



SAFETY DATA SHEET

SECTION 1 IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product Identifier METHYL ETHYL KETONE

Other Names Ethyl Methyl Ketone, MEK, 2-butanone

Manufacturer's Product Code 16256

Recommended Use Solvent

Details of Supplier/Manufacturer

Company:	Recochem Inc. ABN: 69 010 485 999
Address:	1809 Lytton Road, Lytton, Queensland 4178
Phone:	(07) 3308 5200 Fax: (07) 3308 5201
Website:	www.recochem.com.au

Emergency Telephone Numbers

Business Hours:	(07) 3308 5200	
After Hours:	1300 131 001	
Poisons Information:	Australia: 13 11 26	New Zealand: 0800 764 766

SECTION 2 HAZARDS IDENTIFICATION

Hazardous chemical	according to classification by Safe Work Australia	
Dangerous goods	according to the Australian Code for the Transport of Dangerous Goods by Road and Rail	
Signal Word	DANGER	

Signal Word DANGER		
GHS Classification	Pictogram	Hazard statement
Flammable Liquids, Category 2	FLAME	H225 Highly flammable liquid and vapour
Serious Eye Damage/Irritation, Category 2A		H319 Causes serious eye irritation
Specific Target Organ Toxicity		H335 May cause respiratory irritation
(Single exposure), Category 3	EXCLAMATION MARK	H336 May cause drowsiness or dizziness
N/A	N/A	AUH066 Repeated exposure may cause skin dryness or cracking

Precautionary statements:

GENERAL	
P101	If medical advice is needed, have product container or label at hand
P102	Keep out of reach of children
P103	Read label before use
PREVENTATIVE	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P233	Keep container tightly closed
P240	Ground and bond container and receiving equipment
P241	Use explosion-proof electrical/ventilation/lighting equipment
P242	Use non-sparking tools
P243	Take action to prevent static discharges
P261	Avoid breathing mist/vapours/spray
P264	Wash thoroughly after handling
P271	Use only outdoors or in a well-ventilated area
P280	Wear protective gloves/protective clothes/eye protection/face protection
RESPONSE	
P304 + P340	IF INHALED: Remove victim to fresh air and keep comfortable for breathing
P305 + P351 +	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
P338	lenses, if present and easy to do. Continue rinsing
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P337 + P313	If eye irritation persists: Get medical advice/attention
P370 + P378	In case of fire: Use foam/water spray/fog for extinction
STORAGE	
P403 + P233	Store in a well-ventilated place. Keep container tightly closed
P403 + P235	Store in a well-ventilated place. Keep cool
P405	Store locked up
DISPOSAL	
P501	Dispose of contents/container in accordance with local regulations

SECTION 3 COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredients Names and Proportions

U	Chemical Entity	CAS Number	Proportion (%)
	Methyl Ethyl Ketone	78-93-3	> 99

SECTION 4 FIRST AID MEASURES

Description of necessary first aid measures

	onption of necessary mot dia measures		
Inhalation: occur, transport to nearest medical facility for add contaminated clothing. If skin contact occurs, remove contaminated cloth		Remove victim from exposure if safe to do so. If rapid recovery does not occur, transport to nearest medical facility for additional treatment. Remove contaminated clothing.	
		If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water and follow by washing with soap if available. If irritation occurs seek medical advice.	
	Eye Contact:	If in eyes, hold eyes open, flood with water for at least 15 minutes. Seek immediate medical assistance.	

	If swallowed, do NOT induce vomiting. Transport to nearest medical facility
Ingestion:	for additional treatment. If vomiting occurs spontaneously, keep head below
	hips to prevent aspiration.

Symptoms caused by exposure

Inhalation: Breathing of high vapour concentrations may cause central nervous system depression resulting in headaches, dizziness, nausea, loss of coordination impaired judgement; continued inhalation may result in unconsciousness and/or death. Skin: May include mild redness and dryness. Eye: May include burning sensation, redness, swelling and/or blurred vision. Ingestion: May include nausea, vomiting and central nervous system depression (as inhalation).	
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Medical attention and special treatment

Treat symptomatically.

SECTION 5 FIRE FIGHTING MEASURES

Suitable extinguishing equipment

Alcohol stable foam, water spray or fog. Dry chemical powder, carbon dioxide may be used for small fires only. Do not use water in a jet.

Specific hazards arising from the chemical

Highly flammable liquid. Carbon monoxide and/or carbon dioxide may be evolved. May form flammable vapour mixture with air. Avoid all ignition sources. Flameproof equipment necessary in area where chemical is being used. Nearby equipment must be earthed. Vapours may travel considerable distances to source of ignition and flashback. Vapours may accumulate in low or confined areas

Special protective equipment and precautions for fire fighters

Wear full protective clothing and self-contained breathing apparatus. Hazchem code •2YE.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid contact with spilled or released material. Shut off leaks, if possible without personal risks. Isolate hazard area and deny entry to unnecessary or unprotected personnel. Remove all sources of ignition in the surrounding area. Take precautionary measure against static discharge. Ensure electrical continuity by bonding and earthing all equipment. Spills can be converted to non-flammable mixtures by dilution with water.

Environmental precautions

Use appropriate containment to avoid environmental contamination. Prevent from spreading and entering waterway using sand, earth or other appropriate barriers. Attempt to disperse the vapour or to direct its flow to a safe location for example by using fog sprays. Ventilate contaminated area thoroughly.

Methods and materials for containment and cleaning up

For small spills (< 1 drum), transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely.

