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 identifier
Trade name: LIQUINOX
Application of the substance / the preparation: Hand 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
R36/37/38: 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:
Benzenesulfonic Acid, Sodium Salts

Hazard statements:
H315 Causes skin irritation.
H319 Causes serious eye irritation.

(Contd. on page 2)
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 = 0
Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = 1
Fire = 0
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.

<table>
<thead>
<tr>
<th>CAS: 68081-81-2</th>
<th>Benzenesulfonic Acid, Sodium Salts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xi R38-41</td>
<td>Eye Dam. 1, H318</td>
</tr>
<tr>
<td></td>
<td>Skin Irrit. 2, H315</td>
</tr>
</tbody>
</table>

| CAS: 1300-72-7  |
| EINECS: 215-090-9 | Sodium xylenesulphonate |
|-----------------|Xi R36/37/38      |
|                 | Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 |

| CAS: 84133-50-6 | Alcohol Ethoxylate |
|-----------------|Xi R36/38        |
|                 | Skin Irrit. 2, H315 |
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Trade name: LIQUINOX

<table>
<thead>
<tr>
<th>CAS:</th>
<th>EINECS:</th>
<th>Substance</th>
<th>D &amp; H Coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>68603-42-9</td>
<td>271-657-0</td>
<td>Coconut diethanolamide</td>
<td>Xi R36/38</td>
</tr>
<tr>
<td>2.5-10%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS:</td>
<td>EINECS:</td>
<td>Ethylenediaminetetraacetic acid, tripotassium salt</td>
<td>Xi R36/37/38</td>
</tr>
<tr>
<td>17572-87-3</td>
<td>241-543-5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.5-10%</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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:
Take affected persons out into the fresh air.

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.
A person vomiting while laying on their back should be turned onto their side.

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

6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:
Ensure adequate ventilation
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.
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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 measures required.

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: None.

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:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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/ 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

(Contd. on page 5)
Material of gloves:
   Natural rubber, NR
   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

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### 9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Information</td>
<td></td>
</tr>
<tr>
<td>Appearance:</td>
<td></td>
</tr>
<tr>
<td>Form: Light yellow</td>
<td></td>
</tr>
<tr>
<td>Odour: Odourless</td>
<td></td>
</tr>
<tr>
<td>Odour threshold: Not determined.</td>
<td></td>
</tr>
<tr>
<td>pH-value at 20°C: 8.5</td>
<td></td>
</tr>
<tr>
<td>Change in condition: Undetermined.</td>
<td></td>
</tr>
<tr>
<td>Melting point/Melting range:</td>
<td></td>
</tr>
<tr>
<td>Boiling point/Boiling range: 100°C</td>
<td></td>
</tr>
<tr>
<td>Flash point: Not applicable.</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gaseous): Not applicable.</td>
<td></td>
</tr>
<tr>
<td>Ignition temperature: Not determined.</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature: Not determined.</td>
<td></td>
</tr>
<tr>
<td>Self-igniting: Product is not selfigniting.</td>
<td></td>
</tr>
<tr>
<td>Danger of explosion: Product does not present an explosion hazard.</td>
<td></td>
</tr>
<tr>
<td>Explosion limits: Not determined.</td>
<td></td>
</tr>
<tr>
<td>Lower:</td>
<td></td>
</tr>
<tr>
<td>Upper:</td>
<td></td>
</tr>
<tr>
<td>Vapour pressure at 20°C: 23 hPa</td>
<td></td>
</tr>
<tr>
<td>Density at 20°C: 1.08 g/cm³</td>
<td></td>
</tr>
<tr>
<td>Relative density: Not determined.</td>
<td></td>
</tr>
<tr>
<td>Vapour density: Not determined.</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate: Not determined.</td>
<td></td>
</tr>
</tbody>
</table>

(Contd. on page 6)
Solubility in / Miscibility with water: Fully miscible.
Segregation coefficient (n-octanol/water): Not determined.
Viscosity:
  Dynamic: Not determined.
  Kinematic: Not determined.
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:
  Carbon monoxide and carbon dioxide
  Sulphur oxides (SOx)
  Nitrogen oxides

11 Toxicological Information
11.1 Information on toxicological effects:
  Acute toxicity:
  Primary irritant effect:
    On the skin: Irritant to skin and mucous membranes.
    On the eye: Strong irritant with the danger of severe eye injury.
  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: No further relevant information available.
12.3 Bioaccumulative potential: No further relevant information available.
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.
    Must not reach sewage water or drainage ditch undiluted or unneutralized.
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, ADN, IMDG, IATA, ICAO: 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 ingredients is listed.

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

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

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

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. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |

| R36/37/38 | Irritating to eyes, respiratory system and skin. |
| R36/38   | Irritating to eyes and skin. |
| R38      | Irritating to skin. |
| R41      | Risk of serious damage to eyes. |
### 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