



Safety Data Sheet

Methyl Ethyl Ketone

Version 1.02

Revision Date 02.12.2021

SECTION 1. Identification of the substance/mixture and of the company/undertaking

Product identifier

Trade name	Methyl Ethyl Ketone
Synonyms	2-butanone, methyl acetone, MEK
Product code	2120
CAS-No.	78-93-3
Relevant identified uses of the substance or mixture and uses advised against	
Use	Solvent. Raw material for printing inks and printing ink additives. Paint related material. Industrial use.
Manufacturer or supplier's details	
Company Address	Sasol Chemicals, a division of Sasol South Africa Ltd Sasol Place, 50 Katherine Street Sandton 2090 South Africa
Telephone	+27103445000
E-mail address	sasolchem.info.sa@sasol.com
Emergency telephone number	+44 (0)1235 239 670 (Europe, Israel, Africa, Americas) +44(0)1235 239 671 (Middle East, Arabic African countries) +65 3158 1074 (Asia Pacific) +86 400 120 6011 (China) +27 (0)17 610 4444 (South Africa) 0800 112 890 RSA-Local only +61 (2) 8014 4558 (Australia)

SECTION 2. Hazards identification

Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Classification	Flammable liquids	Category 2
	Eye irritation	Category 2
	Specific target organ toxicity - single exposure (Central nervous system)	Category 3

Label elements



REGULATION (EC) No 1272/2008

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Hazard pictograms	:	 
Signal word	:	Danger
Hazard statements	:	H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.
Supplemental Hazard Statements	:	EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements

Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P233 Keep container tightly closed.
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
 P264 Wash skin thoroughly after handling.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage

P403 + P233 + P235 Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Disposal

P501 Dispose of contents/ container to an approved incineration plant.

Other hazards

None known.

SECTION 3. Composition/information on ingredients

Substance

Butanone; Methyl Ethyl Ketone

Contents: >= 99.75 %W/W

CAS-No. 78-93-3

Index-No. 606-002-00-3

EC-No. 201-159-0

Hazard statements H225 H319 H336

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SECTION 4. First aid measures

Description of necessary first-aid measures

Inhalation	Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before re-use. If skin irritation persists, call a physician.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Ingestion	If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed

Refer to SECTION 11

SECTION 5. Firefighting measures

Suitable extinguishing media	Water spray. Alcohol-resistant foam. Dry chemical. Carbon dioxide.
Unsuitable extinguishing media	No information available.
Special hazards arising from the substance or mixture	Vapours may form explosive mixtures with air. Flash back possible over considerable distance.
Special protective equipment for firefighters	Wear self-contained breathing apparatus and protective suit.

SECTION 6. Accidental release measures

Personal precautions	Keep people away from and upwind of spill/leak. Remove all sources of ignition. Use non-sparking tools. Do not breathe vapours or spray mist. Material can create slippery conditions.
Environmental precautions	Should not be released into the environment. Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Soak up with inert absorbent material and dispose of as hazardous waste.
Reference to other sections	Refer to section 8 and 13

SECTION 7. Handling and storage

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Safe handling advice Provide sufficient air exchange and/or exhaust in work rooms. Wear personal protective equipment. Ensure all equipment is electrically grounded before beginning transfer operations. Take precautionary measures against static discharges.

Advice on protection against fire and explosion Keep away from heat and sources of ignition. Use explosion-proof equipment.

Requirements for storage areas and containers Keep containers tightly closed in a dry, cool and well-ventilated place.

Advice on common storage No data available.

SECTION 8. Exposure controls/personal protection

Components with workplace control parameters

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

Components	Type	Control parameters	Update	Basis
METHYL ETHYL KETONE (MEK)	TWA	590 mg/m ³	1995	South Africa RELs
	TWA	200 ppm	1995	South Africa RELs
BUTAN-2-ONE	STEL	885 mg/m ³	1995	South Africa RELs
	STEL	300 ppm	1995	South Africa RELs

Exposure controls

Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection Gloves suitable for permanent contact:
Material: butyl-rubber
Break through time: 4 h
Material thickness: 0.5 mm

Eye protection Safety glasses with side-shields.

Skin and body protection Protective suit. Safety shoes.

Hygiene measures Wash hands before breaks and immediately after handling the product.

