

M A T E R I A L   S A F E T Y   D A T A   S H E E T

PRODUCT CODE: 82811      PRODUCT NAME: MPL-4

This form may be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

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IDENTITY (As Used on Label and List): MPL-4

rec'd 2/25/99

SECTION I - PRODUCT IDENTIFICATION

MANUFACTURERS NAME AND ADDRESS:

KAR PRODUCTS  
461 N. Third Avenue  
Des Plaines, IL. 60016

TELEPHONE NUMBERS:

Kush Poison Control (800)752-7869 15  
Emergency: (800)752-7869 15  
Information: (847)296-6111

Date Entered: 08/08/96  
Last Revision: 07/09/98  
MSDS Printed: 07/09/98

SYNONYMS:

CHEMICAL FAMILY: Penetrating Oil  
HAZARD LABEL: Consumer Commodity ORM D  
MOLECULAR FORMULA:  
MOLECULAR WEIGHT: NE or NA

HMS RATINGS: (0-4)      HMS PROTECTIVE EQUIPMENT  
Health: 2  
Flammability: 3  
Reactivity: 0

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY/COMMON NAME)	CAS #	OSHA PEL	ACGIH TLV	OTHER LIMITS	PERCENTAGE
MINERAL SPIRITS	8052-41-3	100ppm	100ppm		65.0 - 94.0
Acetic acid, Ethyl ester (Ethyl acetate)	141-78-6	*400ppm	400ppm		1.0 - 7.0
Propylene Glycol Methyl Ether	107-98-2	100ppm	100ppm		1.0 - 5.0
Propane	74-98-6	1000ppm	1000ppm		1.0 - 24.0
Isobutane (2-Methylpropane)	75-28-5	NE	NE		1.0 - 24.0
BUTANE	106-97-8	800ppm	800ppm		1.0 - 24.0

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: 100.0 °F      SPECIFIC GRAVITY (WATER = 1): 1.0  
MELTING POINT: NE or NA      VAPOR PRESSURE (MM HG): . . . 60-70      at 70.0 °F  
VAPOR DENSITY (AIR=1): . . . . . Heavier  
PHYSICAL STATES: [ ] Gas      EVAPORATION RATE: . . . . . Faster  
                          [ X ] Liquid      (Butyl Acetate=1)  
                          [ ] Solid      SOLUBILITY IN WATER: . . . . . Slightly  
PH: NA      PERCENT VOLATILE: . . . . . 8.3 %      by weight.

APPEARANCE AND ODOR:  
Semi-opaque with characteristic solvent odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH PT: -40.0 °F      METHOD USED: TCC      EXPLOSIVE LIMITS:      LEL: NA      UEL: NA

AUTOIGNITION PT: NE or NA

EXTINGUISHING MEDIA:  
Use water fog, dry chemical or carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES:  
Fire fighters should wear NIOSH approved positive pressure self-contained breathing apparatus. Aerosol cans may rupture when heated.

UNUSUAL FIRE AND EXPLOSION HAZARDS:  
Heated cans may burst.

SECTION V - REACTIVITY DATA

STABILITY:      Unstable [ ]      Stable [ X ]

CONDITIONS TO AVOID - INSTABILITY:

Sources of ignition.  
INCOMPATIBILITY - MATERIALS TO AVOID:  
Strong oxidizers, strong acids and bases.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:  
May form carbon dioxide, carbon monoxide, various hydrocarbons and other products of incomplete combustion.

HAZARDOUS POLYMERIZATION: May occur [ ]      Will not occur [ X ]

CONDITIONS TO AVOID - HAZARDOUS POLYMERIZATION:  
NA

SECTION VI - HEALTH HAZARD DATA

ROUTE(S) OF ENTRY: Inhalation? Yes      Skin? Yes      Eyes? Yes      Ingestion? Yes      Other:

HEALTH HAZARDS (Acute and Chronic):  
May cause dizziness or narcosis in high vapor concentrations. Will cause defatting of the skin. Effects are reversible. Long term exposure (years) to vapor may cause lung, liver, or kidney damage. Ethylene Acetate solvents have been reported to affect the central nervous system.

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CARCINOGENICITY: NTP? IARC Monographs? OSHA Regulated? Presently not on any list.

RECOMMENDED EXPOSURE LIMITS: LD 50/LC 50:

SIGNS AND SYMPTOMS OF EXPOSURE:

Inhalation - difficulty in breathing. Skin - redness. Ingestion - vomiting. Alcohol consumed before exposure may increase adverse effects. Overexposure may cause dizziness and loss of concentration.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

If you have medical problems, check with your physician before using this product.

EMERGENCY AND FIRST AID PROCEDURES:

Give oxygen - do not induce vomiting - gastric lavage - wash eyes and skin with water. Remove to fresh air, contact physician immediately.

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SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Use absorbent sweeping compound to soak up material. Pour into container. Dispose as hazardous waste.

WASTE DISPOSAL METHOD:

Dispose of waste in accordance with applicable Federal, State and local requirements.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Keep away from heat, sparks or open flame. Store at temperatures below 120 Deg. F.

OTHER PRECAUTIONS:

Avoid prolonged breathing of vapors. Always use with adequate ventilation. Keep out of the reach of children. NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain damage and nervous system damage. Intentional misuse by concentrating and inhaling this product may be harmful or fatal.

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SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION (SPECIFY TYPE): Self-contained breathing apparatus if TLV limits are exceeded.

VENTILATION:

Local exhaust.

PROTECTIVE GLOVES: None required if spraying.

EYE PROTECTION: Safety glasses or goggles.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Long sleeves and long pants or coveralls.

WORK/HYGIENIC/MAINTENANCE PRACTICES:

Do not smoke while using. Wash hands after use. Concentrated vapors of this product are heavier than air and will collect in low areas, pits, storage tanks and other confined spaces. Do not enter these areas.

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SECTION IX - ADDITIONAL COMMENTS

SECTION II - \*Subject to the reporting requirements of Sara 313 and 40 CFR 372.

Also contains non-hazardous phosphatide and surfactant.

SECTION III - Boiling Point Range: 100-400 Deg. F.