

Safety Data Sheet
according to 1907/2006/EC (REACH),
1272/2008/EC (CLP), and GHS

Printing date 25.05.2012

Revision: 24.05.2012

1 Identification of the Substance/mixture and of the Company/Undertaking

1.1 Product identifierTrade name: **LUMINOX**

Application of the substance / the preparation: Cleaning material/ Detergent

1.3 Details of the supplier of the Safety Data Sheet**Manufacturer/Supplier:**

Alconox, Inc.
30 Glenn St., Suite 309
White Plains, NY 10603
Phone: 914-948-4040



Further information obtainable from: Product Safety Department

1.4 Emergency telephone number:

ChemTel Inc.
(800)255-3924, +1 (813)248-0585

2 Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS07

Skin Irrit. 2; H315: Causes skin irritation.

Eye Irrit. 2; H319: Causes serious eye irritation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xi; Irritant

R36/38: Irritating to eyes and skin.

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS07

Signal word: Warning**Hazard-determining components of labelling:**

glycollic acid

1-aminopropan-2-ol

Hazard statements:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

(Contd. on page 2)

Safety Data Sheet

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Trade name: LUMINOX

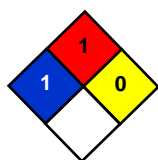
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Precautionary statements:

- P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P264 Wash thoroughly after handling.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P321 Specific treatment (see on this label).
 P362 Take off contaminated clothing and wash before reuse.
 P332+P313 If skin irritation occurs: Get medical advice/attention.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.

Hazard description:**WHMIS-symbols:**

D2B - Toxic material causing other toxic effects

**NFPA ratings (scale 0 - 4)**

Health = 1
 Fire = 1
 Reactivity = 0

HMIS-ratings (scale 0 - 4)

HEALTH	1
FIRE	1
REACTIVITY	0

Health = 1
 Fire = 1
 Reactivity = 0

2.3 Other hazards**Results of PBT and vPvB assessment**

PBT: Not applicable.

vPvB: Not applicable.

3 Composition/Information on Ingredients

3.2 Mixtures**Description:** Mixture of substances listed below with nonhazardous additions.**Dangerous components:**

CAS: 34590-94-8 EINECS: 252-104-2	(2-methoxymethylethoxy)propanol substance with a Community workplace exposure limit	25-50%
CAS: 5131-66-8 EINECS: 225-878-4 Index number: 603-052-00-8	3-butoxypropan-2-ol Xi R36/38 ----- Skin Irrit. 2, H315; Eye Irrit. 2, H319	2.5-10%
CAS: 78-96-6 EINECS: 201-162-7 Index number: 603-082-00-1	1-aminopropan-2-ol C R34 ----- Skin Corr. 1B, H314	2.5-10%

(Contd. on page 3)

Safety Data Sheet

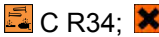



according to 1907/2006/EC (REACH),
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Printing date 25.05.2012

Revision: 23.05.2012

Trade name: LUMINOX

(Contd. of page 2)

CAS: 79-14-1 EINECS: 201-180-5	Coconut diethanolamide  C R34;  Xn R22  Skin Corr. 1B, H314  Acute Tox. 4, H302	2.5-10%
Additional information: For the wording of the listed risk phrases refer to section 16.		

4 First Aid Measures

4.1 Description of first aid measures

After inhalation:

Supply fresh air; consult doctor in case of complaints.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Do not induce vomiting; call for medical help immediately.

Rinse out mouth and then drink plenty of water.

4.2 Most important symptoms and effects, both acute and delayed:

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

5 Firefighting Measures

5.1 Extinguishing media:

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture:

No further relevant information available.

5.3 Advice for firefighters:

Protective equipment:

Wear fully protective suit.

Wear self-contained respiratory protective device.

6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:

Not required.

Particular danger of slipping on leaked/spilled product.

6.2 Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Clean the affected area carefully; suitable cleaners are:

Warm water

(Contd. on page 4)

Safety Data Sheet

according to 1907/2006/EC (REACH),
1272/2008/EC (CLP), and GHS

Printing date 25.05.2012

Revision: 23.05.2012

Trade name: LUMINOX

(Contd. of page 3)

6.4 Reference to other sections:

- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information

7 Handling and Storage

7.1 Precautions for safe handling:

No special precautions are necessary if used correctly.

Information about fire - and explosion protection:

No special measures required.

7.2 Conditions for safe storage, including any incompatibilities:**Storage:**

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep container tightly sealed.

7.3 Specific end use(s): No further relevant information available.

8 Exposure Controls/Personal Protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters**Ingredients with limit values that require monitoring at the workplace:****34590-94-8 (2-methoxymethylethoxy)propanol**

IOELV (EU)	308 mg/m ³ , 50 ppm Skin
PEL (USA)	600 mg/m ³ , 100 ppm Skin
REL (USA)	Short-term value: 900 mg/m ³ , 150 ppm Long-term value: 600 mg/m ³ , 100 ppm Skin
TLV (USA)	Short-term value: 909 mg/m ³ , 150 ppm Long-term value: 606 mg/m ³ , 100 ppm Skin
EL (Canada)	Short-term value: 150 ppm Long-term value: 100 ppm Skin
EV (Canada)	Short-term value: 910 mg/m ³ , 150 ppm Long-term value: 605 mg/m ³ , 100 ppm

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls:**Personal protective equipment:****General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.

