

US DEPARTMENT OF LABOR

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

MATERIAL SAFETY DATA SHEET

SECTION I - GENERAL DATA

MANUFACTURER: LOES ENTERPRISES INC.  
1457 IGLEHART AVE.  
ST. PAUL, MN. 55104

PRODUCT NAME: PATCH  
PRODUCT NUMBER: VP467 series  
CHEMICAL FAMILY: KETONE/FURAN

EMERGENCY # (651)646-1385  
(800)255-3924

HAZARD RATINGS: HEALTH:2  
FIRE:3  
REACTIVITY:0

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	CAS#	OSHA-PEL	ACGIH-TLV
Methyl Ethyl Ketone	78-93-3	200 ppm	200 ppm
Tetrahydrofuran	109-99-9	200 ppm	200 ppm

SECTION III- PHYSICAL DATA

BOILING POINT: N/A  
VAPOR PRESSURE (mm Hg. at 20deg.C): 129  
VAPOR DENSITY (AIR = 1): 2.5  
SPECIFIC GRAVITY: 0.9  
PERCENT VOLATILE VOLUME: 58%  
SOLUBILITY IN WATER: N/D  
EVAPORATION RATE (BUTYL ACETATE = 1): 6  
APPEARANCE AND ODOR: various colors  
PUNGENT ETHER-LIKE ODOR

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT 4 F TCC FLAMMABLE LIMITS LEL:UEL 1.8 : 11.8

EXTINGUISHING MEDIA: Foam, carbon dioxide, dry chemical, water fog

SPECIAL FIREFIGHTING PROCEDURES: Wear self-contained breathing apparatus and standard fire fighting protective clothing

UNUSUAL FIRE & EXPLOSION HAZARDS: Vapors may be ignited by pilot lights or other ignition sources remotely located from material handling point.

N/A = NOT APPLICABLE N/D = NOT DETERMINED

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SECTION V - REACTIVITY DATA

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STABILITY: Stable  
HAZARDOUS POLYMERIZATION: Will not occur  
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide, carbon monoxide,  
various hydrocarbons

CONDITIONS TO AVOID: Excessive heat, poor ventilation  
INCOMPATIBILITY: Strong oxidizing agents

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SECTION VI - SPILL OR LEAK PROCEDURES

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STEPS TO BE TAKEN IN CASE OF SPILL: Eliminate all ignition sources.  
Ground handling equipment to prevent sparking. Dike area to contain  
spill, salvage as much as possible for reuse, use absorbant to clean  
up remainder or small spills  
WASTE DISPOSAL METHOD: In accordance with local, state, and federal  
regulations  
MEK/THF ARE LISTED HAZARDOUS WASTE 40CFR261 WASTE #'S ARE U159/U213

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SECTION VII - HEALTH DATA

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ROUTES OF ENTRY: Eyes: possible Skin: possible  
Inhalation: most likely Ingestion: not likely

EFFECTS OF OVEREXPOSURE: EYES - May cause irritation  
SKIN - May cause irritation, defatting, or dermatitis  
INHALATION - May cause irritation of respiratory tract, narcosis,  
headaches, nausea, dizziness, fatigue or unconsciousness.  
INGESTION - May cause nausea, cramps, and diarrhea

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FIRST AID: EYES - Immediately flush with plenty of water. Get  
medical attention.  
SKIN - Remove contaminated clothing and launder before reusing.  
Wash affected area with plenty of soap and water.  
INHALATION - Remove to fresh air. If necessary, give artificial  
respiration. Get medical attention.  
INGESTION - Do not induce vomiting and dilute by drinking water.  
Never give liquids to an unconscious person. Get medical attention.

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SECTION VIII - SPECIAL PROTECTION INFORMATION

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RESPIRATORY PROTECTION: NIOSH/MSHA approved respirator suitable for  
concentrations and types of air contaminants encountered  
VENTILATION: Local mechanical exhaust ventilation recommended  
GLOVES: Impervious (neoprene)  
EYE PROTECTION: Chemical goggles/glasses  
OTHER EQUIPMENT: Safety shower and/or eye wash station

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SECTION IX - SPECIAL PRECAUTIONS

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HANDLING AND STORAGE PRECAUTIONS: Keep container air tight in a dry area away from heat and water when not in use. Practice "good" industrial housekeeping and hygiene.

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SECTION X - ADDITIONAL INFORMATION

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Methyl Ethyl Ketone is in the TSCA inventory. SARA Title III Sect. 313

MEK is 31.8% of this product.

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