

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: TYPE WASH
PRODUCT CODE: B010021

HMIS CODES: H F R P
2 3 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 : 08-28-96 **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		
*TOLUENE	108-88-3	100 ppm	50 ppm	SKIN	38.0 68F	54
*N-HEXANE AND MIXED ISOMERS	110-54-3	50 ppm	50 ppm	100 ppm	140.0 68F	21
ISOPROPANOL	67-63-0	400 ppm	400 ppm	500ppmSTEL	31.2 68F	25

* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.
TYPE WASH CONTAINS 13.3% BY WEIGHT OF n-HEXANE WHICH IS A COMPONENT OF n-HEXANE AND MIXED ISOMERS CAS# 110-54-3.
TOLUENE & n-HEXANE ARE LISTED BY EPA AS HAZARDOUS AIR POLLUTANTS. ALL INGREDIENTS LISTED IN EPA'S TSCA INVENTORY.

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

BOILING RANGE: 154 to 232 Deg F **SPECIFIC GRAVITY (H2O=1):** 0.8
VAPOR DENSITY: HEAVIER THAN AIR **EVAPORATION RATE:** SLOWER THAN ETHER
MATERIAL V.O.C.: 6.69 LB/GL (802 G/L)
SOLUBILITY IN WATER: LESS THAN 25% **VAPOR PRESSURE:** 55.8 mmHg @ 20 Deg C
APPEARANCE AND ODOR: CLEAR LIQUID - MILD PETROLEUM ODOR

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

FLASH POINT: <20 Deg F **METHOD USED:** TAG CC
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 1.0% **UPPER:** 12.0%

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

SPECIAL FIREFIGHTING PROCEDURES

AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS (MSHA/NIOSH APPROVED) AND FULL PROTECTIVE GEAR. WATER MAY NOT BE EFFECTIVE TO EXTINGUISH FIRE. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS AND TO PROTECT PERSONNEL.

UNUSUAL FIRE AND EXPLOSION HAZARDS

TREAT AS PETROLEUM FIRE. VAPORS CAN TRAVEL TO SOURCE OF IGNITION AND FLASH BACK.

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

AVOID EXCESS HEAT AND SOURCES OF IGNITION.

INCOMPATIBILITY (MATERIALS TO AVOID)

AVOID MIXING WITH 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**

EXCESSIVE VAPOR CONCENTRATIONS ARE ATTAINABLE. OVEREXPOSURE WILL IRRITATE THE NOSE, THROAT, LUNGS AND CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION WITH SYMPTOMS SUCH AS DROWSINESS, DIZZINESS AND UNCONSCIOUSNESS.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

SKIN AND EYE CONTACT MAY PRODUCE MODERATE TO SEVERE IRRITATION.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

THERE IS POTENTIAL FOR EXPOSURE BY ABSORPTION THROUGH THE SKIN, MUCOUS MEMBRANES AND EYES WHICH COULD CONTRIBUTE TO THE OVERALL EXPOSURE TO THE CHEMICAL TOLUENE WHICH HAS BEEN SHOWN TO BE A DEVELOPMENTAL TOXICANT.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

INGESTION MAY PRODUCE GASTRO-INTESTINAL IRRITATION, AND POSSIBLE DAMAGE TO VITAL ORGANS. FOLLOW FIRST AID PROCEDURES.

HEALTH HAZARDS (ACUTE AND CHRONIC)

THIS PRODUCT CONTAINS N-HEXANE. REPEATED OR ABUSIVE BREATHING OF CONCENTRATED VAPORS MAY EFFECT PULMONARY, CARDIOVASCULAR, CENTRAL NERVOUS SYSTEM AND MAY CAUSE PROGRESSIVE AND POTENTIALLY IRREVERSIBLE DAMAGE TO THE PERIPHERAL NERVOUS SYSTEM, PARTICULARLY IN THE ARMS AND LEGS. SKIN CONTACT WILL DRY AND CRACK THE SKIN. ASPIRATION HAZARD IF SWALLOWED; ASPIRATION OF MATERIAL INTO THE LUNGS CAN CAUSE CHEMICAL PNEUMONITIS.