Respiratory protection:

Not required.

(Contd. on page 5)

Safety Data Sheet
 according to 1907/2006/EC (REACH),
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Printing date 25.05.2012

Revision: 23.05.2012

Trade name: LUMINOX

(Contd. of page 4)

Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves:

Natural rubber, NR
 Butyl rubber, BR
 Nitrile rubber, NBR
 Neoprene gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Safety glasses

Goggles recommended during refilling

9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties:**General Information:****Appearance:**

Form:	Liquid
Colour:	Colourless
Odour:	Odourless
Odour threshold:	Not determined.

pH-value at 20°C:	7
Change in condition:	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100°C
Flash point:	>93.3°C
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	
Decomposition temperature:	Not determined.
Self-igniting:	Product is not selfigniting.

(Contd. on page 6)

Safety Data Sheet
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Printing date 25.05.2012

Revision: 23.05.2012

Trade name: LUMINOX

(Contd. of page 5)

Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure at 20°C:	23 hPa
Density at 20°C:	1.03 g/cm ³
Relative density:	Not determined.
Vapour density:	Not determined.
Evaporation rate:	Not determined.
Solubility in / Miscibility with water:	Fully miscible.
Segregation coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	~30 %
9.2 Other information:	No further relevant information available

10 Stability and Reactivity**10.1 Reactivity:****10.2 Chemical stability:****Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions:

Reacts with strong oxidizing agents.

Reacts with strong acids.

10.4 Conditions to avoid:

No further relevant information available.

10.5 Incompatible materials:

No further relevant information available.

10.6 Hazardous decomposition products:

Ammonia

Carbon monoxide and carbon dioxide

11 Toxicological Information**11.1 Information on toxicological effects:****Acute toxicity:****LD/LC50 values relevant for classification:****78-96-6 1-aminopropan-2-ol**

Oral LD50 2098 mg/kg (rat)

Dermal LD50 1640 mg/kg (rabbit)

79-14-1 glycollic acid

Oral LD50 1950 mg/kg (rat)

(Contd. on page 7)

Safety Data Sheet
 according to 1907/2006/EC (REACH),
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Trade name: LUMINOX

(Contd. of page 6)

Primary irritant effect:**On the skin:** Irritant to skin and mucous membranes.**On the eye:** Irritating effect.**Sensitization:** No sensitizing effects known.**Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

12 Ecological Information**12.1 Toxicity:****Aquatic toxicity:** No further relevant information available.**12.2 Persistence and degradability:** Biodegradable**12.3 Bioaccumulative potential:** Does not accumulate in organisms**12.4 Mobility in soil:** No further relevant information available.**Additional ecological information:****General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment:**PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Other adverse effects:** No further relevant information available.**13 Disposal Considerations****13.1 Waste treatment methods:****Recommendation:**

Smaller quantities can be disposed of with household waste.

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

The surfactant used in this product complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Uncleaned packaging:**Recommendation:** Disposal must be made according to official regulations.**Recommended cleansing agents:** Water, if necessary together with cleansing agents.**14 Transport Information****14.1 UN-Number:**

DOT, ADR, ADN, IMDG, IATA, ICAO: Not Regulated

14.2 UN proper shipping name:

DOT, ADR, ADN, IMDG, IATA, ICAO: Not Regulated

14.3 Transport hazard class(es):

DOT, ADR, ADN, IMDG, IATA, ICAO: Not Regulated

14.4 Packing group:

DOT, ADR, IMDG, IATA, ICAO: Not Regulated

(Contd. on page 8)

Safety Data Sheet
according to 1907/2006/EC (REACH),
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Trade name: LUMINOX

(Contd. of page 7)

14.5 Environmental hazards:**Marine pollutant:** No**14.6 Special precautions for user:** Not applicable.**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.**UN "Model Regulation":** Not Regulated**15 Regulatory Information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**
United States (USA):**SARA:****Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

TSCA (Toxic Substances Control Act):

All ingredients are listed.

Proposition 65 (California):**Chemicals known to cause cancer:**

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

Carcinogenic Categories:**EPA (Environmental Protection Agency):**

None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH):

None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health):

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients is listed.

Canada:**Canadian Domestic Substances List (DSL):**

All ingredients are listed.

Canadian Ingredient Disclosure list (limit 0.1%):

None of the ingredients is listed.

Canadian Ingredient Disclosure list (limit 1%):

None of the ingredients is listed.

34590-94-8 (2-methoxymethylethoxy)propanol

78-96-6 1-aminopropan-2-ol

79-14-1 glycollic acid

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

(Contd. on page 9)

Safety Data Sheet
according to 1907/2006/EC (REACH),
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(Contd. of page 8)

16 Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases:

- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.

- R22 Harmful if swallowed.
- R34 Causes burns.
- R36/38 Irritating to eyes and skin.

Abbreviations and Acronyms

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- ACGIH: American Conference of Governmental Industrial Hygienists
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- WHMIS: Workplace Hazardous Materials Information System (Canada)
- VOC: Volatile Organic Compounds (USA, EU)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent