



Section 1 Identification

Product identifiers

Product name: MEK Solvent

Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Solvent - For Industrial Use Only

Details of the supplier of the safety data sheet:

Freeman Manufacturing and Supply Company

1101 Moore Road, Avon, OH 44011

Phone (440) 934-1902 FAX (440) 934-7200

24 Hour Emergency Phone Number: (800) 424-9300 CHEMTREC

Section 2 Hazards Identification

GHS Classification in accordance with 29 CFR 1910.1200 (OSHA HCS)

Flammable Liquids, Category 2 Skin Irritation, Category 2 Eye Irritation, Category 2A

GHS Label elements





Signal word

Danger

Hazard statements

Highly flammable liquid and vapor.

Causes skin irritation.

Causes serious eye irritation.

Precautionary statements

Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed when not in use.

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting/equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Wash skin thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

Response

If on skin: Immediately remove contaminated clothing. Wash skin with soap and water. Get medical attention if irritation occurs.

If inhaled: Remove person to fresh air and get medical attention if not feeling well.

If in eyes: Rinse continuously with water for at least 15 minutes. Remove contact lenses,

if present and easy to do. Get medical attention if irritation occurs.



Section 2 Hazards Identification continued

If swallowed, immediately call a poison control center or a physician.

In case of fire, use alcohol resistant foam, dry chemical, carbon dioxide (CO₂) or dry sand to extinguish.

Storage

Store in a well-ventilated place. Keep cool.

Disposal

Dispose of contents and container to an appropriate waste site in accordance with local and national regulations.

Hazards not otherwise classified (HNOC) or not covered by GHS

None known

Section 3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Weight Concentration %
Methyl Ethyl Ketone	78-93-3	100

Section 4 First Aid Measures

Description of first aid measures

If inhaled

Immediately supply fresh air. Keep patient in restful and comfortable position for breathing. If required provide artificial respiration, although this may be dangerous.

Consult doctor if symptoms persist.

In case of skin contact

Remove contaminated clothing and shoes. Wash off with soap and plenty of water.

If skin irritation continues, get medical assistance.

In case of eve contact

Remove contact lenses, if worn. Flush opened eyes thoroughly with water.

If irritation persists, get medical assistance.

If swallowed

Immediately get medical attention. Call a poison center or physician. Rinse out mouth and then drink small amounts of water. Do not induce vomiting as this may be dangerous.

Aspiration hazard, if swallowed can enter lungs and cause damage. If vomiting occurs, the head should be kept low to avoid vomit entering the lungs. Maintain an open airway.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Section 5 Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media: Use alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating and in case of fire.

Mixture in sealed and heated containers may cause explosion hazard.



Section 5 Fire-Fighting Measures

Hazardous Combustion Products

Carbon oxides. Metal oxides. Nitrogen oxides. Can form explosive vapor-air mixtures. Vapors are heavier than air and may spread along floors. Vapors may travel considerable distance to source of ignition and flash back.

Advice for firefighters

Clear fire area of unprotected personnel. Containers that are exposed to intense heat should be cooled with water. Avoid spreading burning liquid with the water used for cooling purposes. Do not enter fire area without protective gear. Wear self-contained breathing apparatus for firefighting if necessary.

Section 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away. Keep away from ignition sources. Wear protective clothing. Keep from contacting skin or eyes. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. If any equipment is necessary, ensure that it is non-sparking and electrically-protected.

Environmental precautions

Do not allow product to reach sewage system or any water source. In case of seepage into the ground inform responsible authorities. Prevent from spreading (e.g. by damming-in or oil barriers). Keep contaminated washing water and dispose of appropriately.

Methods and materials for containment and cleaning up

Ensure adequate ventilation. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste. Do not flush with water or aqueous cleansing agents. Send for recovery or disposal in suitable receptacles according to local, state and federal regulations.

Section 7 Handling and Storage

Precautions for safe handling

Apply proper ventilation, possibly combined with local exhaust Do not eat, smoke or drink during use. For personal protection see Section 8. Keep away from sources of ignition.

Keep material out of reach of children. Use only explosion proof equipment Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Keep away from sources of ignition- no smoking. Protect against electrostatic charges by bonding and grounding product containers before and during material transfers. Store in a cool, well ventilated place. Keep in original, closed packaging. Comply with governmental regulations. Keep container tightly closed. Store out of direct sunlight, between 40 and 90°F.

Section 8 Exposure Controls/Personal Protection

Components with workplace control parameters

Ingredient	OSHA		ACGIH	
	PEL	STEL	TWA	STEL
Methyl Ethyl Ketone	200 ppm	None established	200 ppm	300 ppm



Section 8 Exposure Controls/Personal Protection continued

Appropriate engineering controls

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use local exhaust at filling zones and where leakage and dust formation is probable. Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.

Eye/face protection

Use safety glasses equipped with side shields. If splashes are likely to occur, wear goggles.

Hand/body protection

Protective gloves are required for prolonged or repeated contact.

