

Material Safety Data Sheet

Revision Date 29-Mar-2013

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product code DL1300 05
Product name LIFT-OFF
Recommended Use Floor Care

Supplier Drummond, A Lawson Brand
Lawson Products, Inc.
8770 W.Bryn Mawr Ave.- Suite 900
Chicago, IL 60631
1-866-529-7664

Emergency telephone number (888) 426-4851

2. HAZARDS IDENTIFICATION

Emergency Overview

Corrosive!. May cause skin burns. The product causes burns of eyes and digestive tract. Irritating to respiratory system. May cause eye/skin irritation.

Aggravated Medical Conditions
None Known

Principal Routes of Exposure
Skin. Eyes.

Potential health effects

Eyes Corrosive to the eyes. Contact with eyes may cause irritation. Risk of serious damage to eyes.

Skin May cause the following effects: . Skin burns. Skin Irritation. Prolonged skin contact with 2-butoxyethanol may result in the absorption of potentially harmful amounts leading to possible liver and kidney damage.

Inhalation Breathing mists may cause the following effects: . Respiratory irritation.

Ingestion Corrosive. Irritating to mouth, throat and stomach. Gastrointestinal irritation. Can burn mouth, throat, and stomach. May be harmful if swallowed. Absorption is possible. Kidney damage. Liver abnormalities.

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No | Weight % |
|---------------------|-----------|----------|
| Water | 7732-18-5 | 75-90 |
| 2-Butoxyethanol | 111-76-2 | 1-5 |
| Sodium hydroxide | 1310-73-2 | 1-5 |
| Ethanolamine | 141-43-5 | 1-5 |
| Sodium metasilicate | 6834-92-0 | 1-5 |

| | | |
|----------------|------------|-------|
| Cocamide DEA | 68603-42-9 | 1-5 |
| Ammonia | 7664-41-7 | 0.1-1 |
| Diethanolamine | 111-42-2 | 0.1-1 |

4. FIRST AID MEASURES

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical attention IMMEDIATELY.

Skin contact Flush area with water for 15 minutes. Seek medical attention immediately.

Ingestion Rinse mouth. Drink plenty of water. Preferably milk. Drink juices. Do Not induce vomiting. Seek medical attention immediately.

Inhalation Remove to fresh air. Seek medical attention if irritation persists.

5. FIRE FIGHTING MEASURES

Flash point °C > 93
Flash point °F > 200
Method Tag Closed Cup

Autoignition temperature °C No data available
Autoignition temperature °F No data available

Flammability Limits (% in Air)
Upper No data available
Lower No data available

Suitable extinguishing media
Water fog. Carbon dioxide (CO₂). Halon system. Foam.

Special protective equipment for firefighters
Wear self-contained breathing apparatus and protective suit . Wear a NIOSH approved alkali mist respirator.

Special Fire-Fighting Procedures
Avoid skin and eye contact. Avoid breathing of vapors. Wear head, hand and body protection.

Sensitivity to shock
No information available.

Sensitivity to static discharge
No information available.

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up
Ventilate area to maintain exposure below permissible exposure limits. Use caution as spill may create a slip hazard. Dispose of absorbent in accordance with local, state and federal regulations.

Clean-up methods - small spill

Flush into normal drainage with copious amounts of water (if local regulations permit). Do not drain to sewer without dilution.

Clean-up methods - large spill

Contain spill by diking or other methods. Hold for disposal or reuse.

7. HANDLING AND STORAGE**Handling**

Have water hose convenient in case of spill or leakage. Neutralize with acid.

Storage

Check daily for any leaks from containers, vessels, pumps, and piping.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| Chemical Name | OSHA PEL (TWA) | OSHA PEL (Ceiling) | ACGIH OEL (TWA) | ACGIH OEL (STEL) |
|---------------------|---------------------------------|--------------------|---------------------|------------------|
| Water | - | - | - | - |
| Cocamide DEA | - | - | - | - |
| Ethanolamine | 3 ppm 6 mg/m ³ | - | 3 ppm | 6 ppm |
| 2-Butoxyethanol | 50 ppm 240 mg/m ³ | - | 20 ppm | - |
| Sodium metasilicate | - | - | - | - |
| Sodium hydroxide | 2 mg/m ³ | - | - | - |
| Ammonia | 50 ppm 35 mg/m ³ | - | 25 ppm | 35 ppm |
| Diethanolamine | - | - | 1 mg/m ³ | - |

Ventilation and Environmental Controls

Adequate ventilation should be provided to keep exposure levels below current acceptable exposure limits

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

Respiratory protection

If the exposure limits are exceeded, a NIOSH/MSHA approved respirator is recommended. In case of insufficient ventilation wear suitable respiratory equipment. Wear a NIOSH approved alkali mist respirator.

