

## SAFETY DATA SHEETS

**This SDS packet was issued with item:**

078673212

N/A

**Safety Data Sheet**

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

**Effective date:** 12.09.2015**Revision :** 12.10.2015**Trade Name:** Luminox**1 Identification of the substance/mixture and of the supplier****1.1 Product identifier****Trade Name:** Luminox**Synonyms:****Product number:** Luminox**1.2 Application of the substance / the mixture :** Cleaning material/Detergent**1.3 Details of the supplier of the Safety Data Sheet****Manufacturer**Alconox, Inc.  
30 Glenn Street  
White Plains, NY 10603  
1-914-948-4040**Supplier**

Not Applicable

**Emergency telephone number:****ChemTel Inc**

North America: 1-800-255-3924

International: 01-813-248-0585

**2 Hazards identification****2.1 Classification of the substance or mixture:**

In compliance with EC regulation No. 1272/2008, 29CFR1910/1200 and GHS Rev. 3 and amendments.

**Hazard-determining components of labeling:**

1-aminopropan-2-ol

Citric acid

propylene glycol monobutyl ether

**2.2 Label elements:**

Eye irritation, category 2A.

Skin irritation, category 2.

**Hazard pictograms:****Signal word:** Warning**Hazard statements:**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

**Precautionary statements:**

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 If on skin: Wash with soap and water.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P501 Dispose of contents and container as instructed in Section 13.

**Additional information:** None.**Hazard description**

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according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

**Effective date:** 12.09.2015**Revision :** 12.10.2015**Trade Name:** Luminox**Hazards Not Otherwise Classified (HNOC):** None**Information concerning particular hazards for humans 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 EC regulation No. 1272/2008, 29CFR1910/1200 and GHS Rev. 3 and amendments, and extended by company and literature data. The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

**3 Composition/information on ingredients****3.1 Chemical characterization :** None**3.2 Description :** None**3.3 Hazardous components (percentages by weight)**

Identification	Chemical Name	Classification	Wt. %
<b>CAS number:</b> 77-92-9	Citric acid	Eye Irrit. 2; H319	2.5-10
<b>CAS number:</b> 78-96-6	1-aminopropan-2-ol	Acute Tox. 4; H313 Skin Corr. 1B; H314 Eye Dam. 1; H318	2.5-10
<b>CAS number:</b> 5131-66-8	Propylene Glycol Monobutyl Ether	Skin Irrit. 2 ; H315 Eye Irrit. 2; H319	2.5-10
<b>CAS number:</b> 34590-94-8	Dipropylene Glycol Monomethyl Ether		25-50

**3.4 Additional Information :** None.**4 First aid measures****4.1 Description of first aid measures****General information:** None.**After inhalation:**

Maintain an unobstructed airway.

Loosen clothing as necessary and position individual in a comfortable position.

**After skin contact:**

Wash affected area with soap and water.

Seek medical attention if symptoms develop or persist.

**After eye contact:**

Rinse/flush exposed eye(s) gently using water for 15-20 minutes.

Remove contact lens(es) if able to do so during rinsing.

Seek medical attention if irritation persists or if concerned.

**After swallowing:**

Rinse mouth thoroughly.

Seek medical attention if irritation, discomfort, or vomiting persists.

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according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

**Effective date:** 12.09.2015**Revision :** 12.10.2015**Trade Name:** Luminox**4.2 Most important symptoms and effects, both acute and delayed**

None

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

No additional information.

**5 Firefighting measures****5.1 Extinguishing media****Suitable extinguishing agents:**

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition.

**For safety reasons unsuitable extinguishing agents :** None**5.2 Special hazards arising from the substance or mixture :**

Thermal decomposition can lead to release of irritating gases and vapors.

