

# Safety Data Sheet

Infosafe No™ ACE12 Issue Date : March 2021 ISSUED by ACECHEM



Product Name **METHYL ETHYL KETONE (MEK)**

Classified as hazardous

## 1. Identification

<b>GHS Product Identifier</b>	METHYL ETHYL KETONE (MEK)				
<b>Product Code</b>	M352448				
<b>Company Name</b>	ACE CHEMICAL COMPANY (ABN 35619819300)				
<b>Address</b>	119A Mooringe Avenue Camden Park SA 5038 AUSTRALIA				
<b>Telephone/Fax Number</b>	Tel: 08-8376 0844 Fax: 08-8295 8563				
<b>Emergency phone number</b>	0438760844				
<b>E-mail Address</b>	acechem@bigpond.com				
<b>Recommended use of the chemical and restrictions on use</b>	Solvent for virtually all synthetic and natural resins used in the manufacture of paints. Lubricating oil dewaxing				
<b>Other Names</b>	<table><thead><tr><th><u>Name</u></th><th><u>Product Code</u></th></tr></thead><tbody><tr><td>MEK</td><td></td></tr></tbody></table>	<u>Name</u>	<u>Product Code</u>	MEK	
<u>Name</u>	<u>Product Code</u>				
MEK					
<b>Other Information</b>	Ace Chemical Company has taken care in compiling this information. No liability is accepted wether direct or indirect from its application since the conditions of final use are outside Ace Chemical Companies control.				

## 2. Hazard Identification

<b>GHS classification of the substance/mixture</b>	Eye Damage/Irritation: Category 2A Flammable Liquids: Category 2 STOT Single Exposure: Category 3 (narcotic) STOT Single Exposure: Category 3 (respiratory tract irritation)
<b>Signal Word (s)</b>	DANGER
<b>Hazard Statement (s)</b>	AUH066 Repeated exposure may cause skin dryness or cracking. H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.
<b>Pictogram (s)</b>	Flame, Exclamation mark  
<b>Precautionary statement – Prevention</b>	P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting//equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash contaminated skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protection/face protection.
<b>Precautionary statement – Response</b>	P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact 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.

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**Precautionary statement – Storage** P370+P378 In case of fire: Use for extinction.  
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.

**Precautionary statement – Disposal** P501 Dispose of contents/container to .

### 3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Methyl Ethyl Ketone	78-93-3	100 %

### 4. First-aid measures

**Inhalation** Remove affected person from contaminated area and seek medical advice. If not breathing apply artificial respiration and seek urgent medical advice.

**Ingestion** If swallowed, do NOT induce vomiting, give a glass of water and seek medical advice.

**Skin** Soak contaminated clothing with water and then remove. Wash skin with soap and water.

**Eye contact** Flood eyes with plenty of water for 20 minutes. If irritation occurs seek medical advice.

**First Aid Facilities** Eye wash fountains and safety showers should be available for emergency use.

**Advice to Doctor** Treat symptomatically.

### 5. Fire-fighting measures

**Suitable extinguishing media** Use foam, CO2 or powder to extinguish fire.

**Specific hazards arising from the chemical** Flammable liquid. Combustion products include oxides of carbon. Keep storage tanks, pipelines, fire exposed surfaces etc cool with water spray. Shut off any leak if safe to do so and remove sources of re-ignition. Vapour/air mixtures may ignite explosively and flashback along the vapour trail may occur.

**Hazchem Code** 2[Y]E

### 6. Accidental release measures

**Other Information** Wear appropriate personal protective equipment. Extinguish or remove all sources of ignition and stop leak if safe to do so. Contain the spill with sand or earth and take up with a vacuum truck or absorb with absorbent material, sand or earth. Keep away from heat, naked flames and sparks. Place used absorbent in suitable sealed containers for disposal.

### 7. Handling and storage

**Conditions for safe storage, including any incompatibilities** Store in a well ventilated place away from ignition sources, oxidizing agents foodstuffs and clothing. Keep containers closed when not in use. Take precautions against static electricity discharges.

### 8. Exposure controls/personal protection

**Occupational exposure limit values** NOHSC Exposure Standards have been established for this product.  
TWA (8 Hr) STEL (15 Min)  
ppm mg/m3 ppm mg/m3  
150 445 300 890

**Appropriate engineering controls** Provide sufficient ventilation to keep airborne levels below the exposure limit. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a flame proof exhaust ventilation system is required.  
Refer to AS 1940 - The storage and handling of flammable and combustible liquids and AS 2430 - Explosive gas atmospheres for further information concerning ventilation requirements.

