



SAFETY DATA SHEET

1. IDENTIFICATION OF MATERIAL & COMPANY DETAILS

Product Name: T198 METHYL ETHYL KETONE [MEK]:

Company Name: Lacnam Paints Australia
Address: 78-80 Mandoon Road, Girraween, NSW 2145
Telephone Number: (02) 9688-1999
Emergency Number: (02) 9636-5505 (after hours)

2. HAZARDS IDENTIFICATION

HAZARDOUS SUBSTANCE-DANGEROUS GOODS:
Classified as hazardous according to criteria of ASCC.
Classified as dangerous according to Dangerous Good Code.

Xi Irritant Xn Harmful
F Highly Flammable

Risk Phrases:

R11 Highly Flammable.
R20 Harmful by Inhalation.
R36/37 Irritating to eyes and respiratory system.
R53 May cause long term adverse effects in the aquatic environment.
R65 Harmful. May cause Lung Damage if swallowed.
R66 Repeated exposure may cause skin dryness and cracking.
R67 Vapours may cause drowsiness and dizziness.

Safety Phrases:

S2 Keep out of reach of children.
S9 Keep container in well-ventilated place.
S16 Keep away from sources of ignition – NO SMOKING.
S23 Do not breathe gas, fumes, vapour or spray.
S24 Avoid contact with eyes.
S33 Take precautionary measures against static discharges
S36 Wear suitable protective clothing.
S43 In case of fire, use recommended fire extinguishers: Carbon Dioxide, Dry Chemical or Foam.
S61 Avoid release to the environment, Refer special instructions.
S62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

SAFETY DATA SHEET

T198 MEK
Page 2 of 6
Date of issue 06 July 2013

3. COMPOSITION/INFORMATION OF INGREDIENTS

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Proportion</u>
Ketone	78-93-3	100%

4. FIRST AID MEASURES

- Inhalation:** If inhalation of mists, fumes or vapour causes irritation to the nose or throat, or coughing, remove to fresh air. If symptoms persist, obtain medical advice.
- Skin:** Remove all contaminated clothing and footwear. Wash contaminated area thoroughly with soap and water as soon as reasonably practicable.
- Eyes:** Immediately flush eyes with large amounts of water for at least 15 minutes while holding eyelids open. Transport to the nearest medical facility for additional treatment.
- Swallowed:** Rinse mouth with water. Give water to drink. Do not induce vomiting. If vomiting occurs, place person's face downwards, head lower than hips to prevent vomit entering lungs. Seek medical advice.

First Aid Facilities: Ensure that an eye wash bath and safety shower, are readily accessible.

Advice to Doctor: Treat the patient symptomatically.

5. FIRE FIGHTING MEASURES:

Evacuate immediate area of non-emergency personnel.

On combustion the following products may be produced. Carbon Dioxide, Carbon Monoxide, Soot, Smoke. The vapour is heavier than air and may spread at ground level and distant ignition is possible.

Use Alcohol resistant foam, dry chemical or carbon dioxide extinguishers. Water spray may be used to cool containers to prevent vapour pressure build up. Wear full protective equipment including self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES:

Eliminate all sources of ignition. Wear full protective equipment. Contain and absorb using earth, sand or other inert material, do not use sawdust, this is flammable. Transfer into containers for disposal according to local regulations. Do not allow product to enter drains or water courses. Immediately remove all contaminated clothing after containment.

SAFETY DATA SHEET

T198 MEK
Page 3 of 6
Date of issue 06 July 2013

7. HANDLING AND STORAGE:

Keep containers closed when not in use. Store product in accordance with State, or Territory Dangerous Goods regulations. Do not load on the same vehicle as Class 1, Class 2.1, Class 2.3, Class 4.2, Class 5.1, Class 5.2 or Class 7.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

Hazardous Components Data:

Chemical Type:	CAS. No	TWA (Refer Section 16)	
		ppm	mg/m ³
Ketone	78-93-3	150	445

Based on available information on hazardous components of this product, the recommended exposure limit, (TWA) is 150 ppm.

Exposed individuals may be desensitised to product and are not reasonably expected to be warned, by smell, that exposure standard is being exceeded.

If the TWA concentration of ANY of the components is exceeded the individual is deemed to be over exposed.

Engineering Controls: : Ensure ventilation is adequate, (typically 10 air changes per hour). If applicable use process enclosures, local exhaust ventilation or other engineering controls to maintain airborne levels below recommended exposure limits. Flameproof equipment is necessary in the area where this product is used. All equipment should be earthed to prevent static build up. Keep containers closed when not in use. Do not use near ignition sources.

Personal Protection: Avoid contact with skin and eyes. Wear suitable clothing such as impervious overalls, PVC or Neoprene gloves, and safety goggles. Wear an approved half-face respirator suitable for organic vapour, meeting AS1715/1716. Select a filter suitable for organic gases and vapours rated for; [boiling point > 65°C]. In confined spaces with inadequate ventilation, wear an air-fed face mask.

Flammability: Highly flammable. Avoid heat and sources of ignition. Container should be earthed when pouring.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: Colourless liquid.

