

SAFETY DATA SHEET

CODE: MEK

ISSUE DATE: 09/10/2024 REVISION: 1.1



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1.0 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE SUPPLIER

Product Name:	Methyl Ethyl Ketone (M.E.K) Solvent
Product Code:	MEK
Recommended use:	General purpose solvent thinner/cleaner solvent for use with Epoxy Systems
Supplier:	Adhesive Technologies NZ Limited
Street Address:	17 Corban Avenue, Henderson, Auckland
Telephone Number:	0064 9 838 6961 (8.00am to 5.00pm, Monday to Friday)
Facsimile:	0064 9 836 4849
Web Address	http://www.adhesivetechnologies.co.nz/
Emergency Telephone:	0064 3 479 7248 (From overseas)
National Poison Information Centre	0800 POISON (764 766) (within New Zealand)
New Zealand Fire Service	111
Date of issue	09/10/2024
Version	1.1

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2.0 HAZARDS IDENTIFICATION

Hazard Classification

Highly Flammable Liquids:

Category 2

Acute Toxicity (Oral):

Category 5

Skin Irritation:

Category 1C

Eye irritation:

Category 2A (2A/2B)

Specific Target Organ Toxicity (Chronic):

Category 2

Signal Word: DANGER



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Precautionary Statements

Health Hazards

- | | |
|-------------|---|
| H226 | Flammable Liquid and Vapour |
| H303 | Harmful if Swallowed |
| H316 | Causes Skin Irritation |
| H319 | Causes eye irritation |
| H332 | Harmful if inhaled |
| H373 | May cause damage to organs through prolonged or repeated exposure |

Precautionary Statements

Prevention

- | | |
|-------------|---|
| P102 | Keep out of reach of Children |
| P103 | Read Label/SDS before use |
| P201 | Obtain instructions before use |
| P202 | Do not handle until all safety precautions have been read and understood |
| P210 | Keep away from heat/sparks/open flame/hot surfaces. No smoking. |
| P233 | Keep container tightly closed |
| P240 | Ground/bond container and receiving equipment |
| P241 | Use explosion proof equipment |
| P242 | Use only non-sparking tools |
| P243 | Take precautionary measures against static discharge |
| P260 | Do not breathe vapours |
| P261 | Do not breath dust/fumes/gas/mist/vapours/spray |
| P264 | Wash hands and exposed skin thoroughly after handling |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection |

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Response

P101	If medical advice is needed, have product container or label at hand
P301 + P312	If swallowed call POISON CENTRE or DOCTOR if you feel unwell
P330	Rinse out mouth, do not swallow
P303 + P353	If on skin or hair, wash with plenty of soap and water
P332 + P313	If skin irritation occurs, get medical advice
P361	Take off contaminated clothing and wash before reuse
P304 + P340	If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing
P305 + P351	If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so, continue to rinse
P337 + P313	If eye irritation persists seek medical advice
P308 + P313	If exposed or concerned seek medical advice
P314	Get medical advice if you feel unwell
P370 + P378	In case of fire use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish. DO NOT USE water jet (this will only spread the fire)
P391	Collect any spillage
P301+P330	IF SWALLOWED: Rinse out mouth, do not swallow water, DO NOT induce vomiting.

Storage

P405	Store locked up
P403+P235	Store in a well-ventilated place. Keep cool.
P233	Keep container tightly closed.

Disposal

P501	Dispose of contents/container to approved waste disposal plant.
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3.0 COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture**Chemical Nature:** Organic Peroxide**Hazardous Ingredients:**

Chemical Name	CAS No.	Concentration (%)
Methyl Ethyl Ketone (MEK)	78-93-3	100
Other non-hazardous components		to 100

4.0 FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre Phone 0800 764 766.

Inhalation: Move the person to fresh air immediately. Keep warm and at rest until recovered. Get medical advice if person feels unwell or is concerned.

Begin artificial respiration if breathing has stopped and get immediate medical assistance.