For larger spills (> 1 drum), transfer by means such as a vacuum truck to a salvage tank for recovery or disposal. Do not flush residues with water. Retain as contaminated waste. Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Highly flammable product. Avoid breathing vapours. Handle and open containers with care in a wellventilated area. Ensure that the workplace is ventilated such that the Occupational Exposure limit is not exceeded. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Do not eat, drink or

Product: METHYL ETHYL KETONE

smoke in contaminated areas. Electrostatic charges may be generated during transfer. Electrostatic discharge may cause fire. Ensure electrical continuity by earthing all equipment.

Conditions for safe storage, including any incompatibilities

Store in a well-ventilated area, away from sunlight, ignition sources and other sources of heat. Do not store near strong oxidants.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure control measures

From National Occupational Health & Safety Commission (NOHSC) Worksafe Australia - Methyl Ethyl Ketone: 445mg/m³ (150ppm) TWA (8hr), STEL 890mg/m³ (300ppm).

Biological monitoring

No biological limit allocated.

Engineering controls

Ensure that adequate ventilation is provided. Maintain air concentrations below recommended exposure standards. Avoid generating and inhaling mists and vapours. Keep containers closed when not in use.

Individual protection measures

Eye and face protection:	Wear safety goggles.
Skin protection:	Use solvent resistant gloves, nitrile for longer term protection or PVC and neoprene for incidental splashes.
Respiratory protection:	If work practices do not maintain airborne level below the exposure standard, use appropriate respiratory protection equipment. When using respirators, select an appropriate combination of mask and filter. Select a filter for organic gases and vapours (boiling point > 65°C). Respirators should comply with AS1716 or an equivalent approved by a state/territory authority.
Thermal hazards:	Not applicable.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colourless clear liquid
Odour:	Characteristic
Odour threshold (ppm):	Data not available
pH:	Data not available
Melting point/freezing point (°C):	-86
Initial boiling point and boiling range (°C):	79 - 80
Flash point (°C):	-4 (closed cup)
Evaporation rate (Butyl acetate = 1):	Data not available
Flammability:	Highly flammable
Upper/lower flammability or explosive limits (%):	1.8 – 11.5
Vapour pressure (kPa @ 20°C):	9.5
Vapour density (air = 1, @ 20°C):	2.4
Density (g/ml @ 15°C):	0.805
Solubility (g/l @ 20°C):	250

Partition coefficient: n-octanol/water:	Data not available
Auto-ignition temperature (°C):	515
Decomposition temperature (°C):	Data not available
Kinematic viscosity (mm ² /s @ 20°C):	Data not available

SECTION 10 STABILITY AND REACTIVITY

Reactivity

Stable under normal conditions of use.

Chemical stability

Stable under normal conditions of use.

Possibility of hazardous reactions

Stable under normal conditions of use.

Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources.

Incompatible materials

Strong oxidising agents, reducing agents, acids, alkalis.

Hazardous decomposition products

Burning can produce carbon monoxide and/or carbon dioxide.

SECTION 11 TOXICOLOGICAL INFORMATION

Expected to be of low toxicity -		
LD50 Oral (rat) > 2000mg/kg		
LD50 Inhalation (rat) > 20mg/l (4 hours)		
LD50 Dermal (rabbit) > 2000mg/kg		
Prolonged contact may cause irritation and defatting of skin which can		
lead to dermatitis.		
Irritating to avec		
Irritating to eyes.		
Not expected to be a consition		
Not expected to be a sensitiser.		
Not expected to be mutagenic.		
Not expected to be carcinogenic.		
Not expected to impair fertility.		
Inhalation of vapours or mists may cause drowsiness and irritation to the		
respiratory system. High concentrations may cause central nervous		
system depression.		
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No data available.		
Aspiration into the lungs when swallowed or vomited may cause chemical		
pneumonitis which can be fatal.		

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity

Acute toxicity:

Fish –

Low toxicity: LC/EC/IC50 > 1000mg/l

Product: METHYL ETHYL KETONE

Aquatic invertebrate –	Low toxicity: LC/EC/IC50 > 100mg/I
Algae –	Low toxicity: LC/EC/IC50 > 1000mg/I
Microorganisms –	Low toxicity: LC/EC/IC50 > 1000mg/I
Chronic toxicity:	
Fish –	Data not available
Aquatic invertebrate –	Data not available

Algae –	Data not available
Microorganisms –	Data not available

Persistence and degradability

Biodegradable, oxidises rapidly by photochemical reactions in air.

Bioaccumulative potential

Not expected to bioaccumulate significantly.

Mobility in soil

Miscible with water.

Other adverse effects

Data not available.

SECTION 13 DISPOSAL CONSIDERATIONS

Ensure waste disposal conforms to local waste disposal regulations.

SECTION 14 TRANSPORT INFORMATION

UN number:	1193
Proper shipping name:	Ethyl Methyl Ketone
Australian Dangerous Goods class:	3
Australian Dangerous Goods packing group:	П
Hazchem code:	•2YE

SECTION 15 REGULATORY INFORMATION

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP), Poisons Schedule:	5
Australian Inventory of Chemical Substances (AICS):	Listed
Dangerous Goods Initial Emergency Response Guide (SAA/SNZ HB76):	14

SECTION 16 OTHER INFORMATION

Date of preparation:	26/08/2021
Revision number:	6
Changes in this revision:	Reviewed due to expiration

This SDS summarises product safety information at the date of issue, to the best of our knowledge, as a general guide. Recochem cannot anticipate or control the conditions under which the product is used, so prior to usage each user must assess and control the risks associated with their use of the product. Users should also consult the relevant legislation governing the use and storage of this product. We make no warranties, express or implied, and assume no liability in connection with any use of information contained within this document. If clarification or further information is needed, the user should contact Recochem on (07) 3308 5200.