

MATERIAL SAFETY DATA SHEET

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GENERAL INFORMATION # : 314-647-1888
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I-PRODUCT IDENTIFICATION

DOES IT ALL

PRODUCT CODE: #076

CHEMICAL FORMULATION: PENETRANT, DE-MOISTURANT & LUBRICANT

NFPA HAZARD IDENTIFICATION SYSTEM: HEALTH: 2 FLAMMABILITY: 0 REACTIVITY: 0

HAZARD RATING: 4 - Extreme; 3 - High; 2 - Moderate; 1 - Slight; 0 - Insignificant

II - HAZARDOUS INGREDIENTS

Hazardous Components (Specific Chemical Identity; Common Name (s))	CAS No.	OSHA PEL	ACGIH TLV	Other Limits Recommended	% optional
*PERCHLOROETHYLENE	127-18-4	25 PPM	50 ppm	STEL-200 ppm	60-85
CARBON DIOXIDE	124-38-9	10000 ppm	5000 ppm	STEL-30,000 PPM	
PETROLEUM OIL	MIXTURE	5 mg/m ³	5 mg/m ³	STEL-10 mg/m ³	

* This product contains perchloroethylene (syn. Tetrachloroethylene) which is listed and may require reporting under SARA Title III Sec 313 if used over the threshold reporting quantity. This information must be included in all MSDSs that are copied and distributed for this material.

Any substance listed as hazardous by the States of California, Florida, Illinois, Michigan, New Jersey, Ohio, Pennsylvania or Texas is described above if known present in regulated concentrations.

Key: PEL: Permissible Exposure Limit TLV: Threshold Limit Value C: Ceiling Level STEL: Short Term Exposure Limit
N/A: Not Applicable N/D: Not Determined N/E: Not Established Y: Yes N: No

302: CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4).

355: SARA TITLE III/ List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355).

372: SARA TITLE III/ List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372).

III - PHYSICAL DATA

BOILING POINT (°F): 250°F	MELTING POINT: NO DATA
VAPOR PRESSURE (@ 70°F): 60±5	SPECIFIC GRAVITY (WATER = 1): 1.54
VAPOR DENSITY (AIR = 1): GREATER THAN ONE(1)	VOC CONTENT (% by weight):
SOLUBILITY IN WATER: INSOLUBLE	EVAPORATION RATE (Water = 1): NO DATA
	pH: N/A
APPEARANCE AND ODOR: CLEAR AMBER LIQUID WITH A CHLORINATED SOLVENT/WINTERGREEN IN AN AEROSOL CONTAINER.	

IV - FIRE AND EXPLOSION HAZARD

FLASH POINT (°F): NON FLAMMABLE

(TEST METHOD):

FLAMMABLE LIMITS: N/A

UPPER: N/A

LOWER: N/A

EXTINGUISHING MEDIA: NOT USUALLY NECESSARY AS THIS PRODUCT DOES NOT READILY SUPPORT COMBUSTION. USE EXTINGUISHING AGENT APPROPRIATE FOR FIRE'S FUEL SOURCE (I.E. CARBON DIOXIDE DRY CHEMICAL, FOAM, FOG, ETC.)

SPECIAL FIRE FIGHTING PROCEDURES: USE WATER SPRAY TO KEEP CONTAINERS COOL AND VAPORS DOWN. DO NOT ALLOW RUNOFF TO ENTER SEWERS OR PUBLIC WATERSOURCES. WEAR SELF-CONTAINED BREATHING APPARATUS IN CHEMICAL FIRES.

UNUSUAL FIRE AND EXPLOSION HAZARD: AEROSOL CONTAINER (PRESSURIZED) MAY BURST IF HEATED OVER 120°F.

V - REACTIVITY DATA

STABILITY:	STABLE
INCOMPATIBILITY:	STRONG OXIDIZERS, ACIDS AND ALKALIES, AND ALKALI METALS.
CONDITIONS TO AVOID:	EXTREME HEAT, DIRECT SUNLIGHT
HAZARDOUS DECOMPOSITION OR BYPRODUCTS:	CARBON DIOXIDE, CARBON MONOXIDE, SULFUR OXIDES, ALDEHYDES, PHOSGENE, HYDROGEN CHLORIDE, CHLORINE, SOOT AND SMOKE.
HAZARDOUS POLYMERIZATION:	WILL NOT OCCUR
CONDITIONS TO AVOID:	NONE KNOWN

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VI - HEALTH AND HAZARD DATA

ROUTES OF ENTRY: INHALATION? YES SKIN? YES INGESTION? YES EYES? YES

HEALTH HAZARDS (ACUTE AND CHRONIC) - WARNING. CAUSES EYE AND SKIN IRRITATION. HARMFUL IF INHALED OR SWALLOWED. MAY BE ABSORBED THROUGH INTACT SKIN. ASPIRATION HAZARD IF INGESTED. MAY PRODUCE CONJUNCTIVITIS WITH DIRECT EYE CONTACT. CENTRAL NERVOUS SYSTEM EFFECTS POSSIBLE. FOLLOW GOOD CHEMICAL HYGIENE PRACTICES TO AVOID THESE HAZARDS.

CARCINOGENICITY? YES, PERCHLOROETHYLENE NTP? YES IARC MONOGRAPHS? YES (GROUP 2B)

OSHA REGULATED? YES

EFFECTS OF OVEREXPOSURE

IF IN EYES: BURNING, TEARING, REDNESS IN EYES.

IF ON SKIN: REDNESS, DRYING OR CRACKING SKIN.

IF SWALLOWED: ANESTHETIC OR NARCOTIC EFFECTS POSSIBLE.

IF INHALED: IRRITATION OF NOSE, THROAT AND GASTROINTESTINAL TRACT. DROWSINESS, DIZZINESS, LOSS OF COORDINATION OR FATIGUE.

EMERGENCY AND FIRST AID PROCEDURES

IF IN EYES: FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES LIFTING EYELIDS TO INSURE COMPLETE REMOVAL. GET IMMEDIATE MEDICAL ATTENTION.

IF ON SKIN: WASH THOROUGHLY WITH SOAP AND WATER. IF IRRITATION ARISES AND PERSISTS, CALL A PHYSICIAN

IF SWALLOWED: DO NOT INDUCE VOMITING UNLESS UNDER THE DIRECTION OF A PHYSICIAN. GET IMMEDIATE EMERGENCY MEDICAL ATTENTION.

IF INHALED: GET TO FRESH AIR. IF BREATHING HAS STOPPED, QUALIFIED PERSONNEL SHOULD ADMINISTER ARTIFICIAL RESPIRATION.

VII - SPILL AND LEAK PROTECTION

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: CAUTION, SLIP HAZARD. WIPE UP SMALL SPILLS WITH AN ABSORBENT MATERIAL. FOR LARGE SPILLS, ISOLATE TRAFFIC AND VENTILATE AREA. ELIMINATE ALL IGNITION SOURCES. WEAR PROTECTIVE GEAR AS NECESSARY. DIKE TO PREVENT SPREAD. PICK UP WITH A SUITABLE DETERGENT OR SAFETY SOLVENT.

WASTE DISPOSAL METHOD: CONSULT LOCAL, STATE AND FEDERAL REGULATIONS. DO NOT PUNCTURE OR INCINERATE CONTAINER. REPLACE CAP ON EMPTY CAN, WRAP, THEN DISCARD CONTAINER IF ALLOWED BY APPLICABLE STATUTES.

VIII - SPECIAL PROTECTION INFORMATION

VENTILATION: Local Exhaust: NOT USUALLY NECESSARY
Mechanical (General): ACCEPTABLE Special: NONE OTHER: NONE

RESPIRATORY PROTECTION: NOT USUALLY NECESSARY. USE WITH ADEQUATE VENTILATION. IF PELs OR TLVs ARE EXCEEDED (SEE SECTION II), USE AN APPROVED NIOSH/MSHA RESPIRATOR.

PROTECTIVE GLOVES: YES, WHEN CONTACT IS POSSIBLE.

EYE PROTECTION: YES, APPROVED SAFETY GLASSES OR GOGGLES (ANSI z 87)

OTHER PROTECTIVE EQUIPMENT: ONLY WHEN DIRECT CONTACT IS POSSIBLE. USE APPROPRIATE SAFETY GEAR SUCH AS APRON, BOOTS, FACE SHIELD, ETC. WHEN POSSIBLE.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: AVOID CONTACT WITH EYES, SKIN AND CLOTHING WASH THOROUGHLY AFTER HANDLING. DO NOT SWALLOW. AVOID INHALING MIST AND VAPORS. STORE IN A COOL (UNDER 120°F) DRY LOCATION AWAY FROM HEAT, SPARKS OPEN FLAME, AND DIRECT SUNLIGHT. DIRECT SPRAY AWAY FROM FACE. DO NOT PUNCTURE CONTAINER.

OTHER PRECAUTIONS: FOLLOW LABEL DIRECTIONS CAREFULLY. KEEP OUT OF REACH OF CHILDREN. DO NOT DELIBERATELY CONCENTRATE AND INHALE VAPORS. REPLACE CAP WHEN NOT IN USE. DO NOT USE AROUND IGNITION SOURCES SUCH AS HEAT, SPARKS, OPEN FLAME, ETC.

WORK/HYGIENIC PRACTICES - NORMAL. WASH THOROUGHLY BEFORE EATING, DRINKING, SMOKING, ETC.

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