Hand Protection

Protective gloves.

Eye protection

ANSI approved safety glasses or splash goggles are recommended.

Skin and body protection

Wear appropriate clothing to prevent skin contact.

Other Protective Equipment

A safety shower and eye wash station should be available for emergency use.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|----------------------|
| Form | Liquid |
| Color | Yellow |
| Odor | Solvent / Ammoniacal |
| Odor Threshold | Not Applicable |
| pH | 12.5 - 13.5 |
| Specific Gravity | 1.02 |
| Vapor pressure | Not Applicable |
| Vapor density | Not Applicable |
| Evaporation Rate | Not Applicable |
| Water solubility | Soluble in water |
| VOC Content | 6.77% |
| Partition Coefficient (n-octanol/water) | Not Applicable |
| Boiling point/range °C | > 100 |
| Boiling point/range °F | > 212 |
| Melting point/range °C | No data available |
| Melting point/range °F | No data available |
| Flash point °C | > 93 |
| Flash point °F | > 200 |

10. STABILITY AND REACTIVITY**Stability**

Stable.

Conditions to avoid

None known.

Incompatibility

Strong acids. Materials not resistant to alkalis.

Hazardous Decomposition Products

Ammonia. Carbon monoxide. Carbon dioxide. Nitrogen oxides (NOx).

Polymerization

Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION**Component Information**

| Chemical Name | LD50 (oral, rat) | LD50 (dermal, rat/rabbit) | LC50 (inhalation, rat) |
|-------------------------------|------------------|---------------------------|------------------------|
| Water 7732-18-5 | 90 mL/kg | - | - |
| Cocamide DEA 68603-42-9 | 12400 µL/kg | - | - |
| Ethanolamine 141-43-5 | 1720 mg/kg | 1 mL/kg 1025 mg/kg | - |
| 2-Butoxyethanol 111-76-2 | 470 mg/kg | 220 mg/kg 2270 mg/kg | 2.21 mg/L 450 ppm |
| Sodium metasilicate 6834-92-0 | 600 mg/kg | - | - |

| Chemical Name | LD50 (oral, rat) | LD50 (dermal ,rat/rab bit) | LC50 (inhalation, rat) |
|-------------------------------|-------------------------|-------------------------------------|------------------------|
| Sodium hydroxide 1310-73-2 | - | 1350 mg/kg | - |
| Ammonia 7664-41-7 | 350 mg/kg | - | 2000 ppm 5.1 mg/L |
| Diethanolamine 111-42-2 | 620 µL/kg | 7640 µL/kg | - |

Water Flea Data*Daphnia magna* EC50=65 mg/L (48 h)**Synergistic Products** None known**Potential health effects****Sensitization** None known**Chronic toxicity** See Section 2 .**Mutagenic effects** None known**Teratogenic effects** None known**Reproductive toxicity** None known

Target Organ Effects Prolonged skin contact with 2-butoxyethanol may result in the absorption of potentially harmful amounts leading to possible liver and kidney damage.

Carcinogenic effects See table below

| Chemical Name | ACGIH OEL - Carcinogens | IARC | NTP - Known Carcinogens | NTP - Suspected Human Carcinogens | OSHA RTK Carcinogens |
|------------------------|-------------------------------|------------|-------------------------------|--|----------------------------|
| Water | Not Listed | Not Listed | Not Listed | Not Listed | Not Listed |
| Cocamide DEA | Not Listed | Group 2B | Not Listed | Not Listed | Listed |
| Ethanolamine | Not Listed | Not Listed | Not Listed | Not Listed | Not Listed |
| 2- Butoxyethanol | A3 | Not Listed | Not Listed | Not Listed | Not Listed |
| Sodium metasilicate | Not Listed | Not Listed | Not Listed | Not Listed | Not Listed |
| Sodium hydroxide | Not Listed | Not Listed | Not Listed | Not Listed | Not Listed |
| Ammonia | Not Listed | Not Listed | Not Listed | Not Listed | Not Listed |
| Diethanolamine | A3 | Group 2B | Not Listed | Not Listed | Listed |

