SECTION 1: Identification of the substance/mixture

Product identifier

Product Number: CCLD72A, CCLD72B, CCLD144C, CCLD72D
Product Name: Crystal Clean Liquid Dish Detergent
CAS: Mixture

Relevant identified uses of the substance or mixture and uses advised against
Recommended Use: A formulated mixture for consumer use. Dish soap.

Details of the supplier of the safety data sheet

Company name: Ultra-Pak, Inc.
Full address: 210 Pennsylvania Ave, Greer, SC 29650
Telephone number: (864) 655-3300
E-mail address: info@ultrapakinc.com

Emergency telephone number

Chemical Information (8:30am-5pm (ET) M-F): (864) 655-3300
Emergency telephone number: INFOTRAC #107367 1-800-535-5053

SECTION 2: Hazards identification

Classification of the substance or mixture

According to Regulation (HCS) (29 CFR 1910.1200(g))

GHS Classification:
- EYE DAMAGE/EYE IRRITATION- Category 2B
- SKIN CORROSION/IRRITATION – Category 3

Label elements:

According to Regulation (HCS) (29 CFR 1910.1200(g))

Signal Word: Warning
Symbol: None

Hazard Statements:
- Causes eye irritation – H320
- Causes mild skin irritation – H316

Precautionary Statements

Prevention:
- P264 - Wash hands thoroughly after handling.

Response:
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313 - If eye irritation persists: Get medical attention.
- P332+P313 – If skin irritation occurs: Get medical advice/attention.
Storage: No other specific measures identified.
Disposal: See section 13 for waste disposal information
Other hazards: None known

SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Substances</th>
<th>Composition information – main constituents</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>IUPAC name</td>
</tr>
<tr>
<td>Sodium Lauryl Ether Sulfate</td>
<td>9004-82-4</td>
</tr>
<tr>
<td>Ammonium Lauryl Ether Sulfate</td>
<td>32612-48-9</td>
</tr>
<tr>
<td>Dodecyl Benzene Sulfonic Acid</td>
<td>27176-87-0</td>
</tr>
<tr>
<td>Alkyl Polyglucoside</td>
<td>68515-73-1</td>
</tr>
<tr>
<td>Sodium Hydroxide</td>
<td>1310-73-2</td>
</tr>
</tbody>
</table>

SECTION 4: First Aid Measures

Description of first aid measures

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.

Skin contact: Rinse with water for a few minutes.

Inhalation: No special measures required. Treat symptomatically.

Ingestion: Get medical attention if symptoms occur.

Notes to physician: Treat symptomatically.

Most important symptoms and effects, both acute and delayed: Eye and/or skin contact may irritate and cause redness and pain. Symptoms may include stinging, burning, tearing, redness, swelling and blurred vision.

Indication of any immediate medical attention and specific treatment needed: When contacting a physician, take this SDS with you. Ensure medical personnel are aware of the material involved.

SECTION 5: Fire-fighting Measures

Suitable fire extinguishing media: Use water, spray, fog, or foam.

Specific hazards arising from the chemical: None known.
Advice for Fire-Fighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operate in positive pressure mode.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Initiate company’s spill response procedures immediately. Keep people and powered industrial vehicles out of the area. Don appropriate personal protective equipment (PPE; See Section 8). Do not walk through spilled material.

For emergency responders: Wear appropriate PPE: chemically protective gloves, clothing and full-face, air purifying respirator.

Environmental: Avoid contact of large amounts of spilled material and runoff with soil and surface waterways. Avoid discharge to drains.

Methods for clean-up: Dike spilled material with suitable absorbent material like clay or cloth pillows. Cover with inert, absorbent material and remove to disposal container. Spill area may be slippery. Flush with plenty of water.

SECTION 7: Handling and storage

Precautions for safe handling

Advice on safe Handling: Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in section 8. For industrial and commercial use only. Avoid contact with skin, eyes or clothing.

