



NEAR INTERNATIONAL TRADE CO.,LIMITED
ADD:FLAT 1506,15/F,LUCKY CENTER,NO.165-
171 WAN CHAI ROAD,WAN CHAI,HONG KONG
WEB:https://nearchemical.net/

METHYL ETHYL KETONE MSDS

Methyl Ethyl Ketone

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME	Methyl Ethyl Ketone
SYNONYMS, TRADE NAMES	MEK, , Ethyl Methyl Ketone, 2-Butanone,
CAS - No.	78-93-3
Chemical Formula	C4H8O
Mol. Wt.	72.11

2 HAZARDS IDENTIFICATION

Highly flammable. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness. Irritating to eyes.

CLASSIFICATION Xi;R36. F;R11. R66, R67.

3 COMPOSITION/INFORMATION ON INGREDIENTS

EU INDEX NO.	606-002-00-3
EC (EINECS) NO.	201-159-0

4 FIRST-AID MEASURES

INHALATION

Move into fresh air and keep at rest. Get medical attention if any discomfort continues.

INGESTION

Provide rest, warmth and fresh air. Immediately rinse mouth and drink plenty of water (200-300 ml). Get medical attention.

SKIN CONTACT

Remove contaminated clothing immediately and wash skin with soap and water.

EYE CONTACT



Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes

wide apart. Get medical

attention immediately. Continue to rinse.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

SPECIFIC HAZARDS

Oxides of: Carbon.

PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES

Small Spill:

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

Large Spill:

Flammable liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk.

Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined.

7 HANDLING AND STORAGE

Precautions:

Keep locked up. Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away

from incompatibles such as oxidizing agents, metals, acids, alkalis.

Storage:

Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	LT - ppm	LT - mg/m ³	ST - ppm	ST - mg/m ³
Methyl Ethyl Ketone	WEL	200 ppm	600 mg/m ³	300 ppm	866 mg/m ³

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

Well-ventilated area.

RESPIRATORY EQUIPMENT

If ventilation is insufficient, suitable respiratory protection must be provided.

HAND PROTECTION

Butyl rubber gloves are recommended.

EYE PROTECTION

Wear approved safety goggles.

OTHER PROTECTION

Wear rubber apron. Wear rubber footwear.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance:

Liquid.

Odor:

Acetone-like Pleasant. Pungent. Sweetish. (Strong.)

Taste:

Not available.

Molecular Weight:

72.12g/mole



Color:	Clear Colorless.
pH (1% soln/water):	Not available.
Boiling Point:	79.6 (175.3 ° F)
Melting Point:	-86 ° C (-122.8 ° F)
Critical Temperature:	262.5 ° C (504.5 ° F)
Specific Gravity:	0.805 (Water = 1)
Vapor Pressure:	10.3 kPa (@ 20 ° C)
Vapor Density:	2.41 (Air = 1)
Volatility:	Not available.
Odor Threshold:	0.25 ppm
Water/Oil Dist. Coeff.:	The product is more soluble in oil; log(oil/water) = 0.3
Ionicity (in Water):	Not available.
Dispersion Properties:	See solubility in water, diethyl ether, acetone.
Solubility:	Soluble in cold water, diethyl ether, acetone.

10 STABILITY AND REACTIVITY DATA

Stability:	The product is stable.
Instability Temperature:	Not available.
Conditions of Instability:	Heat, ignition sources, mechanical shock, incompatible materials.
Incompatibility with various substances:	Reactive with oxidizing agents, metals, acids, alkalis.
Corrosivity:	Non-corrosive in presence of glass.
Special Remarks on Reactivity:	Incompatible with chloroform, copper, hydrogen peroxide, nitric acid, potassium t-butoxide, 2-propanol, chlorosulfonic acid, strong oxidizers, amines, ammonia, inorganic acids, isocyanates, caustics, pyridines.



Vigorous reaction with chloroform +alkali.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

11 TOXICOLOGICAL INFORMATION

INHALATION

Vapours may irritate throat and respiratory system and cause headache, dizziness and dullness.

INGESTION

May cause stomach pain or vomiting. May cause nausea, headache, dizziness and intoxication.

SKIN CONTACT

Irritating to skin. Repeated exposure may cause skin dryness or cracking.

EYE CONTACT

Irritating to eyes.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

The product is not expected to be hazardous to the environment.

MOBILITY

The product is soluble in water.

DEGRADABILITY

The product is expected to be biodegradable.

13 DISPOSAL CONSIDERATIONS

GENERAL INFORMATION

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local

Waste Disposal

Authority. Do not puncture or incinerate even when empty. Rags and the like, moistened with flammable

liquids, must be

discarded into designated fireproof bucket.

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION



UK ROAD CLASS	3		
PROPER SHIPPING NAME	ETHYL METHYL KETONE (METHYL ETHYL KETONE)		
UN NO. ROAD	1193	UK ROAD PACK GR.	II
ADR CLASS NO.	3	ADR CLASS	Class 3: Flammable liquids.
ADR PACK GROUP	II	HAZARD No. (ADR)	33
ADR LABEL NO.	3	HAZCHEM CODE	2YE
CEFIC TEC(R) NO.	30GF1-I+II	RID CLASS NO.	3
RID PACK GROUP	II	UN NO. SEA	1193
IMDG CLASS	3	IMDG PACK GR.	II
EMS	F-E, S-D	MFAG	See Guide
MARINE POLLUTANT	No.	UN NO. AIR	1193
AIR CLASS	3	AIR PACK GR.	II

15 REGULATORY INFORMATION

LABELLING



Highly Flammable



Irritant



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RISK PHRASES

R11	Highly flammable.
R36	Irritating to eyes.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

SAFETY PHRASES

S9	Keep container in a well-ventilated place.
S16	Keep away from sources of ignition - No smoking.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations.

APPROVED CODE OF PRACTICE

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations

Dangerous for Supply. DSEAR

GUIDANCE NOTES

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).