



your partner in food safety

SDS

Safety Data Sheet

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

2) Hazard(s) Identification

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

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.

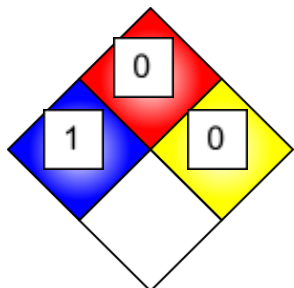
5) Firefighting Measures

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_x liberated during combustion.



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.

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.




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 ³	ACGIH 100ppm OSHA 100ppm/600mg/m ³	NONE	ACGIH-150ppm OSHA 150ppm/900mg/m ³
Ethanol (64-17-5)	OSHA 1900 mg/m ³	N/A	ACGIH 1880 mg/m ³	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)

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

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_x liberated during combustion.

11) Toxicological Information

Acute Toxicity:

Test	Results	Basis
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

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

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

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

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

16) Other Information

HMIS

0	FLAMMABILITY
1	HEALTH
1	REACTIVITY
C	Personal Protection

4-Severe

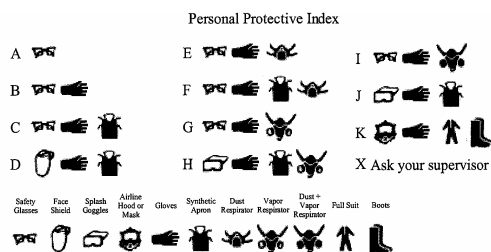
3-Serious

2-Moderate

1-Slight

0-Minimal

Hazard Index



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