Conditions for safe storage, including any incompatibilities: Keep out of reach of children. Keep container tightly closed. Store at controlled room temperature at 20–25 ºC (68-77ºF).

Specific end use(s): Soap for dishes.

SECTION 8: Exposure controls/personal protection

Control parameters

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TWA</td>
<td>STEL</td>
</tr>
<tr>
<td>Sodium Lauryl Ether Sulfate</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Ammonium Lauryl Ether Sulfate</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Dodecyl Benzene Sulfonic Acid</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Alkyl Polyglucoside</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>2 ppm</td>
<td>NA</td>
</tr>
</tbody>
</table>

Exposure Guidelines: This product as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
**Appropriate engineering controls:** Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Individual protection measures such as personal protection equipment**

**Eye / face protection:** No protective equipment is needed under normal use conditions.

**Skin and body protection:** No protective equipment is needed under normal use conditions.

**Respiratory protection:** Under normal conditions, a respirator is not normally required.

**General hygiene considerations:** Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9: Physical and chemical properties

**Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color:</td>
<td>Various, primarily green or blue</td>
</tr>
<tr>
<td>Odor:</td>
<td>Floral or Citrus or Fruit</td>
</tr>
<tr>
<td>pH:</td>
<td>6-9 (100%)</td>
</tr>
<tr>
<td>Melting point:</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Boiling point:</td>
<td>&gt;100°C (&gt;212°F)</td>
</tr>
<tr>
<td>Flash point:</td>
<td>&gt;100°C</td>
</tr>
<tr>
<td>Evaporation rate:</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability:</td>
<td>Not available</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits:</td>
<td>No available</td>
</tr>
<tr>
<td>Vapour pressure:</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapour density:</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative density:</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility (ies) in water (T = 20 °C):</td>
<td>Miscible in water</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water:</td>
<td>Not available</td>
</tr>
<tr>
<td>Auto-ignition temperature:</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition temperature:</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity:</td>
<td>300 cps – 1000 cps</td>
</tr>
<tr>
<td>Explosive properties:</td>
<td>Not available</td>
</tr>
<tr>
<td>Oxidising properties:</td>
<td>Not available</td>
</tr>
</tbody>
</table>

## SECTION 10: Stability and reactivity

**Reactivity:** None known.

**Stability:** The product is stable.

**Possibility of hazardous reactions:** Under normal conditions, storage, and use, hazardous reactions will not occur.

**Conditions to avoid:** Incompatible materials.
Materials to avoid: Avoid contact with strong oxidizing agents.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

Route(s) of exposure: Skin contact, Eye contact, Inhalation, Ingestion.

Product information

Eye contact: Avoid contact with eyes.
Skin contact: Avoid contact with skin.
Inhalation: Avoid breathing vapors or mist.
Ingestion: May be harmful if swallowed.

Acute toxicity

Eye contact: Causes eye irritation
Skin contact: No known significant effects or critical hazards. May cause irritation.
Inhalation: No specific data
Ingestion: No specific data

Acute Toxicity:

<table>
<thead>
<tr>
<th>Toxicological Data</th>
<th>CAS number</th>
<th>LD50 – Oral Rat</th>
<th>LC50 – Inhalation - Rat</th>
<th>LD50 – Dermal Rat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Lauryl Ether Sulfate</td>
<td>9004-82-4</td>
<td>1288 mg/kg (RTECS)</td>
<td>&gt;3900 mg/m³ 1 h</td>
<td>580 mg/kg Rabbit</td>
</tr>
<tr>
<td>Ammonium Lauryl Ether Sulfate</td>
<td>32612-48-9</td>
<td>ND</td>
<td>ND</td>
<td>ND</td>
</tr>
<tr>
<td>Dodecyl Benzene Sulfonic Acid</td>
<td>27176-87-0</td>
<td>1080 - 1980 mg/kg</td>
<td>ND</td>
<td>&gt; 2000 mg/kg Rabbit</td>
</tr>
<tr>
<td>Alkyl Polyglucoside</td>
<td>68515-73-1</td>
<td>&gt;5000 mg/kg</td>
<td>21.7 mg/L</td>
<td>ND</td>
</tr>
<tr>
<td>Sodium Hydroxide</td>
<td>1310-73-2</td>
<td>300 – 500 mg/kg (30-54% caustic)</td>
<td>NA</td>
<td>28,421 mg/kg (5% caustic)</td>
</tr>
</tbody>
</table>

