

Material Safety Data Sheet

Methyl ethyl ketone

ACC# 14460

Section 1 - Chemical Product and Company Identification

MSDS Name: Methyl ethyl ketone

Catalog Numbers: AC149670200, AC149670250, AC9565367, S80081, BP209RB-115, BP209RB-19, BP209RB-200, BP209RB-50, BP209RS-200, BP209RS-50, BPM209RB-115, BPM209RB-19, BPM209RB-200, BPM209RB-50, BPM209RS-200, BPM209RS-28, BPM209RS-50, DWM2084, H209RB115, H209RB19, H209RB200, M208 1, M208 20, M208 4, M208-1, M208-20, M208-4, M2081, M20820, M2084, M209 1, M209 20, M209 4, M209 500, M209-1, M209-20, M209-200, M209-4, M209-500, M2091, M20920, M209200, M20920LC, M2094, M2094LC, M209500, M209FB115, M209FB19, M209FB200, M209FB50, M209RB115, M209RB19, M209RB200, M209RS115, M209RS200, M209RS50, M209S 4, M209S-4, M209S4, M209SS115, M209SS200, M209SS28, M209SS50

Synonyms: 2-Butanone; Ethyl methyl ketone; MEK; Methyl ethyl ketone.

Company Identification:

Fisher Scientific
1 Reagent Lane
Fair Lawn, NJ 07410

For information, call: 201-796-7100

Emergency Number: 201-796-7100

For CHEMTREC assistance, call: 800-424-9300

For International CHEMTREC assistance, call: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
78-93-3	Methyl ethyl ketone	>99%	201-159-0

Hazard Symbols: XI F

Risk Phrases: 11 36 66 67

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: colorless liquid. Flash Point: -7 deg C. **Danger!** May cause respiratory tract irritation. May cause severe eye and skin irritation with possible burns. May cause fetal effects. May cause central nervous system effects. Extremely flammable liquid and vapor. Vapor may cause flash fire.

Target Organs: Central nervous system, eyes, skin, mucous membranes.

Potential Health Effects

Eye: Causes eye irritation. May result in corneal injury.

Skin: May be absorbed through the skin in harmful amounts. Prolonged and/or repeated contact may cause irritation and/or dermatitis.

Handling: Use only in a well-ventilated area. Ground and bond containers when transferring material. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Avoid contact with heat, sparks and flame. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

Storage: Keep away from sources of ignition. Store in a cool, dry, well-ventilated area away from incompatible substances. Flammables-area.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Methyl ethyl ketone	200 ppm TWA; 300 ppm STEL	200 ppm TWA; 590 mg/m3 TWA 3000 ppm IDLH	200 ppm TWA; 590 mg/m3 TWA

OSHA Vacated PELs: Methyl ethyl ketone: 200 ppm TWA; 590 mg/m3 TWA; 300 ppm STEL; 885 mg/m3 STEL

Personal Protective Equipment

Eyes: Wear chemical goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Appearance: colorless liquid

Odor: sweetish odor - alcohol-like

pH: Not available.

Vapor Pressure: 71.2 mm Hg

Vapor Density: 2.5 (Air=1)

Evaporation Rate: 2.7 (Ether=1)

Viscosity: 0.42 mPas 15 deg C

Boiling Point: 80 deg C @ 760mm Hg

Freezing/Melting Point: -87 deg C

Autoignition Temperature: 404 deg C (759.20 deg F)

Flash Point: -7 deg C (19.40 deg F)

Decomposition Temperature: Not available.

NFPA Rating: (estimated) Health: 1; Flammability: 3; Reactivity: 0

Explosion Limits, Lower: 1.4 vol% @ 200F

Upper: 11.4 vol% @ 200F

Solubility: miscible with oils

Specific Gravity/Density: .8050g/cm3

Other: None information available.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: CAS# 78-93-3: waste number U159; (Ignitable waste, Toxic waste).

Section 14 - Transport Information

	US DOT	IATA	RID/ADR	IMO	Canada TDG
Shipping Name:	METHYL ETHYL KETONE				METHYL ETHYL KETONE
Hazard Class:	3				3
UN Number:	UN1193				UN1193
Packing Group:	II				II
Additional Info:					FLASHPOINT -9C

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 78-93-3 is listed on the TSCA inventory.

Health & Safety Reporting List

CAS# 78-93-3: Effective Date: October 4, 1982; Sunset Date: October 4, 1992

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ)

CAS# 78-93-3: final RQ = 5000 pounds (2270 kg)

Section 302 (TPQ)

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 78-93-3: acute, flammable.

Section 313

This material contains Methyl ethyl ketone (CAS# 78-93-3, 99%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

Clean Air Act: