

MATERIAL SAFETY DATA SHEET

FILM CLEANER

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===== SECTION I - PRODUCT IDENTIFICATION =====

PRODUCT NAME: FILM CLEANER

HMIS CODES: H F R P

PRODUCT CODE: D015224

2 3 0 X

PRODUCT USE : Film Cleaner

WHMIS CLASSIFICATION: B2, D2B

MANUFACTURER'S NAME: VARN PRODUCTS COMPANY, INC.

115 ADVANCE BOULEVARD

BRAMPTON, ONTARIO L6T 4H9

CANADA

EMERGENCY PHONE: 613-996-6666 CANUTEC

DATE PRINTED: July 1, 2000

INFORMATION PHONE: 905-792-8900

NAME OF PREPARER: VARN PRODUCTS CO.

===== SECTION II - HAZARDOUS INGREDIENTS =====

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE kPa Hg @ TEMP	WEIGHT PERCENT
* n-HEXANE	110-54-3		57.0
OSHA PEL: 500ppm, ACGIH TLV: 50ppm, Oral LD50(Rat): N/AV			
HEXANE MIXED ISOMERS	MIXTURE	18.6 20°C	33.0
OSHA PEL: N/E, ACGIH TLV: 500ppm TWA, Oral LD50(Rat): N/AV			
* ISOPROPANOL	67-63-0	4.15 20°C	10.0
OSHA PEL: 400ppm, ACGIH TLV: 400ppm, STEL: 500ppm, Oral LD50(RAT): N/AV			

* Indicates chemical(s) which may be subject to reporting on the National Pollutant Release Inventory under Section 16 of the Canadian Environmental Protection Act.

All ingredients listed on CEPA Domestic Substance List (DSL) and USEPA TSCA inventory. N/E = Not Established, N/AV = Not Available

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

BOILING POINT/RANGE: 68°C - 82°C

SPECIFIC GRAVITY (H2O=1): 0.69

VAPOR DENSITY: Heavier Than Air

EVAPORATION RATE: Faster than n-Butyl Acetate

V.O.C. (EPA METHOD 24): 690 g/l

SOLUBILITY IN WATER: Less than 10%

APPEARANCE AND ODOR: Clear Liquid - Solvent Odour

FREEZING POINT: < -20°C

pH: Not Applicable

COEFFICIENT OF WATER/OIL DIST: N/E

ODOUR THRESHOLD: > 20 ppm

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

FLASH POINT: < -6.7°C

METHOD USED: TAG CC

FLAMMABLE LIMITS IN AIR BY VOLUME - LOWER: 1.0%

UPPER: 12.0%

EXTINGUISHING MEDIA: Foam, Alcohol Foam, CO2

SPECIAL FIREFIGHTING PROCEDURES

As in any fire, wear self-contained breathing apparatus, (MSHA 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 a Petroleum fire. Vapors can travel to source of ignition and flashback.

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T.D.G.R. CLASS: FLAMMABLE LIQUID, n.o.s. (Hexane), Class 3, UN 1993,
Packing Group II

SENSITIVITY TO IMPACT: This product is not sensitive to impact.

SENSITIVITY TO STATIC DISCHARGE: Transferring this product from one container to another may generate a static electric charge.

===== SECTION V - REACTIVITY DATA =====

STABILITY: Stable

CONDITIONS TO AVOID: Avoid excess heat and sources of ignition.

INCOMPATIBILITY (MATERIALS TO AVOID): Avoid mixing with strong oxidizers.

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 cause irritation of the nose and throat and signs of nervous system depression such as headache, drowsiness, dizziness and unconsciousness.

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

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 of this product will cause nausea, gastro-intestinal irritation, diarrhea 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. Repeated skin contact will dry and crack the skin. **ASPIRATION HAZARD IF SWALLOWED;** Aspiration of material into the lungs can cause chemical pneumonitis.

CARCINOGENICITY: NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No
This product contains no known carcinogens.

TERATOGENICITY: This product contains no chemicals known to cause birth defects.

MUTAGENICITY: This product contains no chemicals known to cause damage to chromosomes.

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TOXICOLOGICALLY SYNERGISTIC PRODUCTS: There is no data available.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Skin contact may aggravate pre-existing dermatitis. Inhalation may aggravate pre-existing asthma-like conditions.

===== SECTION VII - EMERGENCY AND FIRST AID PROCEDURES =====

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Remove victim to fresh air. Give oxygen if breathing is labored. Apply artificial respiration if not breathing. Seek medical help.
SKIN: Remove all contaminated clothing and shoes. Wash with soap and water. DO NOT reuse clothing or shoes until cleaned.
EYES: Flush eyes with plenty of water while removing contact lenses. Hold eyelids open and continue flushing for at least 15 minutes.
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.

===== SECTION VIII - 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 supplied, becomes a waste it is regulated by the Canadian Environmental Protection Act as Ignitable Waste. 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 eye or skin contact. Avoid breathing vapors.

OTHER PRECAUTIONS

When transferring or using this product, wear proper personal protective equipment. Keep product away from sparks, flames and other sources of ignition. Handle as a **FLAMMABLE LIQUID**. Contact lenses should not be worn when working with this product.

===== SECTION IX - CONTROL MEASURES =====

RESPIRATORY PROTECTION

The use of respiratory protection is advised when concentrations exceed the established exposure limits in Section II. Depending on the airborne concentration, use a respirator 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 systems are required. Explosion proof electrical systems must be used.

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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. WHMIS regulations require employers to evaluate personal protective equipment requirements in the workplace.

WORK/HYGIENIC PRACTICES

Wash with soap and water after handling product.

===== **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 local requirements.