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SDS

Safety Data Sheet

1) Product Identification

Product Name: KTB 10%

Product Code: I02938

Recommended Use: Custom blended cleaning solution.

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. 5 Skin Corrosion Cat. 3 Eye Effects Cat. 2B	Aquatic Toxicity Acute Cat. 4	

Labeling:**Symbol:**

Signal Word: Warning
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 %
Potassium tetraborate		12045-78-2	<20%

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.

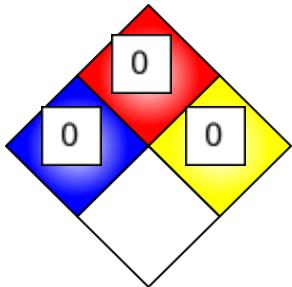
5) Firefighting Measures

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: No unusual hazards.



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. Is a non-hazardous waste when spilled or disposed of, as defined in RCRA 40 CFR 261

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	STEL
Potassium tetraborate (12045-78-2)	15 mg/m ³ (total dust) 5 mg/m ³ (respirable dust)	ACGIH 2 mg/m ³	ACGIH 6 mg/m ³

*All valves are based on powdered material. KTB 10% is a Liquid Product.

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: Clear

Odor: Soapy Odor

pH: 9.6

Freezing Point: <32°F

Boiling Point: 212-220° F

Evaporation Rate: < 1

Vapor Density: > 1

Specific Gravity: 1.06

Solubility: 100%

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: Strong reducing agents, such as metal hydrides or alkali metals, will generate hydrogen gas that could create an explosive hazard.

Hazardous Decomposition Products: N/A

11) Toxicological Information

Acute Toxicity:

Test	Results	Basis
LD50(Rats)	3,500-4,100 mg/kg	Related Study

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

Sub-chronic/Chronic Toxicity:

Test	Results	Comments
N/A	N/A	N/A

Summary Comments: Animal feeding studies using boric acid and/or sodium tetraborate in rat, mouse, and dog, at high doses, has demonstrated effects on fertility and testes. The doses administered were many times in excess of those to which humans would normally be exposed. Human epidemiological studies show no increase in pulmonary disease in occupational populations with chronic exposures to boric acid dust and sodium borate dust. A recent epidemiology study under the conditions of normal occupational exposure to borate dusts indicated no effect on fertility.

Medical conditions aggravated by exposure: N/A

12) Ecological Information

Toxicity:

Test	Results
Green algae 72 hr EC50	40 mg B/L
Daphnia magna 48 hr EC50	133 mg B/L
Catostomas latipinnis 96 hr LC50	74 mg B/L
Earth worm, Eisenia Andrei 56-63 day NOEC	54 mg B/kg dry soil

Persistence and Degradability: Boron is the element in potassium tetraborate tetrahydrate which occurs naturally in sea water and generally occurs in freshwater.

Bioaccumulative Potential: This material is believed not to bioaccumulate.

Mobility in Soil: Potassium Tetraborate is soluble in water and is leachable through normal soil. Potassium Tetraborate decomposes in the environment to natural borate.

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.

14) Transport Information

UN Number: Product is not regulated by DOT

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: No

Chronic: No

Fire: No

Reactive: No

Sudden Release: No

State Regulations:

California Proposition 65: This product is not 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: D2A

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	
Index	
0	FLAMMABILITY
1	HEALTH
0	REACTIVITY
B	Personal Protection

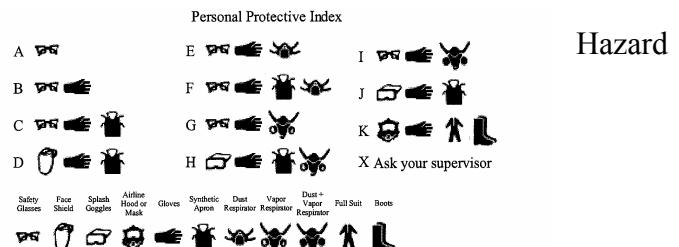
4-Severe

3-Serious

2-Moderate

1-Slight

0-Minimal



Preparer: Ramsey Johnson

Approved By: Terry L. McAninch

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