

# Material Safety Data Sheet



LIQUID K

## 1. Product and company identification

Trade name of product : LIQUID K  
Product use : Foam additive

Product dilution information : Up to 0.167 oz/gal in water

Supplier's information : Ecolab Inc. Food & Beverage Division  
370 N. Wabasha Street  
St. Paul, MN 55102  
1-800-392-3392

Code : 916916-01  
Date of issue : 06-May-2011  
EPA Registration No. : Adjuvant

**EMERGENCY HEALTH INFORMATION: 1-800-328-0026**  
Outside United States and Canada CALL 1-651-222-5352 (in USA)

## 2. Hazards identification

**Product AS SOLD**  
Physical state : Liquid.  
Emergency overview : DANGER !  
CAUSES EYE BURNS.  
MAY CAUSE SKIN IRRITATION.  
Do not get in eyes. Avoid contact with skin and clothing. Wash thoroughly after handling.

### Product AT USE DILUTION

Liquid.  
CAUTION !  
No specific hazard.  
No specific hazard.

### Potential acute health effects

**Product AS SOLD**  
Eyes : Corrosive to eyes.  
Skin : Moderately irritating to the skin.  
Inhalation : No known significant effects or critical hazards.  
Ingestion : No known significant effects or critical hazards.

### Product AT USE DILUTION

No known significant effects or critical hazards.  
No known significant effects or critical hazards.  
No known significant effects or critical hazards.  
No known significant effects or critical hazards.

See toxicological information (section 11)

## 3. Composition/information on ingredients

### Product AS SOLD

| Name  | CAS number | % by weight |
|---|------------|-------------|
| SODIUM DODECYLBENZENESULFONATE  | 25155-30-0 | 16          |
| poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, c10-16-alkyl ethers, sodium salts | 68585-34-2 | 1 - 5       |
| COCAMIDE DEA  | 68603-42-9 | 1 - 5       |

### Product AT USE DILUTION

### 3. Composition/information on ingredients

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

### 4. First aid measures

|                     | Product AS SOLD   | Product AT USE DILUTION   |
|---------------------|---|---|
| <b>Eye contact</b>  | : In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention immediately.                        | No known effect after eye contact. Rinse with water for a few minutes.  |
| <b>Skin contact</b> | : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if irritation persists. Wash clothing before reuse. Clean shoes thoroughly before reuse. | No known effect after skin contact. Rinse with water for a few minutes. |
| <b>Inhalation</b>   | : No special measures required. Treat symptomatically.  | No special measures required. Treat symptomatically.                    |
| <b>Ingestion</b>    | : Get medical attention if symptoms occur.  | Get medical attention if symptoms occur.                                |

### 5. Fire-fighting measures

#### Product AS SOLD

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
sulfur oxides  
metal oxide/oxides

**Fire-fighting media and instructions** : Use an extinguishing agent suitable for the surrounding fire.

Dike area of fire to prevent runoff.

In a fire or if heated, a pressure increase will occur and the container may burst.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### 6. Accidental release measures

|                                  | Product AS SOLD   | Product AT USE DILUTION  |
|----------------------------------|---|--|
| <b>Personal precautions</b>      | : Use personal protective equipment as required.                                | Use personal protective equipment as required.   |
| <b>Environmental precautions</b> | : Avoid contact of spilled material and runoff with soil and surface waterways. | Avoid contact of large amounts of spilled material and runoff with soil and surface waterways. |
| <b>Methods for cleaning up</b>   | : Use a water rinse for final clean-up.   | Use a water rinse for final clean-up.  |

### 7. Handling and storage

|                 | Product AS SOLD  | Product AT USE DILUTION         |
|-----------------|--|---------------------------------|
| <b>Handling</b> | : Do not get in eyes. Avoid contact with skin and clothing. Wash thoroughly after handling.  | Wash thoroughly after handling. |
| <b>Storage</b>  | : Keep out of reach of children. Store in a closed container. Keep container tightly closed.<br>Store between the following temperatures: -30 and 50°C | Keep out of reach of children.  |

