

**Safety Data Sheet**  
Methyl Ethyl Ketone

**SECTION I - IDENTIFICATION**



Alliance Chemical  
204 South Edmond St  
Taylor, Texas, 76574  
512-365-6838  
CHEMTEL..... (800) 255-3924

**Product Name** Methyl Ethyl Ketone  
**Synonyms** Solvent  
**CAS Number** 78-93-3  
**Date Prepared** 12/19/22  
**Revision Number** 01/19/23  
**Recommended Use** Industrial Use Only

**SECTION II - HAZARDOUS IDENTIFICATION**

**GHS CLASSIFICATION:**

**Classification**

Flammable Liquids	Category 2
Acute Toxicity, Oral	Category 4
Skin Corrosion/Irritation	Category 2
Skin Corrosion/Irritation	Category 3
Serious Eye Damage/Eye Irritation	Category 2A
Acute Toxicity, Inhalation	Category 5
Specific target organ toxicity, single exposure	Category 2

**DANGER!**

**GHS LABEL:**



**Hazard Statements**

H225	Highly flammable liquid and vapor
H302	Harmful if swallowed
H315	Causes skin irritation
H316	Causes mild skin irritation
H319	Causes serious eye irritation
H333	May be harmful if inhaled
H371	May cause damage to organs

# Safety Data Sheet

## Methyl Ethyl Ketone

### 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/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/light.../ equipment, etc.
P242	Use only non-sparking tools.
P243	Take precautionary measures to prevent static discharge.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash... thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302+352	IF ON SKIN: Wash with plenty of water/...
P303+361+353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+312	IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so - continue rinsing.
P308+311	IF exposed or concerned: Call POISON CENTER/doctor/physician
P321	Specific treatment (see ... on this label).
P330	Rinse mouth.
P332+313	If skin irritation occurs: get medical advice/attention.
P337+313	If eye irritation persists get medical advice/attention.
P362+364	Take off immediately all contaminated clothing and wash it before reuse.
P370+378	In case of fire: Use(See Section 5 of SDS) to extinguish.
P403+235	Store in a well ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to: local/regional/national/international regulations.

### **SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS**

The precise composition of this product is proprietary information. In the event of a medical emergency, a complete disclosure will be provided to medical personnel.

Component Name	CAS #	Component%	OSHA PEL	ACGIH TLV
2-Butanone	78-93-3	100%	200 ppm	200 ppm

**Safety Data Sheet**  
**Methyl Ethyl Ketone**

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**SECTION IV - FIRST AID MEASURES**

- Contact with eyes:** Wash immediately and continuously with flowing water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.
- Skin contact:** Wash off skin thoroughly with water. Remove contaminated clothing and wash before re-use.
- Inhalation:** Remove victim to fresh air. Administer oxygen or artificial respiration if breathing is affected or stopped. Seek immediate medical attention.
- Ingestion:** If swallowed. Wash out mouth thoroughly with water and give plenty of water to drink. Give large quantities of water . Never give anything by mouth to an unconscious person.  
If vomiting occurs, keep head below hips to prevent aspiration into lungs.

**SECTION V - FIREFIGHTING MEASURES**

- Suitable Extinguishing Media:** SMALL FIRE: Use dry chemicals, CO2, water spray or alcohol-resistant foam.
- Special Fire Fighting Procedures** Use self-contained breathing apparatus and full bunker gear in fire areas. Evacuate all unprotected personnel from area. Keep containers cool with water fog to minimize swelling taking care not to spread flames with water used for cooling.
- Unusual Fire Fighting Hazards:** Product is flammable and may be ignited by heat, sparks, flames or other sources of ignition (e.g., static electricity, pilot lights or mechanical/electrical equipment). Vapors are heavier than air and may accumulate in low areas. Vapors may travel considerable distance to a source of ignition where they can ignite, flashback or explode. May create vapor/air explosion hazard indoors, outdoors or in sewers. If container is not properly cooled, it can explode in the heat of a fire.

