

Material Safety Data Sheet

Freeman Celastic Solvent

Date of Preparation: January 3, 2007

Revision:

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: Freeman Celastic Solvent

Chemical Family: Solvent

CAS Number: N/A

Other Designations: N/A

General Use: N/A

Manufacturer: Freeman Manufacturing and Supply Company, 1101 Moore Road, Avon, OH 44011,
Phone (440)934-1902, FAX (440)934-7200, Hours of Operation 8-5, Emergency Phone Number 800-424-9300

HMIS

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☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Flammable. Eye Irritant.

Section 2 - Composition / Information on Ingredients

| Ingredient Name | CAS Number | % wt or % vol |
|---------------------|------------|------------------|
| Methyl Ethyl Ketone | 78-93-3 | 100 |

| Ingredient | OSHA PEL | | ACGIH TLV | | Vapor Pressure |
|---------------------|----------|---------|-----------|---------|-----------------|
| | TWA | STEL | TWA | STEL | |
| Methyl Ethyl Ketone | 200 ppm | 300 ppm | 200 ppm | 300 ppm | 77 mm Hg @ 68°F |

Section 3 - Physical and Chemical Properties

Physical State: Liquid

Appearance and Odor: Clear, colorless, mobile liquid.

Strong characteristics "ketone" odor.

Vapor Pressure: 82.5 mm Hg at 75 °F
172.5 mm Hg at 100 °F

Specific Gravity (H₂O=1, at 4 °C): 0.81

Water Solubility: 26.8% @20°C

Boiling Point: 175 to 177 °F

Freezing/Melting Point: 26°F (-3° C)

Viscosity: 0.5 cps at 68° F

% Volatile: 100

Evaporation Rate (N-Butyl Acetate = 1): 6.0

VOC: 100%, 807.0 g/l, 6.710 lbs/gal

Section 4 - Fire-Fighting Measures

Flash Point: 25 °F (-4 °C)

Autoignition Temperature: 860°F (460°C)

LEL: 1.8 % v/v

UEL: 11.5% v/v

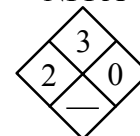
Extinguishing Media: Alcohol type foam, dry chemical.

General Hazard: Flammable liquid, can release vapors that form flammable mixtures at temperatures at or below the flashpoint. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained and promptly returned to a drum reconditioner or properly disposed of.

Hazardous Combustion Products: May form carbon dioxide and carbon monoxide.

Fire-Fighting Instructions: Use water spray to cool fire exposed surfaces and to protect personnel. Shut off "fuel" to fire. If a leak or spill has not ignited completely spray to disperse the vapors. Either allow fire to burn under controlled conditions or extinguish with alcohol type foam and dry chemical. Try to cover liquid spills with foam.

NFPA



Section 5 - Stability and Reactivity

Stability: Freeman Celastic Solvent is stable at room temperature in closed containers under normal storage and handling conditions.

Polymerization: Hazardous polymerization will not occur.

Chemical Incompatibilities: Caustics, amines, ammonia, strong oxidizing agents

Conditions to Avoid: Heat, sparks and flame

Hazardous Decomposition Products: Carbon dioxide and carbon monoxide.

Section 6 - Health Hazard Information

Potential Health Effects

Eye Contact: Severely irritating. If not removed promptly, will injure eye tissue which may result in permanent damage.

Skin Contact: Frequent or prolonged contact may irritate and cause dermatitis. Low order of toxicity.

Inhalation: Vapor concentrations above recommended exposure levels are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, are anesthetic and may have other central nervous system effects. Low order of toxicity.

Ingestion: Low order of toxicity. Small amounts of the liquid aspirated into the respiratory system during ingestion, or from vomiting, may cause bronchiopneumonia or pulmonary edema.

Chronic Effects: There is no evidence that exposure to Methyl Ethyl Ketone (MEK) alone causes progressive or irreversible neurotoxic effects.

Emergency and First Aid Procedures

Eye: Immediately flush eyes with large amounts of water for at least 15 minutes. Get prompt medical attention.

