



your partner in food safety

SDS

Safety Data Sheet

1) Product Identification

Product Name: Bi Tec 55H

Product Code: I00227

Recommended Use: Mild alkaline general purpose cleaner containing quaternary ammonium chloride surfactants.

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

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

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 dimethyl benzyl ammonium chloride		68424-85-1	< 1%
Alkyl dimethyl ethylbenzyl ammonium chloride		8001-54-5	< 1%
Ethanol	Ethyl alcohol	64-17-5	< 1%

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

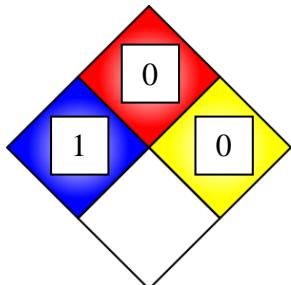
Suitable Extinguishing Media: Water, Carbon Dioxide, Dry Chemical, and Foam Blanket

Unsuitable Extinguishing Media: N/A

Flash Point: > 200°F

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. PO_x and NOx 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	TLV
Ethanol (64-17-5)	OHSA 1900 mg/m ³	ACGIH 1880 mg/m ³

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: Colorless

Odor: Quat

pH: 13.3

Melting Point: Not Established

Freezing Point: Not Established

Boiling Point: 212-220° F

Flash Point: N/A

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: 1.07

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: Acids, Oxidizers, and Strong Alkali

Materials to Avoid: Anionic Surfactants, Metal Salts, Oxidizers, and Strong Alkali.

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

11) Toxicological Information

Acute Toxicity:

Test	Results	Basis
Oral LD50	405 mg/kg	Animal Tests
Dermal LD50	740 mg/kg	Animal Tests

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

Sub-chronic/Chronic Toxicity:

Chemical Name	CAS #	Mutagen	Teratogen	Carcinogens

Denatured Ethanol	64-17-5	Yes	Suspected	Yes
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Summary Comments: Ethanol is confirmed to be a carcinogenic in animals and humans.

Medical conditions aggravated by exposure: N/A

12) Ecological Information

Toxicity:

Test	Results
N/A	N/A

Persistence and Degradability: Very toxic to aquatic organisms.

Bioaccumulative Potential: This material is believed not to bioaccumulate.

Mobility in Soil: This product is 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): N/A

State Regulations:

California Proposition 65: This product contains an ingredient that is listed.

California Hazardous Substance List:

64-17-5 Denatured Ethanol

New Jersey Right to Know Hazardous Substance List:

64-17-5 Denatured Ethanol

Pennsylvania Right to Know: Hazardous Substance List:

64-17-5 Denatured Ethanol

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): This product is considered a pesticide, and is therefore excluded from United States TSCA Regulations.

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

Hazard Index

4-Severe

3-Serious

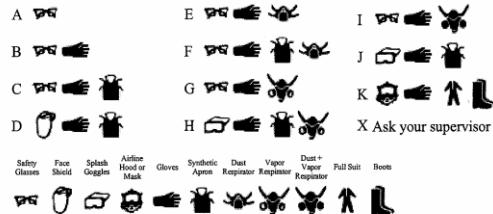
2-Moderate

Slight

0-Minimal

1-

Personal Protective Index



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Approved By: Terry L. McAninch

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