Carcinogenicity:

<table>
<thead>
<tr>
<th>Carcinogenicity Data</th>
<th>CAS number</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Lauryl Ether Sulfate</td>
<td>9004-82-4</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>Ammonium Lauryl Ether Sulfate</td>
<td>32612-48-9</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>
Chronic Toxicity
Carcinogenicity: No known significant effects or critical hazards.
Mutagenicity: No known significant effects or critical hazards.
Teratogenicity: No known significant effects or critical hazards.
Developmental effects: No known significant effects or critical hazards.
Fertility effects: No known significant effects or critical hazards.

SECTION 12: Ecological information

Ecotoxicity: This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability: This material is expected to biodegrade; however, no specific data is available on the mixture.

Bioaccumulative potential: This product is not expected to bioaccumulate.

Mobility in soil: Expected to partition to water and transport readily.

Results of PBT and vPvB assessment: No specific data are available for this mixture.

Other adverse effects: No known significant effects or critical hazards.

SECTION 13: Disposal considerations

Disposal methods: Dispose of waste and residues in accordance with local, state and federal requirements. Generally this material can be considered an industrial, non-hazardous waste.
SECTION 14: Transport information

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT**

| DOT Classification | Not regulated. |

**IMO/IMDG**

| IMO/IMDG Classification | Not regulated. |

**IATA**

| IATA Classification | Not regulated. |

SECTION 15: Regulatory information

**U.S. Federal regulations**

| TSCA 8 (b) inventory: All components are listed or exempted. | No listed substance |
| SARA 302/304/311/312 extremely hazardous substances: | No listed substance |
| SARA 302/304 emergency planning and notification: | No listed substance |

<table>
<thead>
<tr>
<th>SARA 313</th>
<th>Product Name</th>
<th>CAS number</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form R- Reporting: No listed substance</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Requirements

CERCLA Reportable Quantity: Sodium Hydroxide – 1,000 lbs

**California Prop. 65:** No listed substance

SECTION 16: Other information

**Abbreviations and acronyms**

- ACGIH - American Conference of Governmental Industrial Hygienists
- CAS - Chemical Abstract Service Number
- CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act
- DOT – US Department of Transportation
**Safety Data Sheet**

**LIQUID DISH DETERGENT**

IARC – International Agency for Research on Cancer  
NA – Not Available  
NTP – National Toxicological Program  
OSHA – Occupational Safety and Health Administration  
PEL – Permissible Exposure Limit  
ppm – parts per million  
RCRA – Resource Conservation and Recovery Act  
RTECS - Registry of Toxic Effects of Chemical Substances  
SARA – Superfund Amendments and Reauthorization Act  
TLV – Threshold Limit Value  
TSCA – Toxic Substances Control Act  
IDLH – Immediately Dangerous to Life and Health

**Key literature references and sources of data**

LabChem, Sodium Hydroxide, 5% w/v, 10/16/13  
Fisher Science Education, Sodium Hydroxide, 0.05N (0.5M), 4/12/13  
Olin Chlor Alkali Products, Sodium Hydroxide 30-54%, 12/20/13  
United Nations, Globally Harmonized System of Classification and Labelling of Chemicals (GHS), 5th ed.

**Disclaimer**

The information on this data sheet reflects the currently available knowledge and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product, including the use of the product in combination with any other product or any other process, is the responsibility of the user. It is implicit that the user is responsible for determining appropriate safety measures and for applying the legislation covering his/her own activities.