

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: REVITOL
PRODUCT CODE: B014220

HMIS CODES: H F R P
1 2 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 : 10-25-96 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		
*ETHYLENE GLYCOL	107-21-1	50 ppm	50 ppm	CEILING	0.1 68F	2
*2-BUTOXY ETHANOL	111-76-2	25ppm SKIN	25ppm SKIN		0.8 68F	4
ISOPROPANOL	67-63-0	400 ppm	400 ppm	500ppmSTEL	31.2 68F	10

* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.
ETHYLENE GLYCOL AND 2-BUTOXY ETHANOL ARE LISTED BY EPA AS HAZARDOUS AIR POLLUTANTS.
ALL INGREDIENTS ARE LISTED ON THE EPA TSCA INVENTORY

=====**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.: 1.12 LB/GL (135 G/L)
SOLUBILITY IN WATER: 60% VAPOR PRESSURE: 0.80 mmHg @ 20 Deg C
APPEARANCE AND ODOR: STRAW COLORED LIQUID - MILD ODOR

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

FLASH POINT: 116 Deg F METHOD USED: TAG CC
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 2.0% UPPER: 12.0%
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.

===== 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

DILUTED MATERIAL MAY MEET SEWER DISPOSAL GUIDELINES IN SOME LOCALITIES. DO NOT POUR UNDILUTED CONCENTRATE, AS SUPPLIED, DOWN SEWER. 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. KEEP FROM FREEZING. AVOID BREATHING MIST OR VAPORS. AVOID SKIN CONTACT.

WHEN TRANSFERING OR USING THIS PRODUCT, WEAR PROPER PERSONAL PROTECTIVE EQUIPMENT.

OTHER PRECAUTIONS

DOT PROPER SHIPPING NAME: COMBUSTIBLE LIQUID N.O.S. (ISOPROPANOL), HAZARD CLASS: COMBUSTIBLE LIQUID, UN NUMBER: NA1993, PACKING GROUP: III. PRODUCT IS CLASSIFIED AS AN OSHA CLASS II COMBUSTIBLE LIQUID. 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 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 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 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 UNDER 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.

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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

BURNING WILL PRODUCE OXIDES OF CARBON AND DENSE SMOKE.

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

HARMFUL IF ABSORBED THROUGH THE SKIN. SKIN CONTACT WILL 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. 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.