Skin: Immediately flush with large amounts of water; use soap if available. Remove contaminated clothing, including shoes, after flushing has begun.

Inhalation: Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention.

Ingestion: If swallowed, do NOT induce vomiting. Keep at rest. Get prompt medical attention.

Section 7 - Spill, Leak, and Disposal Procedures

Land Spill: Eliminate sources of ignition. Prevent additional discharge of material, if possible to do so without hazard. For small spills implement cleanup procedures; for large spills implement cleanup procedures and, if in public area, keep public away and advise authorities. Also, if this product is subject to CERCLA reporting (see **Regulatory Information**) notify the National Response Center. Prevent liquid from entering sewers, watercourses, or low areas. Contain spilled liquid with sand or earth. Do not use combustible materials such as sawdust. Recover by pumping (use an explosion proof or hand pump) or with a suitable absorbent. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

Water Spill: Eliminate sources of ignition. Warn occupants and shipping in surrounding and downwind areas of fire and explosion hazard and request all to stay clear. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

Disposal: All notification, clean-up and disposal should be carried out in accordance with federal, state, and local regulations.

Ecological Information: No specific ecological data are available for this product.

Regulatory Information:

TSCA (Toxic Substances Control Act) Status: This product is listed on the TSCA Inventory.

CERCLA Hazardous Substance (40 CFR 302.4) listed/unlisted specific per RCRA, Sec. 3001; CWA, Sec. 311 (b)(4); CWA, Sec. 307(a), CAA, Sec. 112: RQ 5000 lbs. Methyl Ethyl Ketone

CERCLA Reportable Quantity (RQ), lb (kg): 5000 Methyl Ethyl Ketone

SARA 311/312 Codes: Immediate, Delayed, Fire

SARA Toxic Chemical (40 CFR 372.65): METHYL ETHYL KETONE 78-93-3 100%

SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed, Threshold Planning Quantity (TPQ)

OSHA Regulations:

Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): Not listed

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OSHA Specifically Regulated Substance (29CFR 1910.) None listed

State Regulations: California Proposition 65 - None

Listed on the following states Right to Know Lists: New Jersey, Pennsylvania, Massachusetts

Section 8 - Exposure Controls / Personal Protection

Exposure Controls: The use of mechanical dilution ventilation is recommended whenever this product is used in a confined space, is heated above ambient temperatures, or is agitated. Use explosion-proof ventilation equipment.

Personal Protection: For open systems where contact is likely, wear long sleeves, chemical resistant gloves, and chemical goggles. Where contact may occur, wear a face shield. Where concentrations in air may exceed the limits and engineering, work practices or other means of exposure reduction are not adequate, NIOSH approved respirators may be necessary to prevent overexposure by inhalation.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section 9 - Special Precautions and Comments

Storage & Handling: Keep containers closed. Handle and open containers with care. Store in a cool, well-ventilated place away from incompatible materials. Do NOT handle or store near an open flame, heat or other sources of ignition. Protect material from direct sunlight. This material is not a static accumulator, but use proper bonding and/or grounding procedures. Do NOT pressurize, cut, heat, or weld containers. Empty product containers may contain product residue. Do NOT reuse empty containers without commercial cleaning or reconditioning.

DOT Transportation Data (49 CFR 172.101):

Shipping Name: METHYL
ETHYL KEONE, 3, UN1193,II

Packaging Authorizations
a) **Exceptions:**
b) **Non-bulk Packaging:**
c) **Bulk Packaging:**

Quantity Limitations
a) **Passenger, Aircraft, or Railcar:**
b) **Cargo Aircraft Only:**

Shipping Symbols:
Hazard Class:

Container/Mode: 55 GAL
DRUM/TRUCK PACKAGE

Vessel Stowage Requirements
a) **Vessel Stowage:**
b) **Other:**

ID No.:
Packing Group:
Label:
Special Provisions (172.102):

Disclaimer: The following supersedes Buyer’s documents. SELLER MAKES NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict of liability arising in connection with the product(s). Buyer’s sole remedy and Seller’s sole liability for any claims shall be Buyer’s purchase price. Data and results are based on controlled lab work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.