Boiling/Melting Point (°C): 79.0 - 80.5 / -86.0

Vapour Pressure: 9500 Pa @ 20°C

Specific Gravity: 0.804 – 0.806

Flashpoint (°C): -4.0

Auto-ignition temperature (°C): 515

Flammability Limits (% by Volume): 1.8 - 11.5

Solubility in Water: 250g/l @ 20°C

SAFETY DATA SHEET

T198 MEK
Page 4 of 6
Date of issue 06 July 2013

10. STABILITY AND REACTIVITY:

Do not store: In areas of extreme heat generated by naked flame or heating element.
In the presence of incompatible materials.

At Ambient Temperature: Product is considered stable.
Hazardous polymerisation will not occur.

11. TOXICOLOGICAL INFORMATION:

Acute - Swallowed: May cause irritation to mouth, throat and digestive tract. Large dose may cause drowsiness and may lead to unconsciousness.

Acute - Eye: Irritating to the eyes.

Acute - Skin: Irritating to the skin. Has a degreasing action on the skin. Repeated or prolonged skin contact may lead to contact dermatitis and toxic effects.

Acute - Inhaled: Vapour may be an irritant to mucous membranes and respiratory tract. Inhalation of vapour can result in headaches, dizziness and possible nausea. Inhalation of high concentrations can produce central nervous system depression, which can lead to loss of co-ordination, impaired judgement and, if exposure is prolonged, unconsciousness and death. Harmful if inhaled.

Chronic: Repeated or prolonged exposure to this chemical could result in central nervous system disorders.

12. ECOLOGICAL INFORMATION:

Prevent release into the environment.

Do not discharge into sewer or waterways.

May cause adverse effects to marine organisms.

May cause adverse effects to marine environment.

If product enters soil, it will be highly mobile and may contaminate ground water.

13. DISPOSAL CONSIDERATIONS:

Refer to State Land Waste Management Authority. Advice flammable nature of product.

Material Disposal: Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated, and to assess the appropriate waste classification and disposal methods.

Container Disposal: Drain containers thoroughly. Vent in a safe position away from naked flames and sparks. Residue may cause an explosion. Do not puncture, cut or weld. Send to Approved Drum/Metal Recyclers.

This product is not suitable for landfill.

SAFETY DATA SHEET

T198 MEK
Page 5 of 6
Date of issue 06 July 2013

14: TRANSPORT INFORMATION:



Classified as Dangerous Goods by criteria of the Australian Dangerous Goods Code (ADG Code) for transport by road or rail.

Product Name: T198 MEK.
Other Names: Methyl Ethyl Ketone
Manufacturer's Product Code: 198
UN Number: 1193
Packaging Group: II
Dangerous Goods Class & Subsidiary Risk: 3
Hazchem Code: 2[Y]E
Use: Solvent for Paints

Air Transport IATA:

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS.

Product Name: T198 MEK.
Other Names: Paint Thinner
ICAO/IATA Class: 3
Subsidiary risk: None
UN No: 1193
Packaging Group: II
Shipping name: Paint Related Material

Marine Transport:

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.

Product Name: T198 MEK.
Other Names: Paint Thinner
UN No: 1193
Class-primary: 3 Flammable Liquid
Packing Group: II
Shipping Name: Paint Related Material

Do not load on the same vehicle as:

Class 1:	Explosives
Class 2.1:	Flammable Gases
Class 2.3:	Toxic Gasses
Class 4.2:	Spontaneously Combustible Substances
Class 5.1:	Oxidising Agents
Class 5.2:	Organic Peroxides
Class 7:	Radioactive Substances

SAFETY DATA SHEET

T198 MEK
Page 6 of 6
Date of issue 06 July 2013

15: REGULATORY INFORMATION:

Poisons Schedule Number: 5

16: OTHER INFORMATION:

Safe Work Australia: published the Approved Criteria for Classifying Hazardous Substances [NOHSC: 1008(1999)]. Section 4.76, this document outlines the criteria for classifying carcinogens as approved by the Australian government. This classification consists of three categories:

- Category 1: Substances known to be carcinogenic to humans.
- Category 2: Substances that should be regarded as if they were carcinogenic to humans.
- Category 3: Substances that have possible carcinogenic effects in humans but about which there is insufficient information to make an assessment.

All product components are either not listed or below minimum reportable Hazardous Concentration Cut-off Limits.

Hazardous Concentration Cut-off Levels: A concentration cut-off level for a substance is the level (expressed as a percentage on a weight/weight basis for solids and liquids and a volume/volume basis for gases) at and above which that substance is classified as a hazardous substance.

A mixture is classified as a hazardous substance if it contains at least one ingredient at a concentration equal to, or above, the lowest concentration cut-off level given for that ingredient

IRAC: (International Agency for Research on Cancer) Listed Carcinogenicity: Nil

TWA: Exposure standard-time weighted average; the average airborne concentration of a particle substance when calculated over a normal eight hour working day, for a five day week.

ppm: Parts of vapour or gas per million parts of contaminated air by volume.

mg/m³: Milligrams of substance per cubic metre of air at 25°C and one atmosphere pressure. When entry is in this column only the value is exact; when listed with a ppm value, it is approximate.

CONTACT POINT

Technical Manager	- Working hours	(02) 9688-1999
	- After hours	(02) 9636-5505

Although this information is presented in good faith and compiled from various sources believed to be accurate, Lachnam Paints make no representations or warranty as to the completeness or accuracy thereof. As the product's performance and suitability depends on various factors, the purchasers of our products should determine for themselves whether the product is suitable for their particular use.

Hazardous according to criteria of Australian Safety Compensation Council