**5.3 Advice for firefighters****Protective equipment:**Wear protective eye wear, gloves and clothing.  
Refer to Section 8.**5.4 Additional information :**Avoid inhaling gases, fumes, dust, mist, vapor and aerosols.  
Avoid contact with skin, eyes and clothing.**6 Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures :**Ensure adequate ventilation.  
Ensure air handling systems are operational.**6.2 Environmental precautions :**Should not be released into the environment.  
Prevent from reaching drains, sewer or waterway.**6.3 Methods and material for containment and cleaning up :**

Wear protective eye wear, gloves and clothing.

**6.4 Reference to other sections :** None**7 Handling and storage****7.1 Precautions for safe handling :**Avoid breathing mist or vapor.  
Do not eat, drink, smoke or use personal products when handling chemical substances.**7.2 Conditions for safe storage, including any incompatibilities :**

Store in a cool, well-ventilated area.

**7.3 Specific end use(s):**

No additional information.

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according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

**Effective date:** 12.09.2015**Revision :** 12.10.2015**Trade Name:** Luminox**8 Exposure controls/personal protection****8.1 Control parameters :**

34590-94-8, Dipropylene Glycol Monomethyl Ether, ACGIH STEL 150 ppm.  
 34590-94-8, Dipropylene Glycol Monomethyl Ether, ACGIH TWA 100.0 ppm.  
 34590-94-8, Dipropylene Glycol Monomethyl Ether, OSHA TWA 100. ppm 600 mg/m3.  
 34590-94-8, Dipropylene Glycol Monomethyl Ether, NIOSH ST 150. ppm 900. mg/m3.

**8.2 Exposure controls****Appropriate engineering controls:**

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

**Respiratory protection:**

Not needed under normal conditions.

**Protection of skin:**

Select glove material impermeable and resistant to the substance.

**Eye protection:**

Safety goggles or glasses, or appropriate eye protection.

**General hygienic measures:**

Wash hands before breaks and at the end of work.  
 Avoid contact with skin, eyes and clothing.

**9 Physical and chemical properties**

<b>Appearance (physical state, color):</b>	Clear liquid	<b>Explosion limit lower: Explosion limit upper:</b>	Not determined or not available. Not determined or not available.
<b>Odor:</b>	Not determined or not available.	<b>Vapor pressure at 20°C:</b>	Not determined or not available.
<b>Odor threshold:</b>	Not determined or not available.	<b>Vapor density:</b>	Not determined or not available.
<b>pH-value:</b>	6.6 as is. 7.5 (aqueous solution )	<b>Relative density:</b>	Not determined or not available.
<b>Melting/Freezing point:</b>	Not determined or not available.	<b>Solubilities:</b>	Not determined or not available.
<b>Boiling point/Boiling range:</b>	Not determined or not available.	<b>Partition coefficient (n-octanol/water):</b>	Not determined or not available.
<b>Flash point (closed cup):</b>	Not determined or not available.	<b>Auto/Self-ignition temperature:</b>	Not determined or not available.
<b>Evaporation rate:</b>	Not determined or not available.	<b>Decomposition temperature:</b>	Not determined or not available.

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**Effective date:** 12.09.2015**Revision :** 12.10.2015**Trade Name:** Luminox

<b>Flammability (solid, gaseous):</b>	Not determined or not available.	<b>Viscosity:</b>	a. Kinematic: Not determined or not available. b. Dynamic: Not determined or not available.
<b>Density at 20°C:</b>	Not determined or not available.		

**10 Stability and reactivity****10.1 Reactivity :** None**10.2 Chemical stability :** None**10.3 Possibility hazardous reactions :** None**10.4 Conditions to avoid :** None**10.5 Incompatible materials :** None**10.6 Hazardous decomposition products :** None**11 Toxicological information****11.1 Information on toxicological effects :****Acute Toxicity:****Oral:**

: LD50 &gt; 5000 mg/kg oral rat - Product .

**Chronic Toxicity:** No additional information.**Skin corrosion/irritation:**

1-aminopropan-2-ol: Rabbit: mild skin irritation - 24h .