Swallowed:

If swallowed, DO NOT induce vomiting. Rinse mouth. Get medical advice. Begin artificial respiration if the victim is not breathing. Use mouth to nose rather than mouth to mouth. Obtain immediate medical attention.

Skin Contact:

If skin contact occurs, remove contaminated clothing and wash skin with soap and water. If skin irritation occurs, get medical advice. Launder contaminated clothing before re-use.

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Eye Contact:

Hold eyelids apart and flush the eye continuously with running water for 15 minutes. Remove contact lenses after 5 minutes if present, and easy to do. Continue flushing. Get immediate medical attention if irritation persists.

First Aid facilities:

Provide eye baths and safety showers close to areas where splashing may occur.

Note to Doctor/Physician:

Treat symptomatically. Show doctor this notice.

5.0 FIRE FIGHTING MEASURES

Flammable liquids and vapours:

Shut off product that may 'fuel' a fire if safe to do so. Allow trained personnel to attend a fire in progress, providing fire fighters with this Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

Suitable extinguishing media:

Water mist or fog, carbon dioxide (CO₂), foam or dry chemical.

DO NOT use Jetstream of water.**Hazards from combustion products:**

Smoke, fume, carbon dioxide and carbon monoxide and incomplete combustion products.

Precautions for fire fighters and special protective equipment:

Full protective clothing and selfcontained breathing apparatus.

Hazchem Code: 2YE

Highly Flammable liquid and vapour. Vapour/Air mixture may ignite explosively. Flash back along vapour trail may occur. Run off into drains or sewer may create a fire or explosion hazard.

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SPECIAL FIREFIGHTING PROCEDURES.

Wear full protective clothing and self-contained breathing apparatus in positive pressure mode, in case of fire the product may be violently or explosively reactive. Use water spray to disperse the vapours. Prevent product and vapours from entering drains/sewers/water courses.

6.0 ACCIDENTAL RELEASE MEASURES

Steps to be taken if the material is released or spilled.

Evacuate personnel to a safe area. Use Protective equipment as required. Ensure adequate ventilation in area. Make sure there is no risk to self or personnel.

Turn off leak if safe to do so.

Eliminate all sources of ignition (flames, hot surfaces, electrical, static or frictional sparks, no smoking). Then ventilate the area.

Contain the area of spillage and place material into container for use or disposal. Absorb remainder on sand or perlite and place the saturated absorbent into closed containers and label for disposal.

Prevent contamination of storm-water drains and waterways.

Waste disposal method. Destroy by liquid incineration with off-gas scrubber.

Contaminated absorbent to be disposed of in accordance with appropriate local or governmental regulations.

Correctly label all material containers to be disposed of.

7.0 HANDLING & STORAGE

Use Personal Protection. Avoid inhalation of vapour and contact with skin, eyes and clothing. Launder contaminated clothing before re-use, wash skin with soapy water. Wash hands thoroughly before eating.

This product is highly flammable, do not open near open flame, sources of heat or ignition, NO SMOKING.

Store in a locked and bunded area or approved flammable goods store away from direct heat (ideally below 25°C to prevent spoilage). Keep containers tightly closed when not in use.

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Open drums slowly in case of internal pressure. Isolate from all potential sources of ignition including flames and electrical sparks.

Hazardous polymerisation can take place when not stored correctly or close to a fire.

Store separate from oxidising materials, peroxides and metal salts.

Ground (earth) containers when using above flash point, -4°C.

8.0 EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace Exposure Limits: Worksafe Standards, November 2020

Methyl Ethyl Ketone (Cas# 78-93-3) is 150ppm TWA and 300ppm STEL

General Use:

This product is hazardous and should be used with a local exhaust ventilation to maintain vapour/dust concentration below WES level. If concentrations exceed exposure limit use organic vapour canister mask or approved air-line mask to maintain workshop limits.

Skin Protection:

Wear overalls or other work clothing providing arm and leg cover. Use protective gloves (Butyl rubber).
Use antistatic footwear.

Eye Protection:

Safety goggles or splash mask.

Environmental Control: Prevent from entering into sewer, stormwater or waterways.