12. ECOLOGICAL INFORMATION2-Butoxyethanol**Water Flea Data***Daphnia magna* EC50=1698 - 1940 mg/L (24 h)*Daphnia magna* EC50>1000 mg/L (48 h)Ethanolamine**Microtox Data***Pseudomonas putida* EC50=110 mg/L (17 h)*Nitrosomonas* EC50=12200 mg/L (2 h)*Photobacterium phosphoreum* EC50=13.7 mg/L (30 min)

12. ECOLOGICAL INFORMATIONSodium metasilicate**Water Flea Data***Daphnia magna* EC50=216 mg/L (96 h)Cocamide DEA**Microtox Data***Pseudomonas putida* EC50=6000 mg/L (16 h)**Water Flea Data***Daphnia magna* EC50=4.2 mg/L (24 h)Ammonia**Microtox Data***Photobacterium phosphoreum* EC50=2.0 mg/L (5 min)**Water Flea Data***Daphnia magna* LC50=25.4 mg/L (48 h)Diethanolamine**Microtox Data***Photobacterium phosphoreum* EC50=73 mg/L (5 min)*Pseudomonas fluorescens* EC50>16 mg/L (16 h)*Pseudomonas putida* EC50>16 mg/L (16 h)**Water Flea Data***Daphnia magna* EC50=55 mg/L (48 h)**13. DISPOSAL CONSIDERATIONS****Disposal Information**

Carefully follow label instructions for disposal . Rinse empty container thoroughly with water before discarding. If allowed by local regulations, may be diluted and drained to a municipal sewer or wastewater treatment facility. Otherwise, send to licensed treatment and disposal facility.

Waste from residues / unused products

As supplied, this product is a RCRA Hazardous Waste . Dispose of all product, residues and clean-up materials in accordance with local, state, and federal regulations.

14. TRANSPORTATION INFORMATION**DOT**

UN1760 Corrosive liquids, n.o.s.(Ethanolamine/Sodium metasilicate), Class 8, PG II

Exception: (Corrosive PG II not more than 1.0L or 1.0kg) Consumer Commodity ORM-D

TDG

Not Regulated

15. REGULATORY INFORMATION

| Chemical Name | US EPA SARA 313 Emission Reporting |
|-----------------|------------------------------------|
| 2-Butoxyethanol | Listed |
| Ammonia | Listed |
| Diethanolamine | Listed |

| Chemical Name | CERCLA/SARA 302 TPQ |
|---------------|---------------------|
| Ammonia | \$500 lb, TPQ |

State Regulations

| Chemical Name | New Jersey - RTK | Pennsylvania - RTK | California Prop. 65 |
|---------------------|------------------|--------------------|---------------------|
| Water | Not Listed | Not Listed | Not Listed |
| Cocamide DEA | Not Listed | Not Listed | Carcinogen |
| Ethanolamine | Listed | Listed | Not Listed |
| 2-Butoxyethanol | Listed | Listed | Not Listed |
| Sodium metasilicate | Not Listed | Not Listed | Not Listed |
| Sodium hydroxide | Listed | Listed | Not Listed |
| Ammonia | Listed | Listed | Not Listed |
| Diethanolamine | Not Listed | Listed | Carcinogen |

International Inventories

| Chemical Name | EINECS | DSL | NDSL | TSCA |
|---------------------|--------|-----|------|------|
| Water | X | X | - | X |
| Cocamide DEA | X | X | - | X |
| Ethanolamine | X | X | - | X |
| 2-Butoxyethanol | X | X | - | X |
| Sodium metasilicate | X | X | - | X |
| Sodium hydroxide | X | X | - | X |
| Ammonia | X | X | - | X |
| Diethanolamine | X | X | - | X |

CPR

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all of the information required by the Controlled Product Regulations

16. OTHER INFORMATION**HMIS**

Health - 3
Flammability - 2
Physical Hazard - 1

Prepared By

V. Shargorodsky, Regulatory Affairs Engineer

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