

MATERIAL SAFETY DATA SHEET

Supersedes: 05/23/01

Issue Date: 09/27/01

Issue Date: N/A

SECTION I - CHEMICAL PRODUCT

Identity: **130190**

Brands: DCT FREEZER CLEANER

Hazard Rating: 2

Health: 1

4=EXTREME

Flammability: 2

3=HIGH

Reactivity: 0

2= MODERATE

1=SLIGHT

Emergency Telephone Number: (800) 424-9300 (24-HR – CHEMTREC)

SECTION II - COMPOSITION AND INGREDIENTS

Ingredients/Chemical Name: Propylene glycol and other proprietary ingredients

Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200.

Chemical Name	Common Name	CAS No.	Recommended Limits	Composition Range	LD50/LC50
Propylene glycol	Same	57-55-6	AIHA WEEL: 50 ppm	20 – 80	
TS 1060 – Trade Secret			ACGIH TWA: 400 ppm; 500 ppm STEL OSHA PEL: 500 ppm	1 – 5	
TS 1015 – Trade Secret			ACGIH TWA: 3 ppm; 6 ppm STEL OSHA PEL: 3 ppm	1 - 5	

SECTION III - HAZARDS IDENTIFICATION

Health Hazards (Acute and Chronic):

Ingestion: May be harmful if swallowed.

Eye Contact: May cause temporary eye irritation upon direct contact.

Inhalation: May cause temporary irritation upon prolonged, repeated exposures.

Skin: May cause skin irritation upon prolonged, repeated exposures.

SECTION IV - FIRST AID INFORMATION

Emergency and First Aid Procedures:

Ingestion: Drink large quantities of water or milk. Do not induce vomiting. Seek prompt medical attention.

Eye Contact: Hold eyelids open and flush thoroughly with plenty of water for at least 15 minutes. Seek prompt medical attention.

Skin: Wash skin thoroughly with soap and water. If irritation persists, seek prompt medical attention. If spilled on clothing, change clothes.

Inhalation: For accidental, high level inhalation, remove to fresh air. Get medical attention if irritation persists.

Other: None

SECTION V - FIRE FIGHTING INFORMATION		
Flash Point (Method Used): 112 F (PMCC)	Explosive Limits: LEL: N/K	UEL: N/K
Extinguishing Media: Use CO ₂ , water, or dry chemical.		
Special Fire Fighting Procedures: Firefighters should wear structural firefighting gear and SCBA if exposed to vapors or products of combustion		
Unusual Fire Hazards: OSHA/DOT Combustible Liquid. Keep sides of containers cool with water spray until well after fire is out.		

SECTION VI - ACCIDENTAL RELEASE MEASURES
Personal Precautions: Avoid contact with eyes. Wear personal protective equipment if prolonged exposure and/or splashing is likely.
Environmental Precautions: DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.
Steps To Be Taken in Case Large Quantities of Material are Released or Spilled: Contain spill. Prevent spills from reaching waterways or sewers untreated. Read "Waste Disposal Method" below for further information.

SECTION VII - HANDLING AND STORAGE
Precautions To Be Taken in Handling and Storing: Avoid contact eye and skin contact. Store in dry, cool, well-ventilated area away from incompatibles. Keep container sealed when not in use. Wash thoroughly after handling material. Avoid aerosol formation.
Other Precautions: For Institutional Use Only. Keep out of reach of children.

SECTION VIII – EXPOSURE CONTROLS, PERSONAL PROTECTION
Respiratory Protection (Specify Type): None required with normal use. Avoid creating aerosols in poorly ventilated areas.
Ventilation General
Eye Protection: If splashing or heavy misting is likely, goggles or faceshield may be needed.
Protective Gloves: None required with normal use. Protective gloves (neoprene preferred) may be needed if prolonged, direct contact is anticipated.
Other Protective Equipment: Suitable eyewash facilities