**Personal Protective Equipment** Avoid contact with the skin and eyes, and avoid breathing vapours or mists.

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When exposure is likely, personal protective equipment in a combination appropriate to the degree and nature of exposure, should be selected from the following list:-

- (1) Eye protection
- (2) PVA gloves
- (3) PVA apron and sleeves, or full PVA covering
- (4) Rubber boots

Where the concentration of vapour or mist is expected to approach the exposure limit, the following additional equipment is recommended:-

- (1) Short elevated exposures, eg spillage - goggles and correct respiratory protection should be worn.  
NB if the vapour/mist concentrations exceed the exposure limit by more than 10 times, air supplied apparatus should be used.
- (2) For prolonged elevated exposures - Full face air supplied or self contained breathing apparatus should be worn.

#### CONTAMINATION

If contamination occurs, change clothing. Clothing wet with product should be soaked with water before removal to prevent the possibility of ignition by static electricity discharges. Launder contaminated clothing before reuse, and discard internally contaminated gloves and footwear. Observe good personal hygiene.

## 9. Physical and chemical properties

<b>Appearance</b>	Water white liquid with strong ketonic odour
<b>Melting Point</b>	-86.00 °C
<b>Boiling Point</b>	IBP: 79.00 °C FBP: 81.00 °C
<b>Solubility in Water</b>	Soluble
<b>Specific Gravity</b>	0.80 @ 20 °C
<b>Vapour Pressure</b>	8.90 kPa @ 20 °C
<b>Vapour Density (Air=1)</b>	2.40 @ 20 °C
<b>Evaporation Rate</b>	3.70
<b>Volatile Component</b>	100.00
<b>Flash Point</b>	-4.00 °C
<b>Flammability</b>	Product is Highly Flammable. Isolate from sources of heat, naked flames, sparks and oxidising materials. Take precautions against discharges of static electricity Earth and bond all process equipment including tanks and drums. Ensure ventilation is adequate to prevent build up of explosive atmosphere. Refer to AS 1940 - Storage and handling of flammable and combustible liquids and AS 2865 - Safe working in a confined space, for more specific information on these subjects.
<b>Auto-Ignition Temperature</b>	515.00 °C
<b>Flammable Limits - Lower</b>	1.80 %v/v
<b>Flammable Limits - Upper</b>	11.50 %v/v

## 10. Stability and reactivity

**Possibility of hazardous reactions** Stable

## 11. Toxicological Information

**Ingestion** May cause mild gastric irritation and CNS depression.

**Inhalation** Inhalation causes irritation to the respiratory system. Prolonged exposure to vapours may cause somnolence and narcosis.

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<b>Skin</b>	Mildly irritating to skin.
<b>Eye</b>	Irritating to the eyes.
<b>Chronic Effects</b>	Repeated inhalational or dermal exposure to n-hexane can cause peripheral neuropathy in exposed individuals. Recovery is not immediate on cessation of exposure, and the effects may progress for 2 - 3 months. Final recovery may take more than a year and may not necessarily be complete, depending on the severity of exposure. These effects are associated with n-hexane not the other hexane isomers. Concurrent exposure to n-hexane and methyl ethyl ketone (MEK) will accelerate the onset of n-hexane induced nerve damage, although MEK alone will not cause such damage. Prolonged and repeated skin contact may cause dermatitis due to defatting effect.

## 12. Ecological information

## 13. Disposal considerations

<b>Waste Disposal</b>	Follow state or local authority regulations and guidelines for disposal of the waste. Clean area with detergent and water - do not allow product to enter drains, sewers or water courses- inform the local authorities if this occurs.
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## 14. Transport information

<b>Transport Information</b>	Classified as a Dangerous Good (Class 3) for transport purposes.
<b>U.N. Number</b>	1193
<b>UN proper shipping name</b>	ETHYL METHYL KETONE (METHYL ETHYL KETONE)
<b>Transport hazard class(es)</b>	3
<b>Hazchem Code</b>	2[Y]E
<b>Packing Group</b>	II
<b>EPG Number</b>	3A1
<b>IERG Number</b>	14

## 15. Regulatory information

<b>Poisons Schedule</b>	S5
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## 16. Other Information

<b>Literature References</b>	For detailed advice on Personal Protective equipment, refer to the following Australian Standards :- HB 9 (Handbook 9) Manual of industrial personal protection. AS 1337 Eye protectors for industrial applications. AS 1715 Selection, use and maintenance of respiratory protective devices. AS 1716 Respiratory protective devices.
<b>Contact Person/Point</b>	Ace Chemical Company 119A Mooringe Avenue Camden Park S.A. 5038 Tel: 08-8376 0844 Fax: 08-8295 8563 or Poisons Information Centre Tel: 13 11 26 Disclaimer: Ace Chemical Company has taken care in compiling this information. No liability is accepted whether direct or indirect from its application since the conditions of final use are outside Ace Chemical Companies control. ...End Of MSDS...

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