



*your partner in food safety*

# SDS

## Safety Data Sheet

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### 1) Product Identification

**Product Name:** Liquilon

**Product Code:** I00044

**Recommended Use:** A one shot liquid laundry detergent containing low levels of alkalinity, a blend of high foaming surfactants, non-toxic solvents, and optical brighteners.

**Producer:** Birko Corporation  
9152 Yosemite Street  
Henderson, CO 80640-8027

**Contact Information:** (303) 289-1090 or 1-800-525-0476

**Emergency Number:** CHEMTREC 1-800-424-9300

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### 2) Hazard(s) Identification

Health	Environmental	Physical
Acute Toxicity Cat. 4 (oral) Skin Corrosion Cat. 2 Eye Effects Cat. 2A Carcinogenic Cat. 1B (Ingestion) Reproductive Cat. 1A (Ingestion)	Aquatic Toxicity Acute Cat. 3	

**Labeling:****Symbol:****Signal Word: Danger****Target Organ Toxicity, Irritant, Aquatic Toxicity**

**Hazard Statement(s):** This product may cause irreversible eye damage, and may be harmful or fatal if swallowed. Do not get into eyes or on clothing. In case of contact immediately flush with water for at least 15 minutes.

**Precautionary Statement(s):** Use rubber gloves, protective splash-proof goggles, and protective clothing. Remove contaminated clothing and wash before re-use. Do not contaminate food, feed, or water. Keep container closed when not in use.

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**3) Composition/ Information on Ingredients**

Name(s)	Synonym(s)	CAS Number	Weight %
Alkyl-benzenesulfonic Acid (C10-16)	Benzenemonosulfonic Acid	68584-22-5	< 10%
Potassium Hydroxide	Caustic Potash	01310-58-3	< 5%
Ethanol	Ethyl alcohol	64-17-5	< 5%

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**4) First-Aid Measures**

Inhalation	Skin Contact	Eye Contact	Ingestion
Remove from exposure. Administer oxygen if breathing is difficult. Resuscitate if necessary. Get medical help immediately	Promptly rinse exposed areas with water. Do not wear contaminated clothing until it has been laundered. If irritation persists, consult a physician.	Immediately rinse eyes thoroughly in cool running water for at least 15 minutes. If irritation persists, or inflammation or swelling occurs, seek medical attention.	DO NOT induce vomiting. Have a conscious victim drink milk or water to dilute. Never give an unconscious person anything by mouth. Get medical help immediately.

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## 5) Firefighting Measures

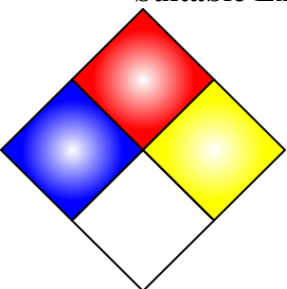
**Suitable Extinguishing Media:** Water, Carbon Dioxide, Dry Chemical, and Foam Blanket

**Unsuitable Extinguishing Media:** N/A

**Flash Point:** >200°F TCC

**Specific Hazards:** Always wear self-contained breathing apparatus when fighting a chemical fire.

**Special Protective Actions for Fire-Fighters:** Carbon Monoxide/Carbon Dioxide gases liberated during combustion.



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## 6) Accidental Release Measures

**Personal Precautions:** Be sure to use all necessary Personal Protective Equipment

**Environmental Precautions:** Avoid contamination of food, feed, waterway, or groundwater.

**Methods and Materials for Containment and Clean-Up:** Capture material and contain for re-use or disposal. Remainder may be neutralized with a mild acid (vinegar) and rinsed to a sewer.

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## 7) Handling and Storage

**Precautions for Safe Handling:** Do not contaminate food, feed, or natural water. Supplier is not responsible for disposition of this product. Do not reuse container. Maintain an eyewash station, and safety shower in product handling areas.

**Conditions for Safe Storage:** Keep container closed when not in use. Store in a cool, dry location.

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## 8) Exposure Controls and Personal Protection

**Appropriate Engineering Controls:** Ventilation: Provide local exhaust ventilation where dust or mist may be generated. Ensure compliance with applicable exposure limits.

### Exposure Limits:

Name (CAS-No.)	PEL	TWA	Ceiling	TLV
Benzenesulfonic Acid (68584-22-5)	NONE	NONE	NONE	NONE
Potassium Hydroxide (01310-58-3)	NONE	ACGIH 2mg/m <sup>3</sup>	ACGIH 2mg/m <sup>3</sup>	NONE
Ethanol (64-17-5)	OHSA 1900 mg/m <sup>3</sup>	NONE	NONE	ACGIH 1880 mg/m <sup>3</sup>

### Personal Protective Equipment

Eye/Face	Skin	Gloves
		

**Eye/Face:** Safety glasses.

**Skin:** Wear appropriate clothing.

**Gloves:** Wear appropriate chemical resistant gloves.

**Respiratory:** Use only when concentrations exceed exposure limits. If limits are exceeded a NIOSH approved respirator is required. If eye irritation occurs use a full face style mask. When vapor concentrations are above 10 ppm or in a spill emergency a NIOSH approved self-contained breathing apparatus or airline respirator, with full-face piece is required. If respirators are warranted in the workplace a respiratory protection programs must meet 29 CFR 1910.134, and be followed.