**Serious eye damage/irritation:**

Dipropylene Glycol Monomethyl Ether: Rabbit: mild eye irritation - 24h .

1-aminopropan-2-ol: Rabbit: Severe eye irritation - 24h .

**Respiratory or skin sensitization:** No additional information.**Carcinogenicity:** No additional information.**IARC (International Agency for Research on Cancer):** None of the ingredients are listed.**NTP (National Toxicology Program):** None of the ingredients are listed.**Germ cell mutagenicity:** No additional information.**Reproductive toxicity:** No additional information.**STOT-single and repeated exposure:** No additional information.**Additional toxicological information:** No additional information.**12 Ecological information****12.1 Toxicity:**

**Safety Data Sheet**

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

**Effective date:** 12.09.2015**Revision :** 12.10.2015**Trade Name:** Luminox

Citric acid: Aquatic invertebrates, Daphnia magna (Water flea) - 1,535 mg/l - 24 h.

Citric acid: Fish, Leuciscus idus melanotus - 440 mg/l - 48 h.

Dipropylene Glycol Monomethyl Ether: Aquatic invertebrates, EC50 - Daphnia magna (Water flea) - 1,919 mg/l - 48 h.

Dipropylene Glycol Monomethyl Ether: Fish, LC50 - Pimephales promelas (fathead minnow) - &gt; 10,000 mg/l - 96 h.

1-aminopropan-2-ol: Fish, LC50 - Carassius auratus (goldfish) - 210 mg/l - 96 h.

**12.2 Persistence and degradability:** No additional information.**12.3 Bioaccumulative potential:** No additional information.**12.4 Mobility in soil:** No additional information.**General notes:** No additional information.**12.5 Results of PBT and vPvB assessment:****PBT:** No additional information.**vPvB:** No additional information.**12.6 Other adverse effects:** No additional information.**13 Disposal considerations****13.1 Waste treatment methods (consult local, regional and national authorities for proper disposal)****Relevant Information:**

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities. (US 40CFR262.11).

**14 Transport information****14.1 UN Number:**

ADR, ADN, DOT, IMDG, IATA

None

**14.2 UN Proper shipping name:**

ADR, ADN, DOT, IMDG, IATA

None

**14.3 Transport hazard classes:**

ADR, ADN, DOT, IMDG, IATA

**Class:** None**Label:** None**LTD. QTY:** None**US DOT****Limited Quantity Exception:**

None

**Bulk:****RQ (if applicable):** None**Proper shipping Name:** None**Hazard Class:** None**Packing Group:** None**Marine Pollutant (if applicable):** No additional information.**Non Bulk:****RQ (if applicable):** None**Proper shipping Name:** None**Hazard Class:** None**Packing Group:** None**Marine Pollutant (if applicable):** No additional information.

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**Effective date:** 12.09.2015**Revision :** 12.10.2015

<b>Trade Name:</b> Luminox	
<b>Comments:</b> None	<b>Comments:</b> None
<b>14.4 Packing group:</b> ADR, ADN, DOT, IMDG, IATA	None
<b>14.5 Environmental hazards :</b>	None
<b>14.6 Special precautions for user:</b>	None
<b>Danger code (Kemler):</b>	None
<b>EMS number:</b>	None
<b>Segregation groups:</b>	None
<b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b> Not applicable.	
<b>14.8 Transport/Additional information:</b>	
<b>Transport category:</b>	None
<b>Tunnel restriction code:</b>	None
<b>UN "Model Regulation":</b>	None

**15 Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.**  
**North American****SARA****Section 313 (specific toxic chemical listings):** None of the ingredients are listed.**Section 302 (extremely hazardous substances):** None of the ingredients are listed.**CERCLA (Comprehensive Environmental Response, Clean up and Liability Act) Reportable****Spill Quantity:** None of the ingredients are listed.**TSCA (Toxic Substances Control Act):****Inventory:** All ingredients are listed.**Rules and Orders:** Not applicable.**Proposition 65 (California):****Chemicals known to cause cancer:** None of the ingredients are listed.**Chemicals known to cause reproductive toxicity for females:** None of the ingredients are listed.**Chemicals known to cause reproductive toxicity for males:** None of the ingredients are listed.**Chemicals known to cause developmental toxicity:** None of the ingredients are listed.**Canadian****Canadian Domestic Substances List (DSL):**

All ingredients are listed.

