

# ECOLAB

Ecolab Center  
St. Paul, Minnesota 55102

LIFT-OFF N.A.

61205282

## \*MATERIAL SAFETY DATA SHEET\*

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MEDICAL EMERGENCY ONLY, 24 HOUR SERVICE: 1-800-328-0026  
Medical Calls from Outside of the USA: 612 292 4064 (USA)

ECOLAB PROFESSIONAL PRODUCTS  
DIVISION OF ECOLAB INC.  
Ecolab Center, ST. PAUL, MN 55102

For Product Information,  
Call: 1-800-247-5362  
Date of Issue: October 23, 1997

### 1.0 IDENTIFICATION /

- 1.1 Product Name: LIFT-OFF N.A.
- 1.2 Product Type: Heavy Duty Stripper, non ammoniated.
- 1.3 Hazard Rating: Health 3 Fire 0 Reactivity 0

++ SARA 313 Toxic Chemicals, If present, Are Preceded By "#" ++

### 2.0 HAZARDOUS COMPONENTS /

	(mg/m3)		
	%	PEL	TWA
2.1 Sodium hydroxide (caustic soda) 1310-73-2	4	2	2 C
2.2 Ethanolamine (MEA) 141-43-5	13	6	*
* ACGIH STEL = 15			
2.3 This product does contain 7% glycol ether. This product contains no other component considered hazardous according to the criteria of 29 CFR 1910.1200.			

STEL = 15 Minute Average in Air  
TWA = ACGIH 8 Hour Average

PEL = OSHA 8 Hour Average  
C = Ceiling Limit; Do Not Exceed

### 3.0 PHYSICAL DATA /

- 3.1 Appearance: Clear blue/green liquid; Citrus odor.
- 3.2 Solubility in Water: Mixes with water in all proportions.
- 3.3 100% pH: 13.5 Use Solution pH: 12.8
- 3.4 Initial Boiling Point: 212 deg F
- 3.5 Specific Gravity: 1.0

### 4.0 FIRE AND EXPLOSION DATA /

- 4.1 Special Fire Hazards: None
- 4.2 Fire Fighting Methods: Product does not support combustion.

### 5.0 REACTIVITY DATA /

- 5.1 Stability: Stable under normal conditions of handling.
- 5.2 Conditions to Avoid: Do not mix with anything but water.
- 5.3 Keep from freezing.

### 6.0 SPILL OR LEAK PROCEDURES / USE PROPER PROTECTIVE EQUIPMENT

- 6.1 Cleanup: Dike or dam large spills. Pump to containers or soak up on inert absorbent. Flush residue to sanitary sewer.
- 6.2 Waste Disposal: Consult state/local authorities for limits on chemical waste disposal. Unused product is Corrosive (D002) by RCRA criteria.

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**7.0 HEALTH HAZARD DATA /****DANGER****7.1 Effects of Overexposure to Concentrate:**

Skin and Eyes: CAUSES SEVERE CHEMICAL BURNS. Eye contact may cause blindness. Harmful contact may not cause immediate pain.

++ Immediate water flushing is vital in case of eye contact. ++

If Swallowed: HARMFUL OR FATAL. Causes chemical burns of mouth, throat and stomach.

If Inhaled: Damages airways and lungs, depending upon amount and duration of exposure. Effects can vary from slight irritation to bronchitis or pneumonia. People with asthma or other lung problems may be more affected.

7.2 Note: Use solutions may also be corrosive. See line 9.2.

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**8.0 FIRST AID /**

8.1 Eyes: Flush at once with cool running water. Remove contact lenses. Continue flushing for at least 15 minutes, holding eyelids apart so as to rinse entire eye. CALL A PHYSICIAN IMMEDIATELY.

8.2 Skin: Immediately flush skin with plenty of cool running water for at least 15 minutes while removing contaminated clothing and shoes; discard or wash well before reuse.

8.3 If Swallowed: Rinse mouth at once; then drink 1 or 2 large glasses of water or milk. DO NOT induce vomiting. NEVER give anything by mouth to an unconscious person.

8.4 If Inhaled: Immediately move to fresh air.

IMMEDIATELY CALL THE MEDICAL EMERGENCY NUMBER (1-800-328-0026),  
A POISON CONTROL CENTER OR A PHYSICIAN

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**9.0 PROTECTIVE MEASURES /****9.1 FOR CONCENTRATE:**

Respiratory: Avoid breathing mists or vapors of this product.

Eyes: Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.

Skin: Use any industrial rubber gloves.

