

MATERIAL SAFETY DATA SHEET

(COMPLIES WITH 29CFR 1910.1200)

SECTION I - CHEMICAL PRODUCT & COMPANY IDENTIFICATION
Identity (As Used on Label and List): VSS Freezer Clean (FG-C2)
Product Class: Specialty cleaner
Emergency Telephone Number: 800-535-5053 (INFOTRAC)
Telephone Number for Information: 877-577-4050
Manufactured for:
 Ver-tach Solutions & Service
 6801 Bleck Drive
 Rockford MN 55373 USA

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

Chemical	Common Name(s)	%
A	Ethanol Alcohol CAS 64-17-5	10 - 20
B	Propylene Glycol CAS #57-55-8	15 - 25
C	Water CAS #7732-18-5	60 - 100

SECTION III - HAZARDS IDENTIFICATION
Emergency Overview
Appearance and Odor: Red liquid, Fresh fragrance.
Primary Hazards: Poison, Irritant, fire.
Potential Health Hazards
Route(s) of Entry: Skin Absorption: X Ingestion: X Inhalation: X
Eye: May cause irritation on contact.
Skin: May cause irritation on contact. Methanol may be harmful if absorbed through skin.
Ingestion: May be fatal or cause blindness if swallowed.
Inhalation: Overexposure to methanol vapors may be harmful.
Signs and Symptoms of Exposure: Irritation on eye or skin contact. Possible central nervous system depression if swallowed, overexposed to vapors or if absorbed from extended skin contact with liquid.
Carcinogenicity: NTP? No IARC Monographs? No
 OSHA Regulated? No
Target Organ (s): Eyes, skin, liver, kidneys, central nervous system.
Medical Conditions Generally Aggravated by Exposure: Skin, liver and eye disorder.
Health Hazards, Chronic: Eye damage.

SECTION IV - FIRST AID MEASURES
Emergency and First Aid Procedures:
If Swallowed: Give 1 or 2 glasses of water. Call a physician, hospital emergency room or poison control center immediately for instructions to induce vomiting. When medical advice is not available, induce vomiting using Syrup of Ipecac. If Ipecac is unavailable, induce vomiting with finger or back of spoon. Get immediate medical attention.
Eye Contact: Flush eyes with running water for at least 15 minutes. If irritation persists, obtain medical attention.
Skin Contact: Flush thoroughly with cool water. Remove and wash contaminated clothing before reuse.
Sources Used: Raw material data, general toxicology from the trade for similar products.

SECTION V - FIRE FIGHTING MEASURES
Flammability: Flammable **Autoignition Temperature:** N. Av.
Flash Point (method used): 60°F (15°C) FMCC
Flammable Limits: N. Av. LEL UEL
Extinguishing Media
 Water? Foam? Water Fog?
 Alcohol Foam? CO2? Dry Chemical?
 Vaporizing Liquid? Other?
Special Fire Fighting Procedures: Water hose stream may spread fire. Use water spray to keep containers cool.
Unusual Fire and Explosion Hazards: Vapors are heavier than air and may travel over distance to ignition sources.
Sensitivity to Mechanical Impact: None
Sensitivity to Static Discharge: Product above its flashpoint it may emit vapors ignitable by sparks.

SECTION VI - ACCIDENTAL RELEASE MEASURES
Steps to be Taken in Case Material is Released or Spilled:
 Extinguish all sources of possible ignition (flames, sparks, pilot lights, etc.) and provide ventilation. Dike and contain spill with inert material (sand, earth, etc.). Collect spill with mop or absorbent material (example: floor-dri). Thoroughly rinse affected area with water.

SECTION VII - HANDLING AND STORAGE
Precautions to be Taken in Handling and Storing:
 Do not store in areas with electrical sparks or heat.
Other Precautions: Keep out of reach of children. Keep from freezing.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION
Respiratory Protection (Specify Type): An NIOSH/MSHA approved organic vapor respirator should be used in areas where ventilation is insufficient to maintain vapor level below listed TLV.
Ventilation: Local Exhaust: Not required Special: Not required
 Mechanical (General): Ventilate to maintain vapor level below TLV.
 Other: Not required
Protective Gloves: Chemical resistant rubber.

Eye Protection: Approved safety goggles or glasses. **Footwear:** Not required
Other Protective Clothing or Equipment: Not required
Work/Hygiene Practices: Do not contaminate food or beverages with cleaning chemicals.

SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS
Boiling Point: N. Av. **pH:** 7 - 10
Specific Gravity (H2O) = 1: .949 **% Volatile:** > 90
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): Strong oxidizing agents (example: bleach).
Hazardous Decomposition or By-products: CO₂, CO
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	200 ppm (skin)	200 ppm (skin)	N. Av.	N. Av.	N. Av.
B	N. Av.	N. Av.	N. Ap.	27000 mg/kg (rat, oral)	N. Av.
C	None	None	N. Av.	N. Av.	N. Av.

Teratogen, Mutagen, Reproductive Toxin Status: N. Av.
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: D001, characteristic flammable

SECTION XIV - TRANSPORT INFORMATION
Shipping Classification: Flammable liquid, N.O.S. (ethanol alcohol), class 3
UN Number: 1993
Packing Group: II

SECTION XV - PREPARATION DATA
Prepared By: Health and Safety Department
Telephone Number: 763-508-7937
Date: 11-4-2004

SECTION XVI - REGULATORY INFORMATION
US Federal Regulations
TSCA Status: All ingredients listed.
CERCLA Reportable Quantity: > 5,000 lbs. Ethanol
SARA Title III
Section 302 Extremely Hazardous Chemicals: None
Section 311/312 Hazard Category: Immediate health, chronic health, fire.
Section 313 Toxic Chemicals: Ethanol
International Regulations
WHMIS Controlled Product Hazard Class: B2, D1A, D2B

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

NFPA SYSTEM
 2 A. Health Hazard 3 A. Fire Hazard 0 A. Reactivity Hazard

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