



*your partner in food safety*

# SDS

## Safety Data Sheet

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### 1) Product Identification

**Product Name:** Birko Surf

**Product Code:** I00082

**Recommended Use:** Liquid laundry additive.

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

## **Labeling:**



### **Symbol:**

**Signal Word: Danger**  
**Target Organ Toxicity, Irritant**

**Hazard Statement(s):** This product may cause eye damage, and may be harmful 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): Contact** 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.

## **3) Composition/ Information on Ingredients**

Name(s)	Synonym(s)	CAS Number	Weight %
Alkyl-benzenesulfonic Acid (C10-16)	Benzenemonosulfonic Acid	68584-22-5	< 10%
Dipropylene Glycol Methyl Ether	Di Methoxy Propanol	34590-94-8	< 10%
Ethanol	Ethyl alcohol	64-17-5	< 5%

## **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.

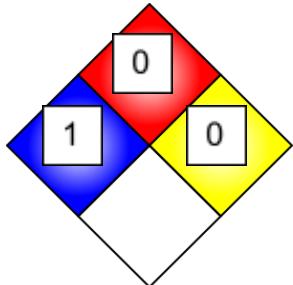
## **5) Firefighting Measures**

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

**Unsuitable Extinguishing Media:** N/A

**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. NO<sub>x</sub> 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.

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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	TLV	STEL
Dipropylene glycol methyl ether (34590-94-8)	100ppm/600 mg/m <sup>3</sup>	ACGIH 100ppm OSHA 100ppm/600mg/m <sup>3</sup>	NONE	ACGIH-150pp m OSHA 150ppm/900m g/m <sup>3</sup>
Ethanol (64-17-5)	OHSA 1900 mg/m <sup>3</sup>	N/A	ACGIH 1880 mg/m <sup>3</sup>	N/A

### 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. 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:** Yellow to Amber

**Odor:** Organic Solvent

**pH:** 10.0

**Melting Point:** Not Established

**Freezing Point:** 28°F

**Boiling Point:** 212-220° F

**Flash Point:** Not applicable

**Evaporation Rate:** < 1

**Flammability:** Not flammable

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

**Vapor Pressure:** Not Established

**Vapor Density:** > 1

**Relative Density:** Not available

**Specific Gravity:** 1.02

**Solubility:** 100%

**Partition coefficient:** Not available

**Auto-Ignition Temperature:** Not applicable

**Decomposition Temperature:** Not available

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## **10) Stability and Reactivity**

**Chemical Stability:** Stable at normal temperatures and pressure.

**Possibility of Hazardous Reactions:** This product does not polymerize.

**Conditions to Avoid:** N/A

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

**Hazardous Decomposition Products:** Carbon Monoxide/Carbon Dioxide gases liberated during combustion. NO<sub>x</sub> liberated during combustion.

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## **11) Toxicological Information**

### **Acute Toxicity:**

<b>Test</b>	<b>Results</b>	<b>Basis</b>
LD50 (Rat)	>2000 mg/kg	Similar Product Test

**Summary Comments:** Contact with skin for extended periods of time can cause irritation. If irritation persists, seek medical attention.

**Sub-chronic/Chronic Toxicity:**

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

**Summary Comments:** Ethanol is recognized as a carcinogen in both animals and humans. As well as an mutagen and teratogen.

**Medical conditions aggravated by exposure:** N/A

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## 12) Ecological Information

**Toxicity:**

Test	Results
LC50 (Rainbow Trout)	>100 mg/L

**Persistence and Degradability:** N/A

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

**Mobility in Soil:** Biodegradable

**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): N/A**

**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 may contain ingredient(s) that may be listed.

**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:** N/A

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

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

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## 16) Other Information

### HMIS

<b>0</b>	<b>FLAMMABILITY</b>
<b>1</b>	<b>HEALTH</b>
<b>1</b>	<b>REACTIVITY</b>
<b>C</b>	<b>Personal Protection</b>

4-Severe

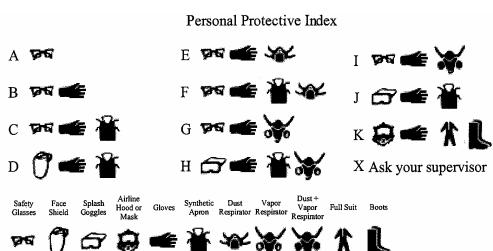
3-Serious

2-Moderate

1-Slight

0-Minimal

### Hazard Index



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**Approved By:** Terry L. McAninch

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