances, 1985-86 Edition.
- Sax, N. Irving and Lewis, R.J.: Dangerous Properties of Industrial Materials, 7th Edition, Van Nostrand Reinhold Co., 1989.
- Lewis, R.J.: Hawley's Condensed Chemical Dictionary, 12th Edition, Van Nostrand Reinhold Co., 1993.
- U.S. Dept. of Transportation, U.S. Coast Guard: CHRIS Hazardous Chemical Data, 1982.
- U.S. Dept. of Labor, OSHA: Air Contaminants - Permissible Exposure Limits, 1989.
- National Fire Protection Association (NFPA): Fire Protection Guide on Hazardous Materials (NFPA 325M/49/491M/704), 9th Edition, 1986.
- National Fire Protection Association (NFPA): Hazardous Materials Response Handbook, Henry, M.F., Editor, 1989.
- Merck & Co., Inc.: The Merck Index, 11th Edition, 1989.

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