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES	
Boiling Point ° F: NAV	Specific Gravity (H₂O=1): 1.05
Vapor Pressure (mm Hg): N/K	Percent Volatile by Volume (%): N/K
Vapor Density (Air=1): N/K	Evaporation Rate (nBuOAc=1): N/K
Appearance and Odor: Clear, colorless slightly viscous liquid with alcohol smell	pH (F.S.): 10.0 – 10.4
Coefficient of Water/Oil Distribution: N/K	Solubility in Water: Complete

SECTION X – STABILITY AND REACTIVITY

Possible Hazardous Reactions/Conditions: None Known

Conditions to Avoid: None Known

Materials to Avoid: Strong oxidizers

Hazardous Decomposition Products: acrid smoke/irritating fumes

Other Recommendations: None

Stability: Stable

Hazardous Polymerization: Will Not Occur

SECTION XI - TOXICOLOGICAL INFORMATION

Propylene Glycol: LD50: (Oral – Rat): 20 g/kg; (Skin – Hmn): 500 mg/mg/7D MLD; (Skin – Hmn): 104 mg/kg/3D-IMOD; (Eye – Rabbit): 500 mg/24 H MLD; Repeated, excessive ingestion may cause CNS effects.
TS 1060: LD50 (Oral – Rat): 5045 mg/kg; LD50 (Skin – Rabbit): 12800 mg/kg

SECTION XII - ECOLOGICAL INFORMATION

Propylene Glycol: MOVEMENT & PARTITIONING: Bioconcentration potential is low (BCF<100 or Log Pow<3). Log Octanol/water partition coefficient (log Pow) is -0.92. Henry's Law Constant (H) is 1.2E-9 atm.m³/mole. DEGRADATION & PERSISTENCE: Biodegradation under aerobic static laboratory conditions is high (BOD₂₀ or BOD₂₈/ThOD.40%). Biodegradation is expected to be achievable in a secondary wastewater treatment plant. 5-Day biochemical oxygen demand (BOD₅) is 1.16 p/p. 20-Day biochemical oxygen demand (BOD₂₀) is 1.45 p/p. Theoretical Oxygen Demand (ThOD) is calculated to be 1.68 p/p. Inhibitory concentration (IC₅₀) in OECD Activated Sludge Respiration Inhibition Test (OECD Test No. 209) is >1gm/L. Degradation is expected in the atmospheric environment within minutes to hours. ECOTOXICITY: Material is practically non-toxic to aquatic organisms on an acute basis (LC₅₀>100mg/L in most sensitive species). Acute LC₅₀ for fathead minnow (*Pimephales promelas*) is 4600-54900 mg/L. Acute LC₅₀ for guppy (*Poecilia reticulata*) > 10000 mg/L. Acute LC₅₀ for water flea (*Daphnia magna*) is 4850 – 34400 mg/L. Acute LC₅₀ for rainbow trout (*Oncorhynchus mykiss*) is 44 mL/L (about 44000 mg/L).

SECTION XIII - DISPOSAL CONSIDERATIONS

Waste Disposal Method: Small quantities: Contain spill. Any spillage should be cleaned up immediately. Where possible, flush area with plenty of water to drain; otherwise, use inert, non-combustible absorbent and sweep up. Follow all local ordinances. Large Spills (i.e. 50 gallons or more): RCRA-ignitable (D001). Contain, collect, and hold for disposal. Do not allow to enter sewers or waterways untreated. DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

SECTION XIV - TRANSPORT INFORMATION

DOT Classification: Combustible liquids, n.o.s. (contains 2% proprietary flammable liquid), 3, NA1993, PG III, Ltd Qty

SECTION XV - ADDITIONAL REGULATORY INFORMATION

All components are listed on the US TSCA Inventory.

All ingredients are listed on the Canadian DSL Inventory. The Canadian WHMIS classification is: Class DB2 (Stylized T).

SECTION XVI - OTHER INFORMATION

*N/A. - Not Applicable

*N/K. - Not Known

F.S. – Full Strength

The submission of this MSDS may be required by law, but this is not an assertion that the substance is hazardous when used in accordance with proper safety practices and normal handling procedures. Data supplied is for use only in connection with occupational safety and health.

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