**SECTION VI - ACCIDENTAL RELEASE MEASURES**

- Personal Precautions:** Keep all sources of ignition and hot metal surfaces away from spill or release.  
Any/all persons dealing with the spill should wear appropriate personal protective equipment. Keep others away from spill/leak. Restrict access to area until the spill has been cleaned up.
- Environmental Precautions:** Prevent liquid from entering drains, sewers or waterways.  
Contain spill if it can be done with minimal risk.  
Notify proper authorities.
- Methods for Cleaning Up:** Use proper personal protective equipment. Isolate and secure the area and follow the appropriate emergency guidelines. If local high concentration of airborne mist occurs, dilute spill with plenty of water and ventilate to disperse mist laden air. Sweep up spill and reclaim or

## Safety Data Sheet

### Methyl Ethyl Ketone

place in a covered waste disposal container. Report spill to proper authorities

Using only non-sparking tools and explosion proof equipment, collect spill on absorbent material and put into approved container.

#### SECTION VII - HANDLING AND STORAGE

- Handling and Storage:**
- Obtain special instructions before use. Wear proper personal protective equipment. Use only in well ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks, and open flame.
  - Store in cool, dry, ventilated area away from any heat source. Storage area should be clearly identified and free of obstruction. Keep containers tightly closed and in an upright position when not in use.
  - Bond and ground all equipment when transferring from one vessel to another. The use of explosion-proof equipment is recommended.
  - "Empty" containers retain residue and/or vapor and may be dangerous. Do not cut, weld, braze solder, drill, grind or expose such containers to heat, flames, sparks, or other ignition sources.
  - Keep containers tightly closed in a dry and well-ventilated place.
  - Avoid prolonged breathing of mist or vapor. Wash thoroughly after handling.

#### SECTION VIII - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

##### EXPOSURE LIMITS:

Component Name	CAS #	OSHA PEL	ACGIH TLV
2-Butanone	78-93-3	200 ppm	200 ppm

**Engineering Controls:** Adequate local or mechanical to reduce vapor or mist to below the PEL or TLV.

**Monitoring:** Follow accepted work practices for handling a flammable material. Do not eat, drink or smoke in areas where this chemical is used or stored. Wash hands prior to eating, drinking or using the restroom. Have eye wash stations and safety showers readily available.

##### Personal Protective Equipment (PPE)

**Eye Protection:** Goggles or approved OSHA device with side shields; do not wear contact lenses when handling this product.

**Skin Protection:** Wear safety glasses with un-perforated side shields. Impervious apron and work boots recommend where splashing may occur.

**Respiratory Protection:** Use the proper respirator in areas where the chemical exposure is unknown or above the OSHA PEL or ACGIH TLV.

**Safety Data Sheet**  
**Methyl Ethyl Ketone**

**SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Clear Liquid
<b>Odor</b>	Strong Odor
<b>pH@25°C</b>	N/A
<b>Melting/Freezing Point</b>	N/A
<b>Flash Point</b>	23°F, TCC
<b>Specific Gravity</b>	0.81
<b>Solubility</b>	Appreciable
<b>Auto-Ignition Temperature</b>	-
<b>Decomposition Temperature</b>	-
<b>VOC Content</b>	100% (6.75% by wt.)
<b>Odor Threshold</b>	-
<b>Boiling Range</b>	175°F
<b>Evaporation Point</b>	3.8 (Butyl Acetate=1)
<b>Flammable Limits - Upper</b>	11.4%
<b>Flammable Limits - Lower</b>	1.4%
<b>Vapor Pressure</b>	71 mmHg @ 68°F
<b>Vapor Density (Air=1)</b>	2.5 (Air=1)
<b>Viscosity</b>	-

