

Material Safety Data Sheet

Number: **DMN0118**

Product Name: **Methyl Ethyl Ketone**

A hydrocarbon solvent.

Revised: 10/13/10

Damon Industries, Inc. Box 2120 Alliance, Ohio 44601 U.S.A.	1-800-362-9850 1-330-821-5310 1-330-821-6355 Fax info@DamonQ.com	INFOTRAC 24 HR. EMERGENCY RESPONSE 1-800-535-5053 (U.S. & Canada) 001-352-323-3500 (International)
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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>
2-Butanone	78-93-3	99 - 100%	No

Section 3 - Hazards Identification

Emergency Overview: DANGER! Extremely flammable liquid and vapor. Heavy vapors may travel a considerable distance and ignite a flash fire. Harmful or fatal if swallowed. Harmful if inhaled or absorbed through skin. Affects central nervous system. Causes irritation to skin, eyes and respiratory tract. It may be extinguished by CO₂, dry chemical or foam. Sensitive to static discharge. A clear, colorless liquid with a strong solvent odor.

Health Hazards: Irritant, Affects CNS

Physical Hazards: Flammable

Primary Routes of Entry: Through Skin Inhalation Ingestion

Potential Health Effects:

Eyes - Vapors are irritating to the eyes. Splashes can produce painful irritation, redness and blurred vision.

Skin - Causes irritation to skin. Symptoms include redness, itching, and pain. May be absorbed through the skin with possible CNS effects. Prolonged skin contact may defat the skin and produce dermatitis.

Swallowing - May produce abdominal pain, nausea. Aspiration into lungs can produce severe lung damage and is a medical emergency. Other symptoms expected to parallel inhalation.

Inhalation - excessive breathing of vapors may cause nasal and respiratory irritation, dizziness, headache, nausea, shortness of breath and vomiting. High concentrations may cause CNS depression and unconsciousness.

Aggravation of Pre-existing Conditions: Persons with pre-existing skin disorders or eye problems or impaired respiratory function may be more susceptible to the effects of the substance.

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: Minor contact, wash the exposed area with soap and water. Greater contact, remove contaminated clothing and shoes and rinse the exposed area thoroughly with water. If irritation develops and persists, get medical attention. Wash contaminated clothing and clean contaminated shoes before wearing again.

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: If the product is swallowed, vomiting may occur spontaneously, but **DO NOT INDUCE VOMITING**. If vomiting occurs, keep head below hips to prevent aspiration into lungs. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5 - Fire-Fighting Measures

Flash Point: 16° F. / -9° C. (ASTM D-56 closed cup) **Autoignition Temp.:** 759°F / 404° C.

Lower Explosive Limit: 1.74% **Upper Explosive Limit:** 11.4%

Extinguishing Media: Dry chemical, alcohol foam or carbon dioxide.

Special Fire Fighting Procedures: None.

Unusual Fire And Explosion Hazards: Danger! Extremely flammable. Heavy vapors can flow long distances and be ignited by pilot lights, sparks, heaters, smoking, electric motors, or static discharge, and flash back. Contact with strong oxidizers may cause fire. Sealed containers may rupture when heated.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Eliminate all ignition sources and use a respirator if the spill is large. Ventilate area of leak or spill. Dike to prevent entry into drains, sewers, streams and other bodies of water. Small spills may be wiped up. Larger spills can be collected into metal containers for disposal or absorbed onto oil dry or vermiculite. Rags and absorbent material are very flammable until the solvent has evaporated. Use caution to prevent static discharges. Large spills must be reported according to CERCLA regulations.

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

Section 8 - Exposure Controls / Personal Protection

Ingredient	C.A.S. No.	Percent (w/w)	TWA(source)	STEL	Ceiling
2-Butanone	78-93-3	60 - 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: At least 10 air changes per hour for good general room ventilation are recommended. If the exposure limits will be exceeded, provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below the limits. Ventilation must be explosion-proof.

Respiratory Protection: If the exposure limits above will be exceeded wear a NIOSH approved respirator with an organic vapor cartridge or SCBA.

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

Eye Protection: If splashing is possible wear safety glasses with side shields or chemical goggles. Maintain eye wash and quick-drench facilities in the work area.

Other Protective Equipment: Wear protective clothing as appropriate for the exposure potential.

Section 9 - Physical and Chemical Properties

Boiling Point: 175° F.

Specific Gravity: 0.81

Percent Volatiles: 100%

Solubility In Water: Soluble

Appearance and Odor: A clear, colorless liquid with a strong solvent odor.

Vapor Pressure: 70mm Hg

Vapor Density: 2.5 (Air = 1)

Evaporation Rate: 2.7 (Ether = 1).

pH: Not Applicable

Odor Threshold: 0.25 ppm

Section 10 - Stability and Reactivity

Incompatibility: Oxidizing materials, caustics, amines, ammonia, strong bases, hydrogen peroxide, nitric acid. Can attack many plastics, resins and rubber.

Hazardous Decomposition Products: CO₂, CO when heated to decomposition.

Section 11 - Toxicological Information

2-Butanone LD₅₀ - 2.7 g/kg rat oral LC₅₀ - 23.5 mg/m³/8Hr rat inhalation IDLH - 5,000 ppm

In female rats exposed by inhalation to > 1000ppm 2-Butanone (5X TLV), minor embryotoxic/fetotoxic effects were observed.

Section 12 - Ecological Information

Do not dispose of in the environment. Not expected to be toxic to aquatic life. LC50/96-hour for fish > 100 mg/l.

Section 13 - Disposal Considerations

Waste Disposal Method: Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Dispose of container and unused contents in accordance with federal, state and local requirements.

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.

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

Section 16 - Other Information

NFPA: H:1 F:3 I:0 **HMIS® III:** H:2 F:3 P:1 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 8/22/06.

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.