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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

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### Chemical Characterization

Liquid

<u>Ingredients</u>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard</u>	<u>R Phrase</u>
	Ethoxylated bisphenol A dimethacrylate	24448-20-2	60-100 %		
	Hydroxypropyl methacrylate	27813-02-1	1-5 %		
	Cumene hydroperoxide	80-15-9	1-3 %		
	Ingredients determined not to be hazardous	Not required	Balance to 100%		

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## 3. HAZARDS IDENTIFICATION

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Irritating to eyes and respiratory system.  
May cause sensitization by skin contact.

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## 4. FIRST AID MEASURES

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### Inhalation

Remove victim from exposure - avoid becoming a casualty. Recovery should be rapid after removal from exposure. Seek medical advice if effects persist. Inhalation should not be a problem as product is relatively NON-VOLATILE; Refer to TOXICITY DATA SECTION.

### Ingestion

Do NOT induce vomiting. Wash out mouth with water and give plenty of water to drink. If symptoms develop seek medical attention.

### Skin

Wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.

### Eye

If contact with the eye(s) occur, wash with copious amounts of water for approximately 15 minutes holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. In all cases of eye contamination

it is a sensible precaution to seek medical advice.

**First Aid****Facilities**

Eyewash station and normal washroom facilities must be provided, and a safety shower is strongly recommended.

**Advice to Doctor**

Treat symptomatically.

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**5. FIRE FIGHTING MEASURES**

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**Extinguishing****Media**

Use carbon dioxide, dry chemical, or foam.

**Specific Hazards****Hazardous****Combustion****Products**

Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide, carbon dioxide and oxides of nitrogen.

**Decomposition****Temp.**

N/A

**Precautions in  
connection with  
Fire**

Fire-fighters should wear full protective clothing and self contained breathing apparatus (SCBA) operated in positive pressure mode.

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**6. ACCIDENTAL RELEASE MEASURES**

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Wear appropriate personal protective equipment and clothing to minimise exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unnecessary personnel. If possible contain the spill. Place inert absorbent material onto spillage. Use clean non-sparking tools to collect the material and place into a suitable labelled container. Do not dilute material but contain. Dispose of waste according to federal, Environmental Protection Authority and state regulations. If the spillage enters the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

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**7. HANDLING AND STORAGE**

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**Handling**

Use in a well ventilated area. DO NOT store or use in confined spaces. Build up of mists or vapours in the atmosphere must be prevented. Avoid breathing in spray or mists or vapours. Do not use near welding or other ignition sources and avoid sparks. Do not smoke. When dealing with large quantities, repeated or prolonged skin exposure without protection should be prevented in order to lessen the possibility of skin disorders. It is essential that all who come into contact with this material maintain high standards of personal hygiene ie. washing hands prior to eating, drinking, smoking or using toilet facilities.

**Storage**

Store in a cool, dry, well-ventilated area, out of direct sunlight. Keep containers closed when not in use. Store in suitable, labelled containers. Ensure that storage complies with State and local regulations for the storage of dangerous goods.

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**8. EXPOSURE CONTROLS, PERSONAL PROTECTION**

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**Exposure Limits**

No exposure standards have been established for this material by the National Occupational Health And Safety Commission (NOHSC).; but a standard does exist for the following ingredient/s:

SUBSTANCE	TWA	STEL
Silica, Fumed	- ppm    2 mg/m <sup>3</sup>	- ppm    - mg/m <sup>3</sup>

**Respiratory Protection**

If engineering controls are not effective in controlling airborne exposure then respiratory protective equipment should be used suitable for protecting against airborne contaminants. Final choice of appropriate breathing protection is dependant upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices.

**Eye Protection**

Safety glasses with side shields, goggles or full-face shield as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

**Hand Protection**

Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

**Personal Protective**

Product Name : LOCTITE 620 HIGH TEMPERATURE RETAINING COMPOUND

**Equipment**

Wearing of the following personal protective equipment is recommended. Safety glasses. PVC or rubber gloves.

**Body Protection**

Wear appropriate clothing including chemical resistant apron where clothing is likely to be contaminated. It is advisable that a local supplier of personal protective clothing is consulted regarding the choice of