

**MATERIAL SAFETY DATA SHEET**

PRODUCT NAME: TOTAL FOUNTAIN SOLUTION  
PRODUCT CODE: 02138

HMIS CODES: H F R P  
1 0 0 X

=====**SECTION I - MANUFACTURER IDENTIFICATION**=====

MANUFACTURER'S NAME: VARN PRODUCTS  
ADDRESS: 905 SOUTH WESTWOOD, ADDISON, ILLINOIS 60101  
EMERGENCY PHONE: (800) 424-9300 INFORMATION PHONE: (800) 336-8276  
DATE REVISED : 07-10-95 NAME OF PREPARER : VARN PRODUCTS CO.  
REASON REVISED : UPDATE; SUPERSEDES ALL PREVIOUS REVISIONS.

=====**SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION**=====

HAZARDOUS COMPONENTS	CAS NUMBER	OCCUPATIONAL EXPOSURE LIMITS			VAPOR PRESSURE		WEIGHT PERCENT
		OSHA PEL	ACGIH TLV	OTHER	mm Hg @	TEMP	
*DIETHYLENE GLYCOL ETHYL ETHER	111-90-0	N/E	N/E		0.1	68F	2
*ETHYLENE GLYCOL	107-21-1	50 ppm	50 ppm	CEILING	0.1	68F	4

\* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.  
PRODUCT CONTAINS \*4.6% BY WEIGHT OF NON-HAZARDOUS WATER DISSOCIABLE NITRATES WHICH ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF SARA TITLE III. ALL INGREDIENTS LISTED IN THE EPA TSCA INVENTORY.



=====**SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS**=====

BOILING POINT: >212 Deg F SPECIFIC GRAVITY (H2O=1): 1.1  
VAPOR DENSITY: N/A EVAPORATION RATE: SLOWER THAN ETHER  
MATERIAL V.O.C.: 0.53 LB/GL ( 64 G/L)  
SOLUBILITY IN WATER: 100%  
APPEARANCE AND ODOR: BLUE-GREEN LIQUID - MILD ODOR

=====**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**=====

FLASH POINT: NONE METHOD USED: TAG CC  
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: N/A UPPER: N/A

EXTINGUISHING MEDIA: FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG

**SPECIAL FIREFIGHTING PROCEDURES**

AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS (MSHA/NIOSH APPROVED) AND FULL PROTECTIVE GEAR.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

NONE KNOWN.

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SECTION V - REACTIVITY DATA  
=====**STABILITY: STABLE  
CONDITIONS TO AVOID**

AVOID CONDITIONS OF EXCESSIVE HEAT TO INCREASE SHELF LIFE.

**INCOMPATIBILITY (MATERIALS TO AVOID)**

AVOID STRONG OXIDIZING MATERIALS.

**HAZARDOUS DECOMPOSITION OR BYPRODUCTS**

NONE.

**HAZARDOUS POLYMERIZATION: WILL NOT OCCUR**=====  
SECTION VI - HEALTH HAZARD DATA  
=====**INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

NO HAZARD IN NORMAL INDUSTRIAL USE.

**SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

PROLONGED OR REPEATED CONTACT WITH SKIN MAY CAUSE IRRITATION. CONTACT MAY CAUSE EYE IRRITATION.

**SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

SKIN CONTACT MAY RESULT IN ABSORPTION BUT SYMPTOMS OF TOXICITY ARE NOT ANTICIPATED BY THIS ROUTE ALONE UNDER NORMAL CONDITIONS OF USE.

**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 PRODUCE 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? 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: FLUSH WITH WATER FOR 15 MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.

SKIN: WASH WITH SOAP AND WATER.

INHALATION: MOVE TO FRESH AIR.

INGESTION: IF VICTIM IS CONSCIOUS, INDUCE VOMITING AS DIRECTED BY MEDICAL PERSONNEL. OBTAIN MEDICAL ATTENTION IMMEDIATELY.

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

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

SOAK UP ON ABSORBENT MATERIAL OR TRANSFER LIQUID INTO A CLOSED CONTAINER FOR LATER DISPOSAL. DIKE SPILL AND KEEP FROM ENTERING SEWER.

**WASTE DISPOSAL METHOD**

THIS PRODUCT CONTAINS LESS THAN 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 15-30 PPM OF TRI-VALENT CHROMIUM. SEE "OTHER PRECAUTIONS" FOR MORE INFORMATION.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**

STORE IN A COOL, DRY AREA FROM SUNLIGHT AND EXCESS HEAT. KEEP FROM FREEZING. AVOID SKIN CONTACT. WHEN TRANSFERING OR USING THIS PRODUCT, WEAR PROPER PERSONAL PROTECTIVE EQUIPMENT.

**OTHER PRECAUTIONS**

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. CONTAINS NO CHEMICALS POPUND ON THE CALIFORNIA PROPOSITION 65 LIST. DOT PROPER SHIPPING NAME: NOT REGULATED, HAZARD CODE: N/A, UN NUMBER: N/A, PACKING GROUP: N/A

===== SECTION VIII - CONTROL MEASURES =====

**RESPIRATORY PROTECTION**

NO SPECIAL PROTECTION IS REQUIRED UNDER NORMAL CONDITIONS OF USE.

**VENTILATION**

GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT TO CONTROL AIRBORNE LEVELS.

**PROTECTIVE GLOVES**

WEAR GLOVES MADE OF BUTYL 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 REQUIRE EMPLOYERS TO EVALUATE PERSONAL PROTECTIVE EQUIPMENT REQUIREMENTS IN THE WORK PLACE.

**WORK/HYGIENIC PRACTICES**

WASH WITH SOAP AND WATER AFTER HANDLING PRODUCT.

===== SECTION IX - DISCLAIMER =====

**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 IN THE CONTROL OF VARN, IT IS THE USER'S RESPONSIBILITY TO DETERMINE WHAT CONSTITUTES SAFE USAGE FOR A PARTICULAR PURPOSE. THIS FORM MAY BE REPRODUCED LOCALLY IN ANY QUANTITIES NECESSARY TO MEET YOUR REQUIREMENTS.