



## MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION OF MATERIAL & COMPANY DETAILS

**Product Name: T197 TOLUENE:**

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.

Xn Harmful. Xi Irritant  
F Highly Flammable

**Risk Phrases:**

R11 Highly Flammable.  
R20/48 Harmful: danger of serious damage to health by prolonged exposure through inhalation  
R37 Irritating to eyes and respiratory system.  
R38 Irritating to skin  
R63 Possible risk or harm to the unborn child.  
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.  
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  
S36/37 Wear suitable protective clothing and gloves.  
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.

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## 3. COMPOSITION/INFORMATION OF INGREDIENTS

| <u>Chemical Name</u> | <u>CAS Number</u> | <u>Proportion</u> |
|----------------------|-------------------|-------------------|
| Liquid Hydrocarbons  | 108-88-3          | 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 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.

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## 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 <sup>3</sup> |
| Liquid Hydrocarbon | 108-88-3 | 50                     | 191               |

Based on available information on hazardous components of this product, the recommended exposure limit, (TWA) is 50 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):** Range 110.0 - 111.0 / -95.0

**Vapour Pressure:** 3.0 - 3.5 kPa @ 20°C

**Specific Gravity:** 0.871 @ 15°C

**Flashpoint (°C):** 4.0

**Auto-ignition temperature (°C):** 480 - 536

**Flammability Limits (% by Volume):** 1.2 - 8.0%

**Solubility in Water:** 0.515kg/m<sup>3</sup>

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## 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, choking, wheezing and possible nausea. Symptoms maybe delayed for several hours after exposure. 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. Auditory system effects may include temporary hearing loss and/or ringing in the ears. Harmful if inhaled.

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

## 12. ECOLOGICAL INFORMATION:

Prevent release into the environment.

Do not discharge into sewer or waterways.

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

Oxidises rapidly by photo-chemical reactions in air.

In the view of the high rate of loss from solution, the product is unlikely to pose a significant hazard to aquatic life.

## 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.

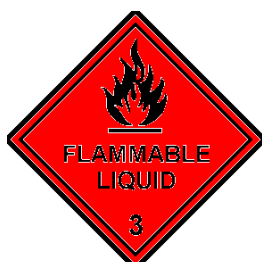
**Container Disposal:** Drain containers thoroughly. Vent in a safe position away from naked flames and sparks. Residue may cause an explosion. Do not puncture, cut or weld. Send to Approved Drum/Metal Recyclers.

This product is not suitable for landfill.

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## 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:** T197 Toluene  
**Other Names:** Methyl Benzol Toluene  
**Manufacturer's Product Code:** 197  
**UN Number:** 1294  
**Packaging Group:** II  
**Dangerous Goods Class & Subsidiary Risk:** 3  
**Hazchem Code:** 3[Y]E  
**Use:** Thinner for Enamel Paints

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.

## 15: REGULATORY INFORMATION:

**Poisons Schedule Number:** 6

## 16: OTHER INFORMATION:

**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/m<sup>3</sup>:** 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**