

Safety Data Sheet

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

Effective date: 31/12/2014

Revision: 05/12/2015

LUMINOX

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

1.1 Product identifier

Trade name: **LUMINOX**

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

1.2 Relevant identified uses of the substance or mixture and uses advised against:

No additional information available.

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. 2A; H319: Causes serious eye irritation.*

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:

Propylene glycol n-butyl ether

Hazard statements:

H315: Causes skin irritation.

H319: Causes serious eye irritation.

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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.

Other Hazard description:**WHMIS-classification and 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 Chemical characterization:** Mixture**Description:** Hazardous ingredients of mixture listed below.

Identifying Nos.	Description	Wt. %
CAS: 34590-94-8 EINECS: 252-104-2	Dipropylene Glycol Monomethyl Ether	25 - 50%
CAS: 5131-66-8 EINECS: 225-878-4	Propylene glycol n-butyl ether	2.5 - 10%
CAS: 78-96-6 EINECS: 201-162-7	1-aminopropan-2-ol	2.5 - 10%
CAS: 77-92-9 EINECS: 201-069-1	Citric Acid	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****General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation:

Supply fresh air; consult doctor in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

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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 additional information available.

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

No additional 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 additional information available.

5.3 Advice for firefighters:**Protective equipment:**

Wear self-contained respiratory protective device.
Wear fully protective suit.

6 Accidental Release Measures**6.1 Personal precautions, protective equipment and emergency procedures:**

Product forms slippery surface when combined with water.

6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.
Dilute with plenty of 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

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 additional information available.

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8 Exposure Controls/Personal Protection**8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:** Not required.

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.**Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product. Selection of the glove material should be based on the penetration time, rates of diffusion and the degradation of the glove material.

Material of gloves:

The selection of a suitable gloves does not only depend on the material, but also on the quality, and varies from manufacturer to manufacturer.

Penetration time of glove material:

The exact break through time has to be determined by the manufacturer of the protective gloves. DO NOT exceed the breakthrough time set by the Manufacturer.

For long term contact, gloves made of the following materials are considered suitable:

- Butyl rubber, BR
- Nitrile rubber, NBR
- Natural rubber (NR)
- Neoprene gloves

Eye protection:

Safety glasses.
Goggles recommended during refilling.

Body protection: Protective work clothing

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9 Physical and Chemical Properties**9.1 Information on basic physical and chemical properties:****General Information:****Appearance:**

Form:	Liquid
Color:	Colorless
Odor:	Odorless
Odor threshold:	Not determined.
pH-value:	7

Change in condition:

Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	100 °C

Flash point: >93.3°C**Flammability (solid, gaseous):** Not applicable.**Ignition temperature:** Not determined.**Decomposition temperature:** Not determined.**Self-igniting:** Product is not selfigniting.**Danger of explosion:** Product does not present an explosion hazard.**Explosion limits:**

Lower:	Not determined.
Upper:	Not determined.

Vapor pressure @ 20 °C: 23 hPa**Density @ 20 °C:** 1.03 g/cm³**Relative density:** Not determined.**Vapor density:** Not applicable.**Evaporation rate:** Not applicable.**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 %**Solids content:** Not determined.**9.2 Other information:** No additional 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 additional information available.**10.5 Incompatible materials:** No additional information available.

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10.6 Hazardous decomposition products:

Carbon monoxide and carbon dioxide.
Ammonia.

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	LD ₅₀	2098 mg/kg (rat)
Dermal	LD ₅₀	1640 mg/kg (rabbit)
79-14-1 glycollic acid		
Oral	LD ₅₀	1950 mg/kg (rat)

Primary irritant effect:**On the skin:** Irritating 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 additional information available.**12.2 Persistence and degradability:** Biodegradable.**12.3 Bioaccumulative potential:** Does not accumulate in organisms.**12.4 Mobility in soil:** No additional 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 additional 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, together with cleansing agents, if necessary.

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14 Transport Information

- 14.1 UN-Number:**
 DOT, ADR, ADN, IMDG, IATA: Not Regulated
- 14.2 UN proper shipping name:**
 DOT, ADR, IMDG, IATA: Not Regulated
- 14.3 Transport hazard class(es):**
 DOT, ADR, IMDG, IATA:
 Class: Not Regulated
 Label: -
- 14.4 Packing group:**
 DOT, ADR, IMDG, IATA: Not Regulated
- 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 ingredient is listed.

Section 313 (Specific toxic chemical listings): None of the ingredient is listed.

TSCA (Toxic Substances Control Act): All ingredients are listed.

Proposition 65 (California):

Chemicals known to cause cancer: None of the ingredient is listed.

Chemicals known to cause reproductive toxicity for females: None of the ingredient is listed.

Chemicals known to cause reproductive toxicity for males: None of the ingredient is listed.

Chemicals known to cause developmental toxicity: None of the ingredient is listed.

Carcinogenic Categories:

EPA (Environmental Protection Agency): None of the ingredient is listed.

TLV (Threshold Limit Value established by ACGIH): None of the ingredient is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health): None of the ingredient is listed.

OSHA-Ca (Occupational Safety & Health Administration): None of the ingredient is listed.

Canadá:

Canadian Domestic Substances List (DSL): All ingredients are listed.

Canadian Ingredient Disclosure list (limit 0.1%): None of the ingredient is listed.

Canadian Ingredient Disclosure list (limit 1%):

34590-94-8 (2-methoxymethylethoxy)propanol

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

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

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LUMINOX**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:

H315: Causes skin irritation.

H319: Causes serious eye irritation.

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: Work-place Hazardous Materials Information System (Canada).

VOC: Volatile Organic Compounds (USA, EU).

LC50: Lethal concentration, 50 percent.

LD50: Lethal dose, 50 percent.

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