

MATERIAL SAFETY DATA SHEET

SECTION I - CHEMICAL PRODUCT & COMPANY IDENTIFICATION
Identity (As Used on Label and List): Dal-Pro #17 Bio-Tough
Product Class: General purpose cleaner- based on renewable resources
Emergency Telephone Number: 800-255-3924
Telephone Number for Information: 800-950-1975
Manufacturer's Name and Address:
 Dalco
 300 5th Ave. NW
 New Brighton, MN 55112

SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS
Hazardous Components (Specific Chemical Identity):

Chemical	Common Name(s)	%
A	Sodium Carbonate CAS #497-19-8	1 - 5
B	Plant Derived Surfactants CAS #proprietary	4 - 10
C	Water CAS #7732-18-5	60 - 100
D	Bacterial Cultures CAS# N/A	1- 5%

SECTION III - HAZARDS IDENTIFICATION
Emergency Overview
Appearance and Odor: Clear liquid, citrus-lime fragrance
Primary Hazards: Irritant

Potential Health Hazards
Route(s) of Entry: **Skin Absorption:** **Ingestion:** X **Inhalation:**
Eye: May cause irritation on contact.
Skin: May cause irritation on prolonged or repeated contact.
Ingestion: May be harmful if swallowed.
Inhalation: No hazardous vapors.
Signs and Symptoms of Exposure: Irritation on direct contact.
Carcinogenicity: NTP? No **IARC Monographs?** No
OSHA Regulated? No
Target Organ (s): No additional data
Medical Conditions Generally Aggravated by Exposure: N. Av.
Health Hazards, Chronic: N. Av.

SECTION IV - FIRST AID MEASURES
Emergency and First Aid Procedures:
If Swallowed: Do not induce vomiting. If a person can swallow, give several glasses of water. Obtain immediate medical attention. **Eye Contact:** Flush eyes with running water for at least 15 minutes. Obtain medical attention. **Skin Contact:** Flush with cool water. Remove and wash contaminated clothing before reuse. **Inhalation:** Remove to fresh air. If irritation persists, get medical attention.
Sources Used: Raw material data, general toxicology from the trade for similar products.

SECTION V - FIRE FIGHTING MEASURES
Flammability: No **Autoignition Temperature:** N. Ap.
Flash Point (method used): None
Flammable Limits: N. Ap. **LEL** **UEL**
Extinguishing Media N. Ap.
Water? **Foam?** **Water Fog?**
Alcohol Foam? **CO₂?** **Dry Chemical?**
Vaporizing Liquid? **Other?**
Special Fire Fighting Procedures: N. Ap.
Unusual Fire and Explosion Hazards: N. Av.
TDG Flammability Classification: Non-flammable
Sensitivity to Mechanical Impact: None
Sensitivity to Static Discharge: None

SECTION VI - ACCIDENTAL RELEASE MEASURES
Steps to be Taken in Case Material is Released or Spilled:
 Dike and contain spill with inert material (sand, earth, etc). Collect spill with mop, absorbent material (example: floor-dri) or vacuum. Thoroughly rinse affected area with water.

SECTION VII - HANDLING AND STORAGE
Precautions to be Taken in Handling and Storing:
 Normal care in handling and storage.
Other Precautions: Keep out of reach of children. Keep from freezing.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION
Respiratory Protection (Specify Types): Not required
Ventilation: **Local Exhaust:** Not required **Special:** Not required
Mechanical (General): Normal good ventilation sufficient.
Other: Not required
Protective Gloves: Natural rubber or synthetic.
Eye Protection: Approved safety goggles or glasses. **Footwear:** Not required
Other Protective Clothing or Equipment: Not required
Work/Hygienic Practices: Do not contaminate food or beverages with cleaning chemicals.

SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS
Boiling Point: Approximately 195°F **pH:** 11.5 +/- 0.1
Specific Gravity (H2O) = 1: 1.03 **% Volatile:** >80%
Vapor Density (Air = 1): < 1 **Odor Threshold:** N. Av.
Evaporation Rate (Butyl Acetate = 1): N. Av. **Oil/Water Distribution**
Solubility in Water: Complete **Coefficient:** N. Av.
Vapor Pressure (MM HG): N. Av.
Melting Point: N. Ap.

SECTION X - STABILITY AND REACTIVITY
Stability: **Unstable:** **Stable:** X
Conditions to Avoid: N. Ap.
Incompatibility (materials to avoid): N. Av.
Hazardous Decomposition or By-products: N. Av.
Hazardous Polymerization: **May occur:** **Will not occur:** X
Conditions to Avoid: N. Ap.

SECTION XI - TOXICOLOGICAL INFORMATION

Chemical	OSHA PEL	ACGIH TLV	Recom.	LD50	LC50
A	None	None	N. Av.	4,000 mg/kg (rat, oral)	N. Av.
B	10mg/m3	10mg/m3	N. Av.	N. Av.	N. Av.
C	None	None	N. Av.	N. Av.	N. Av.
D	None	None	N. Av.	N. Av.	N. Av.

Teratogen, Mutagen, Reproductive Toxin Status: No
Toxicologically Synergistic Products: N. Av.

SECTION XII - ECOLOGICAL INFORMATION
Ecotoxicological Information: N. Av.
Chemical Fate Information: N. Av.

SECTION XIII - DISPOSAL CONSIDERATIONS
Waste Disposal Method:
 Dispose of spilled material in accordance with local, state and federal regulations. Waste from normal cleaning procedures may be sewer, depending on the materials and/or contaminants being cleaned as well as state, federal and local sewer commission regulations.
RCRA Hazard Class: None

SECTION XIV - TRANSPORT INFORMATION
Shipping Classification: Compound, cleaning liquid, N.O.I.
UN Number: N. Ap.
Packing Group: N. Ap.

SECTION XV - PREPARATION DATA
Prepared By: Hannah Follis
Telephone Number: 651-481-3338
Date: 12/09

SECTION XVI - REGULATORY INFORMATION
US Federal Regulations
TSCA Status: All ingredients listed.
CERCLA Reportable Quality: None
SARA Title III
Section 302 Extremely Hazardous Chemicals: None
Section 311/312 Hazard Category: Immediate health hazard
Section 313 Toxic Chemicals: None
State Regulations
International Regulations
WHMIS Controlled Product Hazard Class: D2B

SECTION XVII - OTHER INFORMATION
 None
 N. Ap. - Not Applicable; N. Av. - Not Available

NFPA SYSTEM
1 A. Health Hazard 0 A. Fire Hazard 0 A. Reactivity Hazard

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