

MATERIAL SAFETY DATA SHEET

3044

PRODUCT NAME: TOTAL PLUS AR
 PRODUCT CODE: 02112

HMIS CODES: H F R P
 1 1 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 mm Hg @ TEMP	WEIGHT PERCENT
		OSHA PEL	ACGIH TLV	OTHER		
ACETIC ACID	64-19-7	10 ppm	10 ppm	15ppm STEL	11.4 68F	< 5.0%
2-BUTOXY ETHANOL	111-76-2	25ppm SKIN	25ppm SKIN		0.9 77F	13

* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.
 PRODUCT CONTAINS 1.8% BY WEIGHT OF NON-HAZARDOUS WATER DISSOCIABLE NITRATES WHICH ARE SARA TITLE III REPORTABLE.
 2-BUTOXY ETHANOL IS LISTED BY EPA AS A HAZARDOUS AIR POLLUTANT. ALL INGREDIENTS LISTED IN THE EPA TSCA INVENTORY.

<input type="checkbox"/> H <input type="checkbox"/> F <input type="checkbox"/> D	CHEMICAL NAME	Total Plus AR
	MANUFACTURER	Varn Products
<input checked="" type="checkbox"/> PE	DATE	12/20/06

Lab Safety Supply Inc. Reorder No. 17135

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

BOILING POINT: >212 Deg F SPECIFIC GRAVITY (H2O=1): 1.0
 VAPOR DENSITY: N/A EVAPORATION RATE: SLOWER THAN ETHER
 MATERIAL V.O.C.: 2.42 LB/GL (290 G/L)
 SOLUBILITY IN WATER: 100%
 APPEARANCE AND ODOR: BLUE-GREEN LIQUID - MILD ODOR

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

FLASH POINT: >200 DegF 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 EXPOSURESKIN CONTACT MAY RESULT IN ABSORPTION AND POTENTIALLY CONTRIBUTE TO THE OVERALL EXPOSURE TO THE CHEMICAL
2-BUTOXY ETHANOL.**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. NO CHRONIC
EFFECTS ARE KNOWN OR EXPECTED.**CARCINOGENICITY: NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? YES**

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.

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===== 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 0.15% 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 10-15 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 FOUND ON THE CALIFORNIA PROPOSITION 65 LIST.

DOT PROPER SHIPPING NAME: NOT REGULATED, HAZARD CLASS: 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 WORKPLACE.

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.