1. Identification

1.1. Product identifier

Product Identity
Lancerclean (LCD-P)

Alternate Names
Lancerclean (LCD-P)

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

Intended use
Highly Alkaline Detergent Blend

Application Method
See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name
Lancer Sales USA, Inc.
1150 Emma Oaks Trail, Suite 140
Lake Mary, FL 32746

Emergency 24 hour Emergency Telephone No.
Chemtrec: (800) 424-9300
Customer Service: Lancer Sales USA, Inc.
(407) 327-8488

2. Hazard(s) identification

2.1. Classification of the substance or mixture

Acute Tox. 5;H303 May be harmful if swallowed. (Not adopted by US OSHA)

Skin Corr. 1A;H314 Causes severe skin burns and eye damage.

Eye Dam. 1;H318 Causes serious eye damage.

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.

Danger

H303 May be harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

[Prevention]:

P260 Do not breathe mist / vapors / spray.

P264 Wash thoroughly after handling.

P280 Wear protective gloves / eye protection / face protection.

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

<table>
<thead>
<tr>
<th>Ingredient/Chemical Designations</th>
<th>Weight %</th>
<th>GHS Classification</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium hydroxide. CAS Number: 0001310-58-3</td>
<td>10 - 25</td>
<td>Acute Tox. 4;H302 Skin Corr. 1A;H314</td>
<td>[1][2]</td>
</tr>
<tr>
<td>Sodium silicate CAS Number: 0001344-09-8</td>
<td>10 - 25</td>
<td>Skin Irrit. 2;H315 Eye Dam. 1;H318 STOT SE 3;H335</td>
<td>[1]</td>
</tr>
</tbody>
</table>

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret. [1] Substance classified with a health or environmental hazard. [2] Substance with a workplace exposure limit. [3] PBT-substance or vPvB-substance. *The full texts of the phrases are shown in Section 16.

4. First aid measures

4.1. Description of first aid measures

General
In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation
Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Eyes
Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

Skin
Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
5. Fire-fighting measures

5.1. Extinguishing media
Use media appropriate for the primary source of fire

5.2. Special hazards arising from the substance or mixture
Hazardous decomposition: Potassium oxides
Do not breathe mist / vapors / spray.

5.3. Advice for fire-fighters
None
ERG Guide No. 154

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions
Do not allow spills to enter drains or waterways.
Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up
Absorb a small spill with an inert material and put the spilled material in an appropriate waste disposal. Large spills should be absorbed with dry earth or other non combustible material. Dispose of according to local, state and federal regulations.

7. Handling and storage

7.1. Precautions for safe handling
Protect from physical damage and keep containers tightly closed. Keep containers in cool well ventilated area. Keep away from heat, sparks, open flames and children.

7.2. Conditions for safe storage, including any incompatibilities

8. Exposure controls and personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Ingredient Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>0001310-58-3</td>
<td>Potassium hydroxide. OSHA</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td>ACGIH</td>
<td>Ceiling: 2 mg/m3</td>
</tr>
<tr>
<td></td>
<td>NIOSH</td>
<td>C</td>
</tr>
<tr>
<td></td>
<td>Supplier</td>
<td>No Established Limit</td>
</tr>
<tr>
<td>0001344-09-8</td>
<td>Sodium silicate OSHA</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td>ACGIH</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td>NIOSH</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td>Supplier</td>
<td>No Established Limit</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Respiratory
Use NIOSH/MSHA approved respirator, following manufacturer’s recommendations when concentrations exceed permissible exposure limits.

Eyes
Wear safety glasses with side shields to protect the eyes. An eye wash station is suggested as a good workplace practice.

Skin
Chemical resistant clothing such as coveralls/apron and boots should be worn. Wear gloves. Gloves must be resistant to corrosive materials. Nitrile or PVC gloves are suitable. Do not use cotton or leather gloves.

Engineering Controls
Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.
Other Work Practices
Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.
See section 2 for further details. - [Prevention]

9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>None</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not Measured</td>
</tr>
<tr>
<td>pH</td>
<td>&gt; 13</td>
</tr>
<tr>
<td>Melting point / freezing point</td>
<td>~32 F</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>&gt; 212 F</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not Measured</td>
</tr>
<tr>
<td>Evaporation rate (Ether = 1)</td>
<td>Not Measured</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>Not Measured</td>
</tr>
<tr>
<td>Vapor pressure (Pa)</td>
<td>&gt; 1 (Air = 1)</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Water based</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.15 - 1.22</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Complete</td>
</tr>
<tr>
<td>Partition coefficient n-octanol/water (Log Kow)</td>
<td>Not Measured</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not Measured</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not Measured</td>
</tr>
<tr>
<td>Viscosity (cSt)</td>
<td>Not Measured</td>
</tr>
<tr>
<td>Flammability</td>
<td>Non-flammable</td>
</tr>
</tbody>
</table>

9.2. Other information
No other relevant information.

10. Stability and reactivity

10.1. Reactivity
Hazardous Polymerization will not occur.

10.2. Chemical stability
Stable under normal circumstances.

10.3. Possibility of hazardous reactions
Incompatible with strong oxidizers, leather and halogenated compounds. Product will react with 'soft' metals such as aluminum, tin, magnesium, and zinc releasing flammable hydrogen gas.