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9.0 PHYSICAL & CHEMICAL PROPERTIES

Physical Description & colour:	Clear liquid.
Odour:	Pungent aromatic odour.
Boiling Point:	80°C
Flammable Liquid Flash Point:	-4°C
Flammable Limits:	LEL (lower explosive limit) 1.8% UEL (upper explosive limit) 11.5%
Relative Density:	0.81
Vapour Density:	3.6
Percent Volatiles:	100%
Water Solubility:	Mixes with water

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10.0 STABILITY & REACTIVITY

Chemical Stability	Stable under normal conditions of storage and handling.
Conditions to avoid	Heat, open flames and other sources of ignition
Incompatible Materials	Strong oxidising agents, acids and bases. Halogens, amines and alcohols.
Hazardous Decomposition Products	Thermal decomposition may result in the release of toxic and/or irritating fumes including carbon dioxide and carbon monoxide.
Hazardous Polymerization	Will not occur.

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11.0 TOXICOLOGICAL INFORMATION

When used under properly controlled conditions, within workplace exposure limits and with adequate ventilation and protective equipment, no adverse health effects are to be expected.

Acute effects of over exposure.

If Swallowed: Harmful by ingestion and may cause irritation to the mouth, throat, oesophagus with symptoms of nausea, vomiting and gastric disturbance.

Eye Contact: Moderate to serious irritation. Tearing, stinging, blurred vision and redness will occur if.

Skin Contact: This product cause moderate skin irritation, redness, itching and swelling. Repeated exposure may result in defatting of the skin causing cracking or even dermatitis.

Inhalation of Vapour: May cause headaches, nausea, irritation to the nose, throat and respiratory system. Severe inhalation may result in unconsciousness or even death.

Chronic effects of overexposure:

Mild dermatitis may result from prolonged or repeated skin contact. Seek medical advice.

Excessive exposure to the liquid material or vapour may affect the central nervous system, the liver, kidneys and respiratory system.

Suspected of causing damage to the unborn child.

May cause damage to organs through prolonged exposure.

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12.0 ECOLOGICAL INFORMATION

Prevent the product from entering storm-water drains, sewers or waterways.

Has low toxicity to Aquatic life and harmful to the soil, may contaminate ground water if reached.

Will readily biodegrade over a short time by evaporation. Dissolves in water.

13.0 DISPOSAL CONSIDERATIONS

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal methods must follow all Federal, State/Provincial, and local laws and regulations.

FOR UNUSED AND UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: recycler, reclaimer, incinerator, or other destruction device.

General information

The generation of waste should be minimised or avoided wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

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14.0 TRANSPORTATION & REGULATORY INFORMATION

Road, Rail, Sea and Air Transport

UN Number	1193
Proper Shipping Name	Methyl Ethyl Ketone
DG Class	3
Packing Group	II
Tunnel Restriction	D
HAZCHEM Code	2YE
IMO/IMDG Class	3
IMO/IATA Class	3
Marine Pollutant	No
EmS Code	F-E, S-D

Hazard Diamonds



DO NOT LOAD WITH – Explosives, toxic gases, spontaneously combustible substances, oxidisers or organic peroxides.

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15.0 REGULATORY INFORMATION

EPA New Zealand HSNO approval code:

HSR001190, Additives, Process Chemicals and Raw Materials (Flammables) Group standard 2020.

SDS to be available within 10 minutes when required.

16.0 OTHER INFORMATION

References

<https://echa.europa.eu/information-on-chemicals/cl-inventory-databas>

<https://www.epa.govt.nz/database-search/chemical-classification-and-information-database-ccid/>

<https://www.epa.govt.nz/>

RCNZ Approved HSNO CoP Preparation of Safety Data Sheets

https://www.epa.govt.nz/assets/Uploads/Documents/Hazardous-Substances/GHS2/Guide_to_Classifying_Hazardous_Substances_in_NZ.pdf

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This version replaces all previous versions.

FOR FURTHER PRODUCT INFORMATION CALL ADHESIVE TECHNOLOGIES NZ LTD DURING BUSINESS HOURS

Product Information Manager

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