**Protective Material Types:** Butyl rubber, natural rubber, neoprene, nitrile, polyvinyl chloride (PVC), or Tychem (R)

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## 9) Physical and Chemical Properties

**Physical Form:** Liquid

**Appearance:** Clear to Light Straw

**Odor:** Alcoholic Detergent

**pH:** 12.7

**Melting Point:** Not available

**Freezing Point:** Not Established

**Boiling Point:** 212-220° F

**Flash Point:** < 200°F

**Evaporation Rate:** < 1

**Flammability:** Not flammable

**Upper/Lower Flammability or explosive limits:** Not available

**Vapor Pressure:** Not Established

**Vapor Density:** Not Established

**Relative Density:** Not available

**Specific Gravity:** 1.04

**Solubility:** 100%

**Partition coefficient:** Not available

**Auto-Ignition Temperature:** Not available

**Decomposition Temperature:** Not available

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## 10) Stability and Reactivity

**Chemical Stability:** This product should maintain its physical characteristics when stored closed at moderate temperatures, between 28°F and 105°F.

**Possibility of Hazardous Reactions:** This product does not polymerize under normal storage and use conditions.

**Conditions to Avoid:** N/A

**Materials to Avoid:** Oxidizers, especially Chlorine Bleach

**Hazardous Decomposition Products:** Carbon Monoxide/Carbon Dioxide gases liberated during combustion.

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## 11) Toxicological Information

**Acute Toxicity:**

Test	Results	Basis
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**Summary Comments:** Contact with skin for an extended period of time can cause irritation. If irritation or inflammation persist seek immediate medical attention.

**Sub-chronic/Chronic Toxicity:**

Chemical Name	CAS #	Mutagen	Teratogen	Carcinogen
Ethanol	64-17-5	Yes	Suspected	Yes

**Summary Comments:** Ethanol is documented to be a carcinogen and reproductive hazard in animals and humans.

**Medical conditions aggravated by exposure:** Respiratory system (including asthma and other breathing disorders)

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## 12) Ecological Information

**Toxicity:**

Test	Results
Mosquito Fish LC50	96 hours 80 mg/l
Guppy LC50	24 hours 165 mg/l

**Persistence and Degradability:** Product is believed to be biodegradable.

**Bioaccumulative Potential:** This material is believed not to bioaccumulate.

**Mobility in Soil:** N/A

**Other Adverse Effects:** N/A

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## 13) Disposal Considerations

**Disposal Method:** Re-use or reprocess if possible. Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D002

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## 14) Transport Information

**UN Number:** N/A

**UN Proper Shipping Name:** N/A

**Transport Hazard Class (es):** N/A

**Packing Group:** N/A

**Environmental Hazard(s):** N/A

**Special Precautions for User:** N/A

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## 15) Regulatory Information

### US Regulations:

**CERCLA Sections 102a/103 Hazardous substances (40 CFR 302.4):**

**Potassium Hydroxide:** 1000 lbs. RQ on 100% active basis.

**SARA Title III SARA Sections 311/312 Hazardous Categories (40 CFR 370.21):**

Acute: Yes

Chronic: No

Fire: No

Reactive: No

Sudden Release: No

### State Regulations:

**California Proposition 65:** This product contains an ingredient know to be listed.

**California Hazardous Substance List:**

Potassium Hydroxide	1310-58-3
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Ethanol	64-17-5
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**New Jersey Worker and Community Right to Know Hazardous Substance List:**

Potassium Hydroxide	1310-58-3
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Ethanol	64-17-5
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**Pennsylvania Right to Know Hazardous Substance List:**

Potassium Hydroxide	1310-58-3
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Ethanol	64-17-5
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### Canadian Regulations:

**Controlled Products Regulations (CPR):** This product has been classified in accordance with the criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the CPR.

**WHMIS Classification:** D2

**National Inventory Status: U.S. Inventory (TSCA):** All the components of this substance are listed on or exempt from the inventory.

**TSCA 12(b) Export Notification:** Not Listed

**Canada Inventory (DSL/NDL):** All components of this product are listed on the DSL

## 16) Other Information

### HMIS

0	FLAMMABILITY
2	HEALTH
2	REACTIVITY
J	Personal Protection

4-Severe

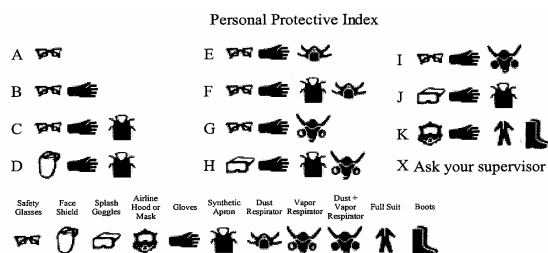
3-Serious

2-Moderate

1-Slight

0-Minimal

### Hazard Index



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**Approved By:** Terry L. McAninch

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