

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: FILM CLEANER
PRODUCT CODE: B015224

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 : 06-19-96 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		WEIGHT PERCENT
		OSHA PEL	ACGIH TLV	OTHER	mm Hg @	TEMP	
*N-HEXANE AND MIXED ISOMERS	110-54-3	50 ppm	50 ppm	100 ppm	140.0	68F	89
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.
FILM CLEANER CONTAINS 5% BY WEIGHT OF n-HEXANE WHICH IS A COMPONENT OF N-HEXANE AND MIXED ISOMERS CAS# 110-54-3.
n-HEXANE IS LISTED BY EPA AS A HAZARDOUS AIR POLLUTANT. ALL INGREDIENTS LISTED IN THE EPA TSCA INVENTORY.

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

BOILING RANGE: 154 to 180 Deg F SPECIFIC GRAVITY (H2O=1): 0.7
VAPOR DENSITY: HEAVIER THAN AIR EVAPORATION RATE: SLOWER THAN ETHER
MATERIAL V.O.C.: 5.83 LB/GL (699 G/L)
SOLUBILITY IN WATER: LESS THAN 10% VAPOR PRESSURE: 123.1 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, CO2, DRY CHEMICAL

SPECIAL FIREFIGHTING PROCEDURES

AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS (MSEA/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.

===== 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

A SINGLE, PROLONGED EXPOSURE IS NOT LIKELY TO RESULT IN THE MATERIAL BEING ABSORBED THROUGH THE SKIN IN HARMFUL AMOUNTS.

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)

REPEATED OR ABUSIVE BREATHING OF CONCENTRATED VAPORS MAY EFFECT PULMONARY, CARDIOVASCULAR, CENTRAL NERVOUS SYSTEM. OVER EXPOSURE TO n-HEXANE MAY CAUSE PROGRESSIVE AND POTENTIALLY IRREVERSIBLE DAMAGE TO THE PERIPHERAL NERVOUS SYSTEM, PARTICULARLY IN THE ARMS AND LEGS. REPEATED SKIN CONTACT WILL DRY OUT AND CRACK SKIN. ASPIRATION HAZARD IF SWALLOWED; ASPIRATION OF LIQUID 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 LUNGS. SEEK MEDICAL ATTENTION IMMEDIATELY.

INHALATION: MOVE TO FRESH AIR. GIVE OXYGEN IF BREATHING IS LABORED.

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

STEPS 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 THIS PRODUCT, AS RECEIVED, BECOMES A WASTE IT IS REGULATED BY RCRA AS IGNITABLE WASTE, EPA I.D. #D001. 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, SPARKS, FLAMES, AND OTHER SOURCES OF IGNITION. AVOID SKIN CONTACT. AVOID BREATHING VAPORS. WHEN TRANSFERRING OR USING THIS PRODUCT, WEAR PROPER PERSONAL PROTECTIVE EQUIPMENT.

OTHER PRECAUTIONS

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

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

RESPIRATORY PROTECTION

THE USE OF RESPIRATORY PROTECTION IS ADVISED WHEN CONCENTRATIONS EXCEED THE ESTABLISHED EXPOSURE LIMITS IN SECTION II, USE A RESPIRATOR EQUIPPED WITH APPROPRIATE ORGANIC VAPOR 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 SYSTEM IS REQUIRED. EXPLOSION PROOF ELECTRICAL SYSTEM 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.

===== 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.