



MAHBAD COMPANY

Material Safety Data Sheet

Methyl Ethyl Ketone

1 : Identification of the substance/preparation and of the company/undertaking

Product details

Trade name: Methyl Ethyl Ketone

Manufacturer/Supplier/Distributor information :

Mahbad Mehr Tejarat Co.

Tel: +982122889808;

Info: info@mahbadtco.com

Further information obtainable from: Product safety department.

Information in case of Emergency Product safety department.

2: Composition/information on ingredients

Chemical characterization:**CAS No. Description**

78-93-3 butanone

Identification number(s)

EINECS Number: 201-159-0

Index number: 606-002-00-3

3: Hazards identification

Hazard description:

Xi Irritant

F Highly flammable

Information concerning particular hazards for human and environment:

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

R 11 Highly flammable. R 36 Irritating

to eyes.

R 66 Repeated exposure may cause skin dryness or cracking. R 67 Vapours may cause drowsiness and dizziness.

4: First aid measures



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After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Generally the product does not irritate the skin.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: If symptoms persist consult doctor.

5: Fire-fighting measures

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: Water with full jet

Protective equipment: No special measures required

6: Accidental release measures

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.

Measures for environmental protection: Do not allow to enter sewers/ surface or ground water.

Measures for cleaning/collecting:

Dilute with plenty of water.

Ensure adequate ventilation.

7: Handling and storage

Handling:

Information for safe handling: No special requirement

Information about fire - and explosion protection:

Keep ignition sources away. Do not smoke.

Protect against electrostatic charges.

Storage:

Requirements to be met by storerooms and receptacles: Store in a cool location.

Information about storage in one common storage facility: Not required.

Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

8: Exposure controls/personal protection



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Additional information about design of technical facilities: No further data; see item 7

Ingredients with limit values that require monitoring at the workplace:	
78-93-3 butanone	
PEL (USA)	590mg/m ³ , 200ppm
REL (USA)	Short-term value: 885 mg/m ³ , 300 ppm Long-term value: 590 mg/m ³ , 200 ppm
TLV (USA)	Short-term value: 885 mg/m ³ , 300ppm Long-term value: 590 mg/m ³ , 200 ppm
IOELV (EU)	Short-term value: 900 mg/m ³ , 300ppm Long-term value: 600 mg/m ³ , 200 ppm
WEL (Great Britain)	Short-term value: 899 mg/m ³ , 300 ppm Long-term value: 600 mg/m ³ , 200 ppm Sk

Additional information: The lists valid during the making were used as basis.

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work. Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Respiratory protection: Not required.

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:



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Tightly sealed goggles

9: Physical and chemical properties

General Information	
Form: Fluid	
Colour: Colourless	
Odour: Pleasant	
Change in condition	
Melting point/Melting range: -86.3°C	
Boiling point/Boiling range: 79-80.5°C	
Flash point:	-4°C
Ignition temperature:	514°C
Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible	
Explosion limits:	
Lower: 1.8 Vol %	
Upper: 11.5 Vol %	
Vapour pressure at 20°C: 105 hPa	
Density at 20°C: 0.804-0.807 g/cm ³	
Solubility in / Miscibility with water at 20°C: 290 g/l	
Viscosity:	
Dynamic at 15°C: 0.23 mPas	

10 :Stability and reactivity

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Dangerous reactions No dangerous reactions known

Dangerous decomposition products: No dangerous decomposition products known.



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11: Toxicological information

Acute toxicity:

LD/LC50 values relevant for classification:		
Oral	LD50	3300 mg/kg (rat)
Dermal	LD50	5000 mg/kg (rabbit)

Primary irritant effect:

on the skin: No irritant effect.

on the eye: Irritating effect.

Sensitization: No sensitizing effects known.

12 :Ecological information

General notes:

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 :Disposal considerations

Product:

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations

14 :Transport information

Land transport ADR/RID (cross-border)



ADR/RID class: 3 Flammable liquids.

Danger code (Kemler): 33

UN-Number: 1193

Packaging group: II



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Hazard label: 3

Description of goods: 1193 ETHYL METHYL KETONE (METHYL ETHYL KETONE)

Maritime transport IMDG:



IMDG Class:3

UN Number: 1193

Label :3

Packaging group: II

EMS Number: F-E,S-D

Marine pollutant: No

Proper shipping name: ETHYL METHYL KETONE (METHYL ETHYL KETONE)

Air transport ICAO-TI and IATA-DGR:



ICAO/IATA Class: 3

UN/ID Number: 1193

Label:3

Packaging group: II

Proper shipping name: ETHYL METHYL KETONE (METHYL ETHYL KETONE)

15 :Regulatory information

Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Code letter and hazard designation of product:



Xi Irritant

F Highly flammable



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Risk phrases:

- 11 Highly flammable.
- 36 Irritating to eyes.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

Safety phrases:

- 2 Keep out of the reach of children.
- 9 Keep container in a well-ventilated place.
- 16 Keep away from sources of ignition - No smoking.

16 :Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing MSDS: Product safety department