

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.

Incompatability

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 μ L/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 - Carcinoge ns	IARC	NTP - Known Carcinoge ns	NTP - Suspected Human Carcinoge ns	OSHA RTK Carcinoge ns
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 INFORMATION**2-Butoxyethanol****Water Flea Data***Daphnia magna EC501698 - 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 INFORMATION**Sodium 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

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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.