**EU****REACH Article 57 (SVHC):** None of the ingredients are listed.



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**Effective date:** 12.09.2015**Revision :** 12.10.2015**Trade Name:** Luminox**Germany MAK:** Not classified.**Asia Pacific****Australia****Australian Inventory of Chemical Substances (AICS):** All ingredients are listed.**China****Inventory of Existing Chemical Substances in China (IECSC):** All ingredients are listed.**Japan****Inventory of Existing and New Chemical Substances (ENCS):** All ingredients are listed.**Korea****Existing Chemicals List (ECL):** All ingredients are listed.**New Zealand****New Zealand Inventory of Chemicals (NZOIC):** All ingredients are listed.**Philippines****Philippine Inventory of Chemicals and Chemical Substances (PICCS):** All ingredients are listed.**Taiwan****Taiwan Chemical Substance Inventory (TSCI):** All ingredients are listed.**16 Other information****Abbreviations and Acronyms:** None**Summary of Phrases****Hazard statements:**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

**Precautionary statements:**

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 If on skin: Wash with soap and water.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P501 Dispose of contents and container as instructed in Section 13.

**Manufacturer Statement:**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**NFPA:** 1-0-0**HMIS:** 1-0-0

**Safety Data Sheet**

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**Effective date:** 12.09.2015**Revision :** 12.10.2015**Trade Name:** Luminox**I Identification of the substance/mixture and of the supplier****I.1 Product identifier****Trade Name:** Luminox**Synonyms:****Product number:** Luminox**I.2 Application of the substance / the mixture :** Cleaning material/Detergent**I.3 Details of the supplier of the Safety Data Sheet****Manufacturer**Alconox, Inc.  
30 Glenn Street  
White Plains, NY 10603  
1-914-948-4040**Supplier**

Not Applicable

**Emergency telephone number:****ChemTel Inc**North America: 1-800-255-3924  
International: 01-813-248-0585**2 Hazards identification****2.1 Classification of the substance or mixture:**

In compliance with EC regulation No. 1272/2008, 29CFR1910/1200 and GHS Rev. 3 and amendments.

**Hazard-determining components of labeling:**1-aminopropan-2-ol  
Citric acid  
propylene glycol monobutyl ether**2.2 Label elements:**Eye irritation, category 2A.  
Skin irritation, category 2.**Hazard pictograms:****Signal word:** Warning**Hazard statements:**H315 Causes skin irritation.  
H319 Causes serious eye irritation.**Precautionary statements:**P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 If on skin: Wash with soap and water.  
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P501 Dispose of contents and container as instructed in Section 13.**Additional information:** None.**Hazard description**F7303 - Created by Global Safety Management, 1-813-435-5161 - [www.GSMSDS.com](http://www.GSMSDS.com)Obtained by Global Safety Management, 1-813-435-5161 - [www.GSMSDS.com](http://www.GSMSDS.com)

**Safety Data Sheet**

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

**Effective date:** 12.09.2015**Revision :** 12.10.2015**Trade Name:** Luminox**Hazards Not Otherwise Classified (HNOC):** None**Information concerning particular hazards for humans 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 EC regulation No. 1272/2008, 29CFR1910/1200 and GHS Rev. 3 and amendments, and extended by company and literature data. The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

**3 Composition/information on ingredients****3.1 Chemical characterization :** None**3.2 Description :** None**3.3 Hazardous components (percentages by weight)**

