



1) Product Identification

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. 1A Eye Effects Cat. 1	Aquatic Toxicity Cat. 4	Corrosive Cat. 1

Labeling:**Symbol:**

Signal Word: Danger
Corrosive, Irritant

Hazard Statement(s): This product causes irreversible eye damage, and is 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. Corrosive to certain types of metals.

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.

3) Composition/ Information on Ingredients

Name(s)	Synonym(s)	CAS Number	Weight %
Silicic Acid	Disodium Salt	6834-92-0	< 10%
Sodium Hydroxide		1310-73-2	< 60%

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	Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately.	Immediately rinse eyes thoroughly in cool running water for at least 15 minutes. Seek immediate medical attention.	DO NOT give anything by mouth to an unconscious person. DO NOT induce vomiting. If the material is swallowed, give water. Seek immediate medical attention.

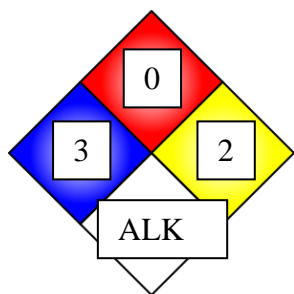
5) Firefighting Measures

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

Unsuitable Extinguishing Media: N/A

Specific Hazards: N/A

Special Protective Actions for Fire-Fighters: Carbon Monoxide/Carbon Dioxide gases liberated during combustion. PO_x and 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, sewers, or groundwater.

Methods and Materials for Containment and Clean-Up: **In Solution:** Remove all non-necessary personal from spill area, preferred upwind of spill site. For dry material: Wear NIOSH approved respiratory protection, and sweep up material or vacuum up spill material (recommended). For wet material: Dike, capture material, and contain for re-use or disposal. Remainder may be neutralized with a mild acid (vinegar) and rinsed to a sewer.

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. RELEASES HEAT WHEN MIXED WITH WATER.

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.)	STEL	TLV	PEL
Sodium Hydroxide (1310-73-2)	2 mg/m ³	2 mg/m ³	2 mg/m ³

Personal Protective Equipment

Eye/Face	Skin	Gloves	Respirary
			

Eye/Face: Wear chemical/dust safety goggles.

Skin: Wear appropriate clothing.

Gloves: Wear appropriate chemical resistant gloves.

Respiratory: Use only a NOISH N95 approved dust mask when in contact with powdered products. 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: Powder

Appearance: White

Odor: Odorless, but very harsh if inhaled

pH: (1% Solution) 13.0

Melting Point: Not Established

Freezing Point: Not Established

Boiling Point: Not Established

Flash Point: N/A

Evaporation Rate: < 1

Flammability: Not flammable

Upper/Lower Flammability or explosive limits: Not applicable

Vapor Pressure: Not Established

Vapor Density: Not Established

Relative Density: Not Established

Specific Gravity: Not applicable

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: Acid, ammonium salt solutions, aluminum, tin, lead, and zinc. Contact with certain metals may cause hydrogen gas. Carbon monoxide gas may be produced on contact with reducing sugars.

Hazardous Decomposition Products: Carbon Monoxide/Carbon Dioxide gases liberated during combustion. PO_x and NO_x liberated during combustion.

11) Toxicological Information

Acute Toxicity:

Test	Results	Basis
Oral LD50 (Rat)	4090 mg/kg	Product Tests
Inhalation LD50 (Rat)	2.3 mg/l 2 hours	Product Tests

Summary Comments: Contact with skin and eyes will cause burns. If burns occur seek immediate medical attention.

Sub-chronic/Chronic Toxicity:

Chemical Name	CAS #	Mutagen	Teratogen	Carcinogen
NA	NA	NA	NA	NA

Summary Comments: N/A

Medical conditions aggravated by exposure: N/A

12) Ecological Information

Toxicity:

Test	Results
LC50 Daphnia magna	265-565 mg/L 96 hours
LC50 Bluegill sunfish	300-320 mg/L 96 hours

Persistence and Degradability: This product is not persistent in aquatic systems, but its high pH when undiluted or neutralized is acutely harmful to aquatic life.

Bioaccumulative Potential: This material is believed not to bioaccumulate.

Mobility in Soil: Sinks and dissolves in water.

Other Adverse Effects: N/A

13) Disposal Considerations

Disposal Method: 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: UN1823

UN Proper Shipping Name: Sodium Hydroxide, Solid

Transport Hazard Class (es): 8

Packing Group: II

Environmental Hazard(s): N/A

15) Regulatory Information

US Regulations:

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

Sodium 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 is not listed

California Hazardous Substance List:

Sodium Hydroxide 1310-73-2

New Jersey Worker and Community Right to Know: Hazardous Substance List:

Sodium Hydroxide 1310-73-2

Pennsylvania Hazardous Substance List:

Sodium Hydroxide 1310-73-2

Rhode Island Hazardous Substance List:

Sodium Hydroxide 1310-73-2

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: E

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

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

16) Other Information

HMIS

0	FLAMMABILITY
2	HEALTH
3	REACTIVITY
F	Personal Protection

Hazard Index

4-Severe

3-Serious

2-Moderate

1-Slight

0-Minimal





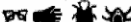






Preparer: Ramsey Johnson

Approved By: Terry L. McAninch

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Personal Protective Index

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B 	F 	J 
C 	G 	K 
D 	H 	X Ask your supervisor

Safety Glasses	Face Shield	Splash Goggles	Airline Hood or Mask	Gloves	Synthetic Apron	Dust Respirator	Vapor Respirator	Dust+Vapor Respirator	Full Suit	Boots