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. INHALATION MAY AGGRAVATE PRE-EXISTING ASTHMA-LIKE CONDITIONS.

EMERGENCY AND FIRST AID PROCEDURES**EYES:** HOLD EYELID OPEN AND FLUSH WITH WATER FOR 15 MINUTES. CONTACT A PHYSICIAN IF IRRITATION PERSISTS.**SKIN:** WASH WITH SOAP AND WATER.**INGESTION:** DO NOT INDUCE VOMITING. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQUID INTO THE LUNGS. SEEK MEDICAL ATTENTION IMMEDIATELY.**INHALATION:** MOVE TO FRESH AIR. GIVE OXYGEN IF BREATHING IS LABORED.

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SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE
=====**PRECAUTIONS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

ELIMINATE ALL IGNITION SOURCES. SPILLS SHOULD BE DIKED AND KEPT FROM ENTERING THE SEWER. SOAK UP WITH ABSORBENT OR TRANSFER LIQUID INTO A CLOSED CONTAINER FOR LATER DISPOSAL. USE SPARK-PROOF TOOLS AND EXPLOSION PROOF EQUIPMENT.

WASTE DISPOSAL METHOD

IF USED PRODUCT BECOMES A WASTE IT IS REGULATED BY RCRA AS SPENT NON-HALOGENATED SOLVENT, EPA I.D. #F005. SUITABLE METHODS OF DISPOSAL INCLUDE RECLAMATION AND FUEL BLENDING. CONTACT A LICENSED HAZARDOUS WASTE HAULER FOR MORE INFORMATION.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

CONTAINERS SHOULD BE GROUNDED AND BONDED BEFORE TRANSFERRING PRODUCT. STORE IN THE ORIGINAL CLOSED CONTAINER AWAY FROM SUNLIGHT, EXCESS HEAT, AND SOURCES OF IGNITION. AVOID SKIN CONTACT. AVOID BREATHING VAPORS. WHEN TRANSFERRING OR USING THIS PRODUCT, WEAR PROPER PERSONAL PROTECTIVE EQUIPMENT. PRODUCT IS EXTREMELY FLAMMABLE.

OTHER PRECAUTIONS

CALIFORNIA PROPOSITION 65: THE FOLLOWING STATEMENT IS MADE IN ORDER TO COMPLY WITH THE CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986: WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

DOT PROPER SHIPPING NAME: COMPOUNDS, CLEANING LIQUID (TOLUENE), HAZARD CLASS 3, UN NUMBER: NA1993, PACKING GROUP: II, RQ TOLUENE: (1000LBS.) PRODUCT IS CLASSED AS AN OSHA CLASS IB FLAMMABLE LIQUID.

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SECTION VIII - CONTROL MEASURES
=====**RESPIRATORY PROTECTION**

WHEN CONCENTRATIONS EXCEED THE ESTABLISHED EXPOSURE LIMITS IN SECTION II, USE A RESPIRATOR WITH APPROPRIATE ORGANIC CARTRIDGES (NIOSH APPROVED).

VENTILATION

IF CURRENT VENTILATION IS INADEQUATE TO MAINTAIN CONCENTRATIONS BELOW THE ESTABLISHED EXPOSURE LIMITS IN SECTION II, ADDITIONAL VENTILATION OR LOCAL EXHAUST SYSTEMS ARE REQUIRED. EXPLOSION PROOF ELECTRICAL SYSTEMS MUST BE USED.

PROTECTIVE GLOVES

WEAR SOLVENT RESISTANT GLOVES MADE OF NITRILE OR 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 (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.

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

THE INFORMATION ON THIS MSDS IS BELIEVED TO BE ACCURATE AS OF THE DATE SHOWN IN SECTION I. 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.