10.4. Conditions to avoid
Excessive heat and open flame. Sealed containers may develop explosive pressures under fire conditions. Use water to cool containers exposed to fire.

10.5. Incompatible materials
Strong acids

10.6. Hazardous decomposition products
Potassium oxides

11. Toxicological information

Acute toxicity

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Oral LD50, mg/kg</th>
<th>Skin LD50, mg/kg</th>
<th>Inhalation Vapor LC50, mg/L/4hr</th>
<th>Inhalation Dust/Mist LC50, mg/L/4hr</th>
<th>Inhalation Gas LC50, ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium hydroxide</td>
<td>365.00, Rat</td>
<td>No data</td>
<td>No data</td>
<td>No data</td>
<td>No data</td>
</tr>
<tr>
<td>Sodium silicate</td>
<td>&gt;2,000.00, Rat</td>
<td>No data</td>
<td>No data</td>
<td>No data</td>
<td>No data</td>
</tr>
</tbody>
</table>

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

<table>
<thead>
<tr>
<th>Classification</th>
<th>Category</th>
<th>Hazard Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity (oral)</td>
<td>4</td>
<td>Harmful if swallowed.</td>
</tr>
<tr>
<td>Acute toxicity (dermal)</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Acute toxicity (inhalation)</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>1A</td>
<td>Causes severe skin burns and eye damage.</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>1</td>
<td>Causes serious eye damage.</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>STOT-single exposure</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>STOT-repeated exposure</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>
12. Ecological information

12.1. Toxicity
No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Toxicity

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>96 hr LC50 fish, mg/l</th>
<th>48 hr EC50 crustacea, mg/l</th>
<th>ErC50 algae, mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium hydroxide. - (1310-58-3)</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Sodium silicate - (1344-09-8)</td>
<td>301.00, Lepomis</td>
<td>216.00, Daphnia magna</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability
There is no data available on the preparation itself.

12.3. Bioaccumulative potential
Not Measured

12.4. Mobility in soil
No data available.

12.5. Results of PBT and vPvB assessment
This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects
No data available.

13. Disposal considerations

13.1. Waste treatment methods
Observe all federal, state and local regulations when disposing of this substance.

14. Transport information

<table>
<thead>
<tr>
<th>DOT (Domestic Surface Transportation)</th>
<th>IMO / IMDG (Ocean Transportation)</th>
<th>ICAO/IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1. UN number</td>
<td>UN1814</td>
<td>UN1814</td>
</tr>
<tr>
<td>14.2. UN proper shipping name</td>
<td>UN1814, Potassium hydroxide, solution, 8, II</td>
<td>Potassium hydroxide, solution</td>
</tr>
<tr>
<td>14.3. Transport hazard class(es)</td>
<td>DOT Hazard Class: 8</td>
<td>IMDG: 8</td>
</tr>
<tr>
<td>14.4. Packing group</td>
<td>II</td>
<td>Sub Class: Not Applicable</td>
</tr>
<tr>
<td>14.5. Environmental hazards</td>
<td>II</td>
<td>Air Class: 8</td>
</tr>
<tr>
<td>IMDG</td>
<td>Marine Pollutant: No</td>
<td></td>
</tr>
</tbody>
</table>

15. Regulatory information

Regulatory Overview
The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Toxic Substance Control Act (TSCA)
All components of this material are either listed or exempt from listing on the TSCA Inventory.

WHMIS Classification
D2B E

US EPA Tier II Hazards
Fire: No
Sudden Release of Pressure: No
Reactive: No
Immediate (Acute): Yes
Delayed (Chronic): No

EPCRA 311/312 Chemicals and RQs (lbs):
Potassium hydroxide. (1,000.00)

EPCRA 302 Extremely Hazardous:
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals:
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Carcinogens (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Developmental Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

New Jersey RTK Substances (>1%):
Potassium hydroxide.

Pennsylvania RTK Substances (>1%):
Potassium hydroxide.

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.
The full text of the phrases appearing in section 3 is:

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.

This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the revision date. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this safety data sheet. It is the user’s obligation to evaluate and use this product safely and to comply with all applicable laws and regulations.

End of Document