9.2 USE SOLUTIONS: Avoid contact with use solutions. These may also be hazardous.

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**10.0 ADDITIONAL INFORMATION/PRECAUTIONS /**

10.1 DOT: Caustic Alkali Liquid, N.O.S. (Contains Sodium Hydroxide, Monoethanolamine), 8, UN1719, PG II

KEEP OUT OF REACH OF CHILDREN

The above information is believed to be correct with respect to the formula used to manufacture the product. As data, standards and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.

# LIFT-OFF<sup>®</sup>

**Floor Stripping Products—  
The First Step to Better Looking Floors**



A good floor care program begins before the first drop of finish or sealer is applied. An effective stripping operation removes old finish and soil from the floor and provides the foundation for all future floor maintenance procedures.

LIFT-OFF PRODUCTS rapidly remove heavy buildup of old and hardened floor finishes, reducing the toil of floor stripping. LIFT-OFF low-foaming strippers maximize the abrasive action of the floor pad, and both strippers are free rinsing, which saves labor time by leaving floors residue free. LIFT-OFF Neutralizer properly prepares floor surfaces for finish recoat.

## LIFT-OFF N.A. Non-Ammoniated Stripper

Ideal for use in hospitals, nursing homes, or other facilities where ammonia odors would cause excessive disruption of normal work schedules. LIFT-OFF N.A. removes acrylic metal cross-link finishes but leaves undercoat sealers unaffected—saves on labor and material costs associated with sealer reapplication.

**Uses:** Recommended for use with a floor machine and stripping pad, but can also be used as a mop-on/vacuum-off stripper on less durable floor finishes. Suitable for vinyl and vinyl asbestos floor tile and most other resilient and hard floor surfaces.

### Application

- Removal of unburnished metal cross-link floor finish.
- Complete removal of moderately burnished metal cross-linked floor finish.
- Complete removal of finish buildups or heavily burnished metal cross-linked floor finish.

### Features

- Fast acting, non-ammoniated stripping performance.
- Effective on metal cross-link finishes but leaves undercoat sealer unaffected.
- Effective as a mop-on/vacuum-off stripper.
- Free rinsing, low foaming.

### Dilution

- 1:16 (1 cup of concentrate per gallon of water).
- 1:8 (2 cups of concentrate per gallon of water).
- 1:4 (4 cups of concentrate per gallon of water).

### Benefits

- No irritating ammonia odors to disrupt working schedules. Reduces labor costs.
- Saves on labor and material costs associated with reapplying sealer.
- Versatile product—saves money.
- Provides residue-free floors with minimal labor.

## LIFT-OFF Ammoniated Stripper

Effective on really tough film in areas where finish has been down for an extended period, or has been toughened by repeated burnishing or spray buffing. Concentrated product can be diluted to suit a particular need—saves money.

**Uses:** Effective on acrylic metal (zinc) cross-link finishes, floor waxes, and some acrylic copolymer sealers. Safe for use on most resilient tile floors (except linoleum), and all hard floors such as terrazzo, marble, stone, and concrete.

### Application

- Complete removal of moderately burnished metal cross-linked floor finish.
- Complete removal of finish buildups or heavily burnished metal cross-link finish.
- Removal of acrylic copolymer floor sealers.

### Features

- Rapidly penetrates and dissolves problem finish and wax film.
- Multiple dilutions for different needs.
- Free rinsing, low foaming.

### Dilution

- 1:8 in cool or ambient water (one pint of concentrate per gallon of water).
- 1:4 in cool or ambient water (1 quart of concentrate per gallon of water).

### Benefits

- Saves labor by providing complete finish removal, quickly.
- One product, many applications—saves money.
- Provides residue-free floors with minimal labor.

## LIFT-OFF Neutralizer

Ensures floor surface is properly prepared for recoating. Modern floor finish strippers may leave high pH alkaline residues which, when floor finish is applied, cause streaking, haziness, poor leveling, soft finish, and poor water resistance.

**Uses:** Neutralizes alkali residues and conditions floor surfaces to the correct pH to ensure optimum floor finish performance.

### Application

- To neutralize floor stripper residue.

### Dilution

- 1 to 2 ounces per gallon of water.

### Features

- Ensures optimum adhesion of finish to floor sealer.
- Quickly neutralizes alkali floor stripper residue.
- Eliminates chloride haze (ice melt compound) from all surfaces.
- Mild-acid concentrate.

### Benefits

- Extends life of floor finish.
- Saves labor costs by reducing rinsing time.
- Extends finish life and improves floor appearance.
- Safe on all floor surfaces—no irritating fumes.



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