PRODUCT NAME: TOTAL
PRODUCT CODE: B013138

MATERIAL SAFETY DATA SHEET

#8840550

HMIS CODES: H F R P
1 0 0 X

========== SECTION 1 - MANUFACTURER IDENTIFICATION ==========

MANUFACTURER'S NAME: VARN PRODUCTS
ADDRESS : 905 S. WESTWOOD AVENUE
ADDISON, ILLINOIS 60101

EMERGENCY PHONE: 800-424-9300
INFORMATION PHONE: 800-336-8276
REASON REVISED: Update; Supersedes all previous revisions.

DATE REVISED: February 1, 2000
NAME OF PREPARER: Varn Products Co.

========== SECTION 2 - HAZARDOUS INGREDIENTS/SARA III INFORMATION ==========

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mm Hg @ TEMP		WEIGHT PERCENT
* Non-Hazardous Water Dissociable Nitrates				<5%
* Ethylene Glycol OSHA PEL: n/e, ACGIH TLV: 100mg/M3 Ceiling as Mist Hazardous Air Pollutant	107-21-1	.12	68°F	4
* Diethylene Glycol Ethyl Ether OSHA PEL: N/E, ACGIH TLV: N/E, Mfg.: 25ppm TWA Hazardous Air Pollutant	111-90-0	.13	68°F	2

* Indicates toxic chemical(s) subject to the reporting requirements of Section 313 of Title III and of 40 CFR 372. All ingredients are listed on the EPA TCSA Inventory.

========== SECTION 3 - PHYSICAL/CHEMICAL CHARACTERISTICS ==========

BOILING RANGE/POINT: >212°F
VAPOR DENSITY: Heavier than air.
V.O.C. (EPA METHOD 24): 0.53 lb/gl
VAPOR PRESSURE (mm Hg @ 20°C): 0.00
SOLUBILITY IN WATER: 100%
APPEARANCE AND ODOR: Blue-Green Liquid - Mild Odor

SPECIFIC GRAVITY (H2O=1): 1.10
EVAPORATION RATE: Slower than water.

========== SECTION 4 - FIRE AND EXPLOSION HAZARD DATA ==========

FLASH POINT: None
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: N/A

METHOD USED: TAG CC
UPPER: N/A

EXTINGUISHING MEDIA: Use any fire extinguishing media.

SPECIAL FIREFIGHTING PROCEDURES:
Under normal conditions this product does not support combustion. However, as in any fire, wear self contained breathing apparatus (MSHA/NIOSH Approved) and full protective (bunker) gear.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
None Known.

SECTION 5 - REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: Avoid conditions of excess heat to prolong shelf life.

INCOMPATIBILITY (MATERIALS TO AVOID): Avoid mixing with strong oxidizing agents.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:
None known.

HAZARDOUS POLYMERIZATION: Will Not Occur.

SECTION 6 - HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:
Not an inhalation hazard in normal industrial use.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:
Skin and eye contact may cause mild to moderate irritation.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:
Prolonged or repeated skin contact may cause irritation.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:
Ingredients in this product are Toxic. Ingestion may cause nausea, moderate gastro-intestinal irritation, diarrhea and possible damage to vital organs. Follow first aid procedures.

HEALTH HAZARDS (ACUTE AND CHRONIC):
This product may cause mild to moderate irritation upon contact with eyes and mild irritation to skin. Ethylene glycol has been identified as a probable birth defect hazard based on laboratory animal data.

CARCINOGENICITY: NTP CARCINOGEN: No **IARC MONOGRAPHS:** No **OSHA REGULATED:** No
This product contains no known carcinogens.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:
Skin contact may aggravate pre-existing dermatitis.

EMERGENCY AND FIRST AID PROCEDURES:
EYES: Hold eyelids open and flush with water for 15 minutes. Contact pysician if irritation persists. SKIN: Wash with soap and water. INGESTION: If victim is fully conscious, induce vomiting as directed by medical personnel. Seek medical attention immediately. INHALATION: Move victim to fresh air. Give oxygen if breathing is labored.

========== SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE ==========

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Clean up small spills with soap water and a mop. Large spills should be diked and kept from entering the sewer. Soak up large spills with absorbant or transfer liquid into a closed container for later disposal.

WASTE DISPOSAL METHOD:
This product contains between 0.15-0.3% tri-valent chromium. If it becomes a waste it is regulated by EPA as Characteristic Waste EPA #D007. Fountain solutions made with this product typically contain between 10-30ppm of tri-valent chromium. See "OTHER PRECAUTIONS" for more information.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:
Store in a cool dry area away from sunlight and excess heat. Protect from freezing. When using or transferring this product, wear proper personal protective equipment.

OTHER PRECAUTIONS/DOT INFORMATION:
DOT Proper Shipping Name: NOT REGULATED, Hazard Class: N/A, UN Number: N/A, Packing Group: N/A
Sewer disposal is governed by EPA Regulations (Clean Water Act) which controls local sewer authorities (POTW). Sewer disposal of spent product may be restricted by discharge limits for specific chemicals set by the POTW and end of pipe chemical levels of the individual user. Check with the local POTW before sewer disposal.

========== SECTION 8 - CONTROL MEASURES ==========

RESPIRATORY PROTECTION:
No special protection is required under normal conditions of use.

VENTILATION:
No special ventilation required.

PROTECTIVE GLOVES: Not required under normal conditions of use. For extended exposure wear gloves made of butyl or nitrile rubber.

EYE PROTECTION: Wear safety glasses with side shields.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:
A personal protective rating of X means you must see your supervisor for guidance. OSHA regulations (29CFR Part 1910, Subpart I) require employers to evaluate Personal Protective Equipment requirements in the workplace.

WORK/HYGIENIC PRACTICES: Wash with soap and water after product contact with skin.

========== SECTION 9 - DISCLAIMER ==========

The information on this MSDS is believed to be accurate as of the date shown in SECTION 1. Since the use of this product is not under the control of Varn, it is the user's responsibility to determine what constitutes safe usage for a particular product. This form may be reproduced in quantities necessary to meet your requirements.