## 8. Exposure controls/personal protection

| Product AS SOLD  |  | Product AT USE DILUTION  |
|--|--|--|
| <b>Engineering measures</b>                                      | : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard. | Good general ventilation should be sufficient to control worker exposure to airborne contaminants. |
| <b>Personal protection</b>                                       |  |  |
| <b>Eyes</b>  | : Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.   | No protective equipment is needed under normal use conditions.                                     |
| <b>Hands</b>   | : For prolonged or repeated handling, use the following type of gloves: Impervious gloves.   | No protective equipment is needed under normal use conditions.                                     |
| <b>Skin</b>  | : No protective equipment is needed under normal use conditions.   | No protective equipment is needed under normal use conditions.                                     |
| <b>Respiratory</b>   | : No special protection is required.   | No special protection is required.   |
| <b>Consult local authorities for acceptable exposure limits.</b> |  |  |

## 9. Physical and chemical properties

| Product AS SOLD                   |  | Product AT USE DILUTION |
|-----------------------------------|--|-------------------------|
| <b>Physical state</b>             | : Liquid.  | Liquid.                 |
| <b>Flash point</b>                | : > 100°C<br>Product does not support combustion.                          | > 100°C                 |
| <b>Color</b>                      | : Yellow   | Pale color [Light]      |
| <b>Odor</b>                       | : Faint odor   | Odorless                |
| <b>pH</b>                         | : 6 to 8.5 [Conc. (% w/w): 100%]   | 6.5 to 7.5              |
| <b>Boiling/condensation point</b> | : >100°C (>212°F)  |                         |
| <b>Relative density</b>           | : 1.019 to 1.039   |                         |
| <b>Dispersibility properties</b>  | : Easily dispersible in the following materials: cold water and hot water. |                         |
| <b>Solubility</b>                 | : Easily soluble in the following materials: cold water and hot water.     |                         |

## 10. Stability and reactivity

| Product AS SOLD                         |   |
|---|---|
| <b>Stability</b>                        | : The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur. |
| <b>Hazardous decomposition products</b> | : Under normal conditions of storage and use, hazardous decomposition products should not be produced.        |
| <b>Hazardous polymerization</b>         | : Under normal conditions of storage and use, hazardous polymerization will not occur.                        |

## 11. Toxicological information

### Potential acute health effects

| Product AS SOLD |                                      | Product AT USE DILUTION                           |
|-----------------|--------------------------------------|---|
| <b>Eyes</b>     | : Corrosive to eyes.                 | No known significant effects or critical hazards. |
| <b>Skin</b>     | : Moderately irritating to the skin. | No known significant effects or critical hazards. |

## 11. Toxicological information

**Inhalation** : No known significant effects or critical hazards.

No known significant effects or critical hazards.

**Ingestion** : No known significant effects or critical hazards.

No known significant effects or critical hazards.

## 12. Ecological information

**Ecotoxicity** : Not reported

## 13. Disposal considerations

### Product AS SOLD

**Waste disposal** : Avoid disposal. Attempt to use product completely in accordance with intended use. Disposal should be in accordance with applicable regional, national and local laws and regulations.

### Product AT USE DILUTION

Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

## 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

### Product AS SOLD

**DOT Classification** : Not regulated.

For transport in bulk or using IMDG regulations, see shipping documents for specific transportation information.

### Product AT USE DILUTION

Not intended for transport.

## 15. Regulatory information

### Product AS SOLD

**HCS Classification** : Corrosive material

### Product AT USE DILUTION

Not regulated.

### Product AS SOLD

#### U.S. Federal regulations

**TSCA 8(b) inventory** : All components are listed or exempted.

**EPA Registration No.** : Adjuvant

**SARA 302/304/311/312 extremely hazardous substances**: No listed substance

**SARA 302/304 emergency planning and notification**: No listed substance

#### SARA 313

#### Product name

#### CAS number

#### Concentration

**Form R - Reporting requirements** : No listed substance

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

## 16. Other information

## 16. Other information

### Product AS SOLD

Hazardous Material :  
Information System (U.S.A.)

|                  |   |
|------------------|---|
| Health           | 3 |
| Flammability     | 0 |
| Physical hazards | 0 |
|                  |   |

National Fire Protection :  
Association (U.S.A.)



### Product AT USE DILUTION

|                  |   |
|------------------|---|
| Health           | 0 |
| Flammability     | 0 |
| Physical hazards | 0 |
|                  |   |



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1-800-352-5326

☑ Indicates information that has changed from previously issued version.

#### Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.