

Material Safety Data Sheet

Number: **DMN0118**

Product Name: **Methyl Ethyl Ketone (M.E.K.)**

A liquid petroleum distillate

Revised: 8/22/06

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Section 2 - Composition / Information on Hazardous Ingredients

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>Percent (w/w)</u>	<u>Carcinogen</u>
Methyl Ethyl Ketone	78-93-3	100%	No

Section 3 - Hazards Identification

Emergency Overview: Liquid is moderately irritating to the eyes and mildly irritating to the skin. Flammable concentrations of vapors in air are possible, may travel considerable distance and may flash back to the container. Vapors are heavier than air, but the low vapor pressure and evaporation rate make flammable mixtures in the air unlikely. It may be extinguished by CO₂, dry chemical or foam. A clear, colorless, liquid with a lacquer thinner type odor.

Health Hazards: Irritant, Possible Sensitizer

Physical Hazards: Flammable

Primary Routes of Entry: ☒ Through Skin ☒ Inhalation ☒ Ingestion

Potential Health Effects:

Eyes - liquid causes severe irritation, redness, tearing and blurred vision.

Skin - prolonged or repeated contact may cause defatting and drying, which may result in skin irritation or dermatitis.

Swallowing - can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Breathing - excessive breathing of vapors may cause nasal and respiratory irritation, dizziness, headache, and nausea. High concentrations may cause CNS depression.

Section 4 - First Aid Measures

Eye Contact: Immediately flush eyes with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention immediately.

Skin Contact: Wash the exposed skin with soap and water. Remove contaminated clothing and shoes and allow to dry away from sources of ignition. Using a skin lotion should prevent dry skin and irritation. If irritation develops and persists, get medical attention.

Inhalation: If affected, move the affected person to fresh air. If irritation persists get medical attention. If breathing has stopped, give artificial respiration and get medical attention immediately.

Ingestion: Do not induce vomiting. Keep person warm and quiet. Aspiration of material into the lungs due to vomiting can cause chemical pneumonitis which can be fatal. Oral toxicity is low. Get medical attention immediately.

Section 5 - Fire-Fighting Measures

Flash Point: 21° F. / -6° C. (ASTM D-56 closed cup)

Autoignition Temp.: 885°F / 474° C.

Lower Explosive Limit: 1.74% @ 200°F

Upper Explosive Limit: 11.4% @ 200°F

Extinguishing Media: Water, carbon dioxide, dry chemical, alcohol foam.

Special Fire Fighting Procedures: None.

Unusual Fire And Explosion Hazards: Danger! Extremely flammable. Vapors may cause flash fire. Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at locations distant from the material handling point.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Eliminate all sources of ignition. Prevent entry into drains, sewers, streams and other bodies of water. Wipe up with rags or use absorbent material such as oil dry. Rags and absorbent material are very flammable until the solvent has evaporated. Allow them to dry, preferably outdoors, away from sources of ignition.

Section 7 - Handling and Storage

Do not use, pour, spill or store near heat, sparks, heating elements or open flame. Vapors could be ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at a considerable distance from the source.

When pouring or transferring, ground the container being poured into and bond from the product can to the container or tank being poured into with wires and alligator clips.

Empty containers retain product residue. Observe all hazard precautions given in this data sheet.

Section 8 - Exposure Controls / Personal Protection

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>Percent (w/w)</u>	<u>TWA(source)</u>	<u>STEL</u>	<u>Ceiling</u>
Methyl Ethyl Ketone	78-93-3	100%	200 ppm(1,2,3,4)	300 ppm(2,3,4)	-
(1)=OSHA (2)=NIOSH (3)=ACGIH (4)=CANADA TWA=8 hr Time Weighted Average STEL=15 minute TWA Ceiling=Instantaneous					

Ventilation: Preferably use outdoors. At least 10 air changes per hour for good general room ventilation are recommended.

Gloves: If the product will contact hands wear resistant gloves such as neoprene or Nitrile. Do not use disposable latex gloves. Nitrile disposable gloves are good.

Eye Protection: If splashing is possible wear safety glasses with side shields or chemical goggles.

Other Protective Equipment: None.

Section 9 - Physical and Chemical Properties

Boiling Point: 175° F.

Specific Gravity: 0.806

Percent Volatiles: 100%

Solubility In Water: 27% @ 68°F

Appearance and Odor: A clear, colorless, liquid with a lacquer thinner type odor.

Vapor Pressure: 70mm Hg

Vapor Density: 2.5 (Air = 1)

Evaporation Rate: 5.7 (Butyl Alcohol = 1).

pH: Not Applicable

Section 10 - Stability and Reactivity

Incompatibility: Oxidizers.

Hazardous Decomposition Products: CO₂, CO

Section 11 - Toxicological Information

IDLH - 3,000 ppm

LD₅₀ - 3.4 g/kg rat oral

LC₅₀ - 8,000ppm/8H rat

In female rats exposed by inhalation to > 1,000ppm of M.E.K. (5X TWA), minor embryotoxic/fetotoxic effects were observed.

Section 12 - Ecological Information

Do not dispose of in the environment.

Section 13 - Disposal Considerations

Waste Disposal Method: product may be poured on the ground far away from all sources of ignition and allowed to evaporate and dry. Comply with all state, local and federal regulations.

Section 14 - Transport Information

D.O.T. Hazard Class: Gallons and larger :METHYL ETHYL KETONE, 3, UN 1193, P.G. II.
Quarts and smaller: ORM-D

Section 15 - Regulatory Information

The components of this product are on the TSCA inventory of chemical substances.

Section 313 Supplier Notification: This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and CFR 372.

<u>Chemical Name</u>	<u>C.A.S. No.</u>	<u>% (w/w)</u>	<u>Lbs./Gallon</u>
METHYL ETHYL KETONE	78-93-3	100%	6.8

Section 16 - Other Information

NFPA: H:1 F:2 I:0 **HMIS® III:** H:1 F:3 P:0 These ratings estimates are to be used only with a fully implemented training program in the workplace. NFPA® is a mark registered by the NFPA. HMIS® is a mark registered by the NPCA.

Replaces sheet dated 2/13/90. Converted to ANSI format.

The information accumulated herein is believed to be accurate but is not warranted to be. Recipients are advised to confirm in advance that the information is current, applicable, and suitable to their circumstances.