Identification	Chemical Name	Classification	Wt. %
<b>CAS number:</b> 77-92-9	Citric acid	Eye Irrit. 2; H319	2.5-10
<b>CAS number:</b> 78-96-6	1-aminopropan-2-ol	Acute Tox. 4; H313 Skin Corr. 1B; H314 Eye Dam. 1; H318	2.5-10
<b>CAS number:</b> 5131-66-8	Propylene Glycol Monobutyl Ether	Skin Irrit. 2 ; H315 Eye Irrit. 2; H319	2.5-10
<b>CAS number:</b> 34590-94-8	Dipropylene Glycol Monomethyl Ether		25-50

**3.4 Additional Information :** None.**4 First aid measures****4.1 Description of first aid measures****General information:** None.**After inhalation:**

Maintain an unobstructed airway.

Loosen clothing as necessary and position individual in a comfortable position.

**After skin contact:**

Wash affected area with soap and water.

Seek medical attention if symptoms develop or persist.

**After eye contact:**

Rinse/flush exposed eye(s) gently using water for 15-20 minutes.

Remove contact lens(es) if able to do so during rinsing.

Seek medical attention if irritation persists or if concerned.

**After swallowing:**

Rinse mouth thoroughly.

Seek medical attention if irritation, discomfort, or vomiting persists.

**Safety Data Sheet**

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

**Effective date:** 12.09.2015**Revision :** 12.10.2015**Trade Name:** Luminox**4.2 Most important symptoms and effects, both acute and delayed**

None

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

No additional information.

**5 Firefighting measures****5.1 Extinguishing media****Suitable extinguishing agents:**

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition.

**For safety reasons unsuitable extinguishing agents :** None**5.2 Special hazards arising from the substance or mixture :**

Thermal decomposition can lead to release of irritating gases and vapors.

**5.3 Advice for firefighters****Protective equipment:**Wear protective eye wear, gloves and clothing.  
Refer to Section 8.**5.4 Additional information :**Avoid inhaling gases, fumes, dust, mist, vapor and aerosols.  
Avoid contact with skin, eyes and clothing.**6 Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures :**Ensure adequate ventilation.  
Ensure air handling systems are operational.**6.2 Environmental precautions :**Should not be released into the environment.  
Prevent from reaching drains, sewer or waterway.**6.3 Methods and material for containment and cleaning up :**

Wear protective eye wear, gloves and clothing.

**6.4 Reference to other sections :** None**7 Handling and storage****7.1 Precautions for safe handling :**Avoid breathing mist or vapor.  
Do not eat, drink, smoke or use personal products when handling chemical substances.**7.2 Conditions for safe storage, including any incompatibilities :**

Store in a cool, well-ventilated area.

**7.3 Specific end use(s):**

No additional information.

## Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

**Effective date:** 12.09.2015

**Revision :** 12.10.2015

**Trade Name:** Luminox

### 8 Exposure controls/personal protection



#### 8.1 Control parameters :

34590-94-8, Dipropylene Glycol Monomethyl Ether, ACGIH STEL 150 ppm.  
 34590-94-8, Dipropylene Glycol Monomethyl Ether, ACGIH TWA 100.0 ppm.  
 34590-94-8, Dipropylene Glycol Monomethyl Ether, OSHA TWA 100. ppm 600 mg/m3.  
 34590-94-8, Dipropylene Glycol Monomethyl Ether, NIOSH ST 150. ppm 900. mg/m3.

#### 8.2 Exposure controls

##### Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

##### Respiratory protection:

Not needed under normal conditions.

##### Protection of skin:

Select glove material impermeable and resistant to the substance.

##### Eye protection:

Safety goggles or glasses, or appropriate eye protection.

##### General hygienic measures:

Wash hands before breaks and at the end of work.  
 Avoid contact with skin, eyes and clothing.