SECTION 9. Physical and chemical properties

Information on basic physical and chemical properties

Form Liquid

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State of matter	Liquid; at 20 °C; 1,013 hPa
Colour	Colourless
Odour	Characteristic
Odour Threshold	No data available.
pH	Not applicable.
Melting point/range	-86.0 °C
Boiling point/boiling range	80 °C; ASTM D86
Flash point	-7.5 °C; ASTM D 93 - 85; closed cup;
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Auto-ignition temperature	No data available.
Lower explosion limit	1.5 %(V)
Upper explosion limit	11.5 %(V)
Vapour pressure	127 hPa; 25 °C
Relative vapour density	1.15(Air = 1.0)
Density	0.805 g/cm ³ ; 20 °C; ASTM D4052
Water solubility	Soluble
Viscosity, kinematic	0.42 mm ² /s; 20 °C; ASTM D 445

SECTION 10. Stability and reactivity

Reactivity	Stable under normal conditions.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.
Conditions to avoid	Heat, flames and sparks.
Materials to avoid	Strong oxidizing agents Incompatible with acids. Halogenated compounds
Hazardous decomposition products	Carbon oxides

SECTION 11. Toxicological information

Acute oral toxicity	LD50 Rat: female 2,328 mg/kg;
Acute dermal toxicity	LD50 Rabbit: male; > 8,000 mg/kg;
Skin irritation	No data available.
Eye irritation	No data available.
Sensitisation	No data available.
Repeated dose toxicity	inhalation (vapour) Rat; male and female; NOAEL Early embryonic development 5,041 ppm(m)
Carcinogenicity	Not classifiable as a human carcinogen.
Mutagenicity	Butanone; Methyl Ethyl Ketone:

SECTION 12. Ecological information

Toxicity to daphnia and other aquatic invertebrates	No data available.
Toxicity to algae	No data available.
Toxicity to fish	No data available.
Toxicity for terrestrial flora	No data available.

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Biodegradability No data available.
Bioaccumulation No data available.
Bioaccumulative potential No data available.

Biochemical Oxygen Demand (BOD) No data available.
Chemical Oxygen Demand (COD) No data available.

SECTION 13. Disposal considerations

Product Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.
Packaging Dispose of spent product packaging responsibly and lawfully with due consideration for health, safety and the environment.

SECTION 14. Transport information

DG Pictogram



ADR
UN number: 1193
Class: 3
Packaging group: II; F1;
Proper shipping name: METHYL ETHYL KETONE
RID
UN number: 1193
Class: 3
Packaging group: II; F1
Proper shipping name: METHYL ETHYL KETONE
ADNR
UN number: 1193
Class: 3
Packaging group: II; F1
Proper shipping name: METHYL ETHYL KETONE
IMDG
UN number: 1193
Class: 3
EmS: F-E, S-D
Packaging group: II
Proper shipping name: METHYL ETHYL KETONE
Marine pollutant Not a Marine Pollutant
ICAO/IATA



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UN number : 1193
Class: 3
Packaging group: II
Proper shipping name: METHYL ETHYL KETONE

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Methyl ethyl ketone
Ship Type: 3
Pollution Category: Z

SECTION 15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

USA TSCA Inventory	All chemical constituents are listed in: USA TSCA Inventory (See chapter 3)
Canadian Domestic Substances List (DSL)	All chemical constituents are listed in: Canadian Domestic Substances List (DSL) (See chapter 3)
Australian Inv. of Chem. Substances (AICS)	All chemical constituents are listed in: Australian Inv. of Chem. Substances (AICS) (See chapter 3)
New Zealand Inventory of Chemicals (NZIoC)	All chemical constituents are listed in: New Zealand Inventory of Chemicals (NZIoC) (See chapter 3)
Jap. Inv. of Exist. & New Chemicals (ENCS)	All chemical constituents are listed in: Jap. Inv. of Exist. & New Chemicals (ENCS) (See chapter 3)
Japan. Industrial Safety & Health Law (ISHL)	All chemical constituents are listed in: Japan. Industrial Safety & Health Law (ISHL) (See chapter 3)
Korea. Existing Chemicals Inventory (KECI)	All chemical constituents are listed in: Korea. Existing Chemicals Inventory (KECI) (See chapter 3)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	All chemical constituents are listed in: Philippines Inventory of Chemicals and Chemical Substances (PICCS) (See chapter 3)
China Inv. Existing Chemical Substances (IECSC)	All chemical constituents are listed in: China Inv. Existing Chemical Substances (IECSC) (See chapter 3)

SECTION 16. Other information

Full text of H-Statements

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.



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All reasonable efforts were exercised to compile this SDS in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). The SDS only provides information regarding the health, safety and environmental hazards at the date of issue, to facilitate the safe receipt, use and handling of this product in the workplace and does not replace any product information or product specifications. Since Sasol and its subsidiaries cannot anticipate or control all conditions under which this product may be handled, used and received in the workplace, it remains the obligation of each user, receiver or handler to, prior to usage, review this SDS in the context within which this product will be received, handled or used in the workplace. The user, handler or receiver must ensure that the necessary mitigating measures are in place with respect to health and safety. This does not substitute the need or requirement for any relevant risk assessments to be conducted. It further remains the responsibility of the receiver, handler or user to communicate such information to all relevant parties that may be involved in the receipt, use or handling of this product.

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