Wear resistant gloves such as natural rubber, neoprene, or nitrile.

An apron should be worn to avoid skin contact. Consult your safety equipment supplier.

Respiratory protection

In outdoor or open areas use (N IOSH/MSHA approved) mechanical filter respirator to remove solid airborne particles of overspray during spray application. In restricted ventilation areas use (NIOSH/MSHA approved) chemical-mechanical filters designed to remove a combination of particulate and gas and vapor. In confined areas use (NIOSH/MSHA approved) airline type respirators or hoods. Respiratory protection may also be necessary in any later manufacturing operations in which the product may become airborne in the form of vapor or dust.

Safety stations

Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

General Hygienic Practices

Avoid breathing vapor or mist. Avoid contamination of food, beverages, or smoking materials. Wash thoroughly after handling, and before eating, drinking or smoking. Remove contaminated clothing promptly and clean thoroughly before reuse.

Section 9 Physical and Chemical Properties

Appearance Clear Liquid Odor Solvent

Odor Threshold No data available рH No data available **Melting Point** No data available VOC Content 6.71 lb/gallon

Boiling Point 80°C Flash Point -5°C (23°F) No data available **Evaporation Rate** Flammability (solid, gas) No data available **Lower Explosive Limit**

2.00

Vapor Pressure 75.8 mmHg **Vapor Density** No data available

Specific Gravity 0.805

Water Solubility No data available Coefficient: n-octanol/water No data available **Auto-ignition temperature** No data available Viscosity No data available **Explosive Properties** No data available **Oxidizing Properties** No data available



Section 10 Stability and Reactivity

Reactivity No data available

Chemical stabilityStable under recommended storage conditions.

Possibility of hazardous reactions Hazardous polymerization will not occur. **Conditions to avoid** Heat and open flames.

Incompatible materials

Oxidizing agents, peroxides

Hazardous decompositionThermal decomposition can produce carbon monoxide and carbon dioxide.

Section 11 Toxicological Information

Information on toxicological effects

Acute oral toxicity LD50 2,483 mg/kg (Rat)

Acute inhalation toxicityNo data available

Acute dermal toxicity LD50 5,000 mg/kg (Rabbit)

Skin corrosion / irritationIrritating to eyesEye damage / irritationIrritating to skinRespiratory or skin sensitizationNo data availableGerm cell mutagenicityNo data available

Carcinogenicity

IARC No component of this product present at levels greater than or equal to 0.1%

is identified as a carcinogen or potential carcinogen.

ACGIH No component of this product present at levels greater than or equal to 0.1%

is identified as a carcinogen or potential carcinogen.

NTP No component of this product present at levels greater than or equal to 0.1%

is identified as a carcinogen or potential carcinogen.

OSHA No component of this product present at levels greater than or equal to 0.1%

is identified as a carcinogen or potential carcinogen.

Reproductive toxicityNo data available

Specific target organ toxicity

- single exposure No data available

Specific target organ toxicity

- repeated exposure No data available
Aspiration hazard No data available

Section 12 Ecological Information

Ecotoxicity 96 Hr LC50 Pimephales promelas: 3130 - 3320 mg/L

48 Hr EC50 Daphnia magna: >520 mg/L; 48 Hr EC50 Daphnia magna: 5091 mg/L;

48 Hr EC50 Daphnia magna: 4025 - 6440 mg/L [Static]

Persistence and degradabilityNo data availableBioaccumulative potentialNo data availableMobility in soilNo data availableResults of PBT & vPvB assessmentNo data available



Section 13 Disposal Considerations

Waste treatment methods

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Disposal of this product and any by-products must at all times comply with local, state and Federal regulations for hazardous wastes. All entities that store, transport or handle hazardous waste must take the necessary measures to prevent risks of pollution, release into the environment or damage to people and animals.

Contaminated Packaging:

Waste packaging should be recycled. Care should be taken when handling emptied containers that have not been cleaned. Empty containers retain some product residues. Vapor from that residue may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers.

Section 14 Transport Information

DOT: Shipping Name: Methyl Ethyl Ketone

Hazard Class: 3 ID No.: UN1193 Packing Group: II

IATA: Shipping Name: Methyl Ethyl Ketone

Hazard Class: 3 ID No.: UN1193 Packing Group: II

IMDG: Shipping Name: Methyl Ethyl Ketone

Hazard Class: 3 ID No.: UN1193 Packing Group: II

Section 15 Regulatory Information

US Federal Regulations

CERCLA Hazardous Substance (40 CFR 302.4): None SARA 302 Extremely Hazardous Substances: None

SARA 313 Toxic Chemical: None

TSCA Inventory Status: All ingredients listed on TSCA inventory requirements

US State Regulations

California Proposition 65: This product does not contain any chemicals known to the State of California to cause birth defects or other reproductive harm.

For more information, go to www.P65Warnings.ca.gov.

Canadian Regulations

Canadian Domestic Substances List (DSL): All ingredients are listed.

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Section 16 Other Information

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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.