### 9 Physical and chemical properties

<b>Appearance (physical state, color):</b>	Clear liquid	<b>Explosion limit lower:</b> <b>Explosion limit upper:</b>	Not determined or not available. Not determined or not available.
<b>Odor:</b>	Not determined or not available.	<b>Vapor pressure at 20°C:</b>	Not determined or not available.
<b>Odor threshold:</b>	Not determined or not available.	<b>Vapor density:</b>	Not determined or not available.
<b>pH-value:</b>	6.6 as is. 7.5 (aqueous solution )	<b>Relative density:</b>	Not determined or not available.
<b>Melting/Freezing point:</b>	Not determined or not available.	<b>Solubilities:</b>	Not determined or not available.
<b>Boiling point/Boiling range:</b>	Not determined or not available.	<b>Partition coefficient (n-octanol/water):</b>	Not determined or not available.
<b>Flash point (closed cup):</b>	Not determined or not available.	<b>Auto/Self-ignition temperature:</b>	Not determined or not available.
<b>Evaporation rate:</b>	Not determined or not available.	<b>Decomposition temperature:</b>	Not determined or not available.

**Safety Data Sheet**

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

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<b>Flammability (solid, gaseous):</b>	Not determined or not available.	<b>Viscosity:</b>	a. Kinematic: Not determined or not available. b. Dynamic: Not determined or not available.
<b>Density at 20°C:</b>	Not determined or not available.		

**I0 Stability and reactivity****I0.1 Reactivity :** None**I0.2 Chemical stability :** None**I0.3 Possibility hazardous reactions :** None**I0.4 Conditions to avoid :** None**I0.5 Incompatible materials :** None**I0.6 Hazardous decomposition products :** None**I1 Toxicological information****I1.1 Information on toxicological effects :****Acute Toxicity:****Oral:**

: LD50 &gt; 5000 mg/kg oral rat - Product .

**Chronic Toxicity:** No additional information.**Skin corrosion/irritation:**

1-aminopropan-2-ol: Rabbit: mild skin irritation - 24h .

**Serious eye damage/irritation:**

Dipropylene Glycol Monomethyl Ether: Rabbit: mild eye irritation - 24h .

1-aminopropan-2-ol: Rabbit: Severe eye Irritation - 24h .

**Respiratory or skin sensitization:** No additional information.**Carcinogenicity:** No additional information.**IARC (International Agency for Research on Cancer):** None of the ingredients are listed.**NTP (National Toxicology Program):** None of the ingredients are listed.**Germ cell mutagenicity:** No additional information.**Reproductive toxicity:** No additional information.**STOT-single and repeated exposure:** No additional information.**Additional toxicological information:** No additional information.**I2 Ecological information****I2.1 Toxicity:**

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according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

**Effective date:** 12.09.2015**Revision :** 12.10.2015**Trade Name:** Luminox

Citric acid: Aquatic invertebrates, Daphnia magna (Water flea) - 1,535 mg/l - 24 h.

Citric acid: Fish, Leuciscus idus melanotus - 440 mg/l - 48h.

Dipropylene Glycol Monomethyl Ether: Aquatic invertebrates, EC50 - Daphnia magna (Water flea) - 1,919 mg/l - 48h.

Dipropylene Glycol Monomethyl Ether: Fish, LC50 - Pimephales promelas (fathead minnow) - &gt; 10,000 mg/l - 96h.

1-aminopropan-2-ol: Fish, LC50 - Carassius auratus (goldfish) - 210 mg/l - 96 h.

**12.2 Persistence and degradability:** No additional information.**12.3 Bioaccumulative potential:** No additional information.**12.4 Mobility in soil:** No additional information.**General notes:** No additional information.**12.5 Results of PBT and vPvB assessment:****PBT:** No additional information.**vPvB:** No additional information.**12.6 Other adverse effects:** No additional information.**13 Disposal considerations****13.1 Waste treatment methods (consult local, regional and national authorities for proper disposal)****Relevant Information:**

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities. (US 40CFR262.11).