**SECTION X - STABILITY AND REACTIVITY**

**Stability:** Stable

**Conditions to Avoid:** Sparks, fire, and extreme temperatures.

**Hazardous Decomposition/Byproducts:** Thermal decomposition may yield oxides of carbon.

**Hazardous Polymerization:** Will not occur.

**Polymerization Conditions to Avoid:** None known.

**Incompatibilities:** Strong oxidizing agents

**Safety Data Sheet**  
**Methyl Ethyl Ketone**

**SECTION XI - TOXICOLOGICAL INFORMATION**

**Likely Route of Exposure:** Routes of entry: inhalation, skin & eyes, ingestion, skin absorption

**Inhalation:** May cause respiratory tract irritation. Inhalation of vapors may cause drowsiness and dizziness.

**Eye Contact:** Causes eye irritation including stinging, watering and redness which may result in corneal injury.  
High vapor concentrations are irritating to the eyes.

**Skin Contact:** Contact may cause mild skin irritation including redness, burning and drying/cracking of the skin.  
Can be painful if skin is confined in gloves, clothing, etc.

**Ingestion:** Aspiration hazard. Can enter the lungs during swallowing or vomiting and cause chemical pneumonia and edema.  
May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

**Acute Toxicity Value:** See Health Hazards below.

**Chronic (Long Term) Effects:** See Health Hazards above.

**Toxicity:**

Component Name	LD50	LC50
2-Butanone	Oral - Rat - 5840 mg/kg; Oral - Rabbit - 4763 mg/kg; Skin -	Inhalation - Species: Mouse 40 mg/l; Inhalation - Rat - 8H/23.5

**Reproductive Effects** Not Applicable

**Teratogenicity** Not Applicable

**Mutagenicity** Not Applicable

**Embryotoxicity** Not Applicable

**Sensitization to Product** Not Applicable

**Synergistic Products** Not Applicable

**Carcinogenicity** Not Listed as a Carcinogen

**SECTION XII - ECOLOGICAL INFORMATION**

**Ecotoxicity:** Information not available.

**Safety Data Sheet**  
Methyl Ethyl Ketone

**Mobility:** Information not available.

**Degradability:** No data available.

**BioAccumulation:** No data available.

**SECTION XIII - WASTE DISPOSAL CONSIDERATIONS**

Follow Federal, state, and local regulations.

**SECTION XIV - TRANSPORT INFORMATION**

**DOT SHIPPING INFORMATION**

**Proper Shipping Name:** Methyl Ethyl Ketone

**Contains:**

**Hazard Class and Label:** 3

**Identification Number:** UN 1193

**Packaging Group:** II

**Other Shipping Info:**

**SECTION XV - REGULATORY INFORMATION**

**TSCA STATUS:**..... The components of this product are listed on the TSCA Inventory

**SARA TITLE III SECTION 302/304 EXTREMELY HAZARDOUS SUBSTANCE:**

No chemicals in this material are subject to the reporting requirements.

**SARA TITLE III SECTION 311/312 HAZARD CATEGORIZATION:**

Acute	Chronic	Fire	Pressure	Reactive
X	X	X		

**SARA TITLE III SECTION 313 SUPPLIER INFORMATION:**

Component Name	CAS #	% by wt.
2-Butanone	78-93-3	100%

**CERCLA SECTION 102(a) HAZARDOUS SUBSTANCE:**

**Safety Data Sheet**  
**Methyl Ethyl Ketone**

Component Name	CAS #	% by wt.	RQ (lbs.)
2-Butanone	78-93-3	100%	5,000

**CALIFORNIA PROPOSITION 65:**

No chemicals in this material are subject to the reporting requirements.

**SECTION XVI - OTHER INFORMATION**

**HMIS Health:** ..... 1

**HMIS Flammability:** ..... 3

**HMIS Reactivity:** ..... 0

**Additional:**

**Specification Information**

**Department issuing data sheet:** Compliance Department

**Email address:** Alliance@alliancechemical.com

**Training necessary:** Training is required per the Occupational Safety and Health Administration (OSHA) Hazard Communication 29 CFR 1910.1200.

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