SAFETY DATA SHEET

Methyl Ethyl Ketone (MEK), Technical

Revised: 07/01/2026

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Methyl Ethyl Ketone (MEK), Technical
Synonyms: butan-2-one, Methyl Ethyl Ketone (MEK)
CAS Number: 78-93-3
Grade/Purity: Technical
Product Type: Flammable Solvent (Liquid)
Product Use: Industrial, Manufacturing or Laboratory use
Manufacturer/Supplier: Alliance Chemical, 204 South Edmond St, Taylor, Texas 76574
Information: 512-365-6838 | www.alliancechemical.com
Emergency: CHEMTEL - 800-255-3924 (24 Hours/Day, 7 Days/Week)

2. HAZARDS IDENTIFICATION

Signal Word: Danger
GHS Pictograms:



Hazard Statements:

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

Precautionary Statements:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating and lighting equipment.
P242	Use non-sparking tools.
P243	Take precautionary measures against static discharge.
P280	Wear protective gloves, protective clothing and eye/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P370+P378	In case of fire: Use alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with all applicable regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	% MIN	% MAX	CAS #	EINECS# / ELINCS#	FORMULA	MOLECULAR WEIGHT
Methyl Ethyl Ketone (MEK)	99.5	100	78-93-3	201-159-0	C_4H_8O	72.11 g/mol

4. FIRST-AID MEASURES

Eyes	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.
Skin	Take off immediately all contaminated clothing. Wash skin with plenty of soap and water. Get medical attention if irritation develops or persists.
Inhalation	Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if symptoms persist.
Ingestion	Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Aspiration hazard - get immediate medical attention.

5. FIRE-FIGHTING MEASURES

Suitable Media	Alcohol-resistant foam, CO2, dry chemical powder. Water spray may be used to cool fire-exposed containers.
Unsuitable Media	Do not use a solid water stream — may scatter and spread fire.
Protective Equipment	Wear self-contained breathing apparatus and full protective clothing.
Combustion Products	May include carbon oxides and other toxic fumes. See Section 10.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use PPE as described in Section 8. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental	Prevent leakage or spillage from entering drains, sewers, or waterways.
Containment & Cleanup	Absorb with inert material. Collect in appropriate waste container. Dispose per applicable regulations.

7. HANDLING AND STORAGE

Safe Handling	Use with adequate ventilation. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Keep container closed when not in use.
Safe Storage	Store in a cool, dry, well-ventilated area away from heat, sparks, and open flame. Keep away from: Strong oxidizers, strong acids and bases, amines/ammonia, reducing agents; attacks many plastics and rubber. Keep containers tightly closed. Ground and bond containers when transferring material.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Use adequate ventilation. Provide eyewash stations and quick-drench showers accessible to areas of use.

Occupational Exposure Limits:

AGENCY	EXPOSURE LIMIT
OSHA PEL	200 ppm (590 mg/m3) TWA
ACGIH TLV	200 ppm TWA; 300 ppm STEL
NIOSH REL	200 ppm (590 mg/m3) TWA
IDLH	3000 ppm

Eyes	Wear chemical safety goggles or face shield.
Skin	Wear chemical-resistant gloves and protective clothing.
Inhalation	Use a NIOSH-approved respirator with organic vapor cartridges. For confined spaces or exposures above the OEL, use supplied-air respiratory protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colorless volatile liquid
Odor	Sharp, sweet acetone-like odor
Median Particle Size	Not Applicable

Particle Size Distribution	Not Applicable
Particle Shape	Not Applicable
Surface Area	Not Applicable
Dustiness	Not Applicable
Hygroscopicity	Not Applicable
pH	Not applicable (neutral)
Melting Point	-86 C
Boiling Point	~80 C
Flash Point	-9 C (closed cup)
Vapor Pressure	78 mmHg at 20 C
Specific Gravity	~0.805
Solubility	Soluble in water (~275 g/L at 20 C); miscible with most organic solvents
Molecular Formula	C_4H_8O
Molecular Weight	72.11 g/mol

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions.
Hazardous Reactions	Vapours may form explosive mixtures with air; reacts vigorously with strong oxidizers and strong acids/bases; attacks some plastics/rubber; can accumulate static charge.
Conditions to Avoid	Heat, sparks, open flame, and incompatible materials.
Incompatible Materials	Strong oxidizers, strong acids and bases, amines/ammonia, reducing agents; attacks many plastics and rubber
Decomposition Products	May produce carbon oxides and other toxic fumes when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: See below for route-specific data.

ROUTE	VALUE
LD50 Oral	2737 mg/kg (rat, oral)
LD50 Dermal	6480 mg/kg (rabbit, dermal)
LC50 Inhalation	11700 ppm (rat, 4 h)

IARC	Not listed as carcinogen.
NTP	Not listed as carcinogen.
OSHA	Not listed as carcinogen.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Fish LC50: 3220 mg/L (Pimephales promelas, 96 h); Daphnia EC50: 5091 mg/L (Daphnia magna, 48 h) [PubChem]
Persistence	Readily biodegradable
Bioaccumulation	BCF: ~1 (not bioaccumulative)
Mobility in Soil	High mobility in soil (Log Kow < 1)

13. DISPOSAL CONSIDERATIONS

Dispose of contents/container in accordance with applicable federal, state, and local regulations. Do not dispose of into drains or waterways.

14. TRANSPORT INFORMATION

US DOT	UN1193, Ethyl methyl ketone, 3, PG II
IMDG	UN1193, Ethyl methyl ketone, 3, PG II
IATA/ICAO	UN1193, Ethyl methyl ketone, 3, PG II
Marine Pollutant	No

15. REGULATORY INFORMATION

TSCA listed. SARA 313: MEK was DELISTED from TRI effective 2005 (not a 313 chemical). CERCLA RQ 5000 lb. Prop 65: not listed. State RTK: listed.	
SARA 311/312	See Section 2 for hazard classifications.

16. OTHER INFORMATION

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