**14 Transport information**

<b>14.1 UN Number:</b>	None
ADR, ADN, DOT, IMDG, IATA	
<b>14.2 UN Proper shipping name:</b>	None
ADR, ADN, DOT, IMDG, IATA	
<b>14.3 Transport hazard classes:</b>	
ADR, ADN, DOT, IMDG, IATA	
<b>Class:</b>	None
<b>Label:</b>	None
<b>LTD.QTY:</b>	None
<hr/>	
<b>US DOT</b>	
<b>Limited Quantity Exception:</b>	None
<b>Bulk:</b>	<b>Non Bulk:</b>
<b>RQ (if applicable):</b> None	<b>RQ (if applicable):</b> None
<b>Proper shipping Name:</b> None	<b>Proper shipping Name:</b> None
<b>Hazard Class:</b> None	<b>Hazard Class:</b> None
<b>Packing Group:</b> None	<b>Packing Group:</b> None
<b>Marine Pollutant (if applicable):</b> No additional information.	<b>Marine Pollutant (if applicable):</b> No additional information.

**Safety Data Sheet**

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

**Effective date:** 12.09.2015**Revision :** 12.10.2015**Trade Name:** Luminox

<b>Comments:</b> None	<b>Comments:</b> None
<b>I4.4 Packing group:</b> ADR, ADN, DOT, IMDG, IATA	None
<b>I4.5 Environmental hazards :</b>	None
<b>I4.6 Special precautions for user:</b> <b>Danger code (Kemler):</b> <b>EMS number:</b> <b>Segregation groups:</b>	None None None None
<b>I4.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b>	Not applicable.
<b>I4.8 Transport/Additional information:</b>  <b>Transport category:</b> <b>Tunnel restriction code:</b> <b>UN "Model Regulation":</b>	  None None None

**I5 Regulatory information****I5.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.****North American**

<b>SARA</b> <b>Section 313 (specific toxic chemical listings):</b> None of the ingredients are listed. <b>Section 302 (extremely hazardous substances):</b> None of the ingredients are listed.
<b>CERCLA (Comprehensive Environmental Response, Clean up and Liability Act) Reportable</b> <b>Spill Quantity:</b> None of the ingredients are listed.
<b>TSCA (Toxic Substances Control Act):</b> <b>Inventory:</b> All ingredients are listed. <b>Rules and Orders:</b> Not applicable.
<b>Proposition 65 (California):</b> <b>Chemicals known to cause cancer:</b> None of the ingredients are listed. <b>Chemicals known to cause reproductive toxicity for females:</b> None of the ingredients are listed. <b>Chemicals known to cause reproductive toxicity for males:</b> None of the ingredients are listed. <b>Chemicals known to cause developmental toxicity:</b> None of the ingredients are listed.

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

All ingredients are listed.

**EU****REACH Article 57 (SVHC):** None of the ingredients are listed.



**Safety Data Sheet**

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

**Effective date:** 12.09.2015**Revision :** 12.10.2015**Trade Name:** Luminox**Germany MAK:** Not classified.**Asia Pacific****Australia****Australian Inventory of Chemical Substances (AICS):** All ingredients are listed.**China****Inventory of Existing Chemical Substances in China (IECSC):** All ingredients are listed.**Japan****Inventory of Existing and New Chemical Substances (ENCS):** All ingredients are listed.**Korea****Existing Chemicals List (ECL):** All ingredients are listed.**New Zealand****New Zealand Inventory of Chemicals (NZOIC):** All ingredients are listed.**Philippines****Philippine Inventory of Chemicals and Chemical Substances (PICCS):** All ingredients are listed.**Taiwan****Taiwan Chemical Substance Inventory (TSCI):** All ingredients are listed.**16 Other information****Abbreviations and Acronyms:** None**Summary of Phrases****Hazard statements:**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

**Precautionary statements:**

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 If on skin: Wash with soap and water.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P501 Dispose of contents and container as instructed in Section 13.

**Manufacturer Statement:**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**NFPA:** 1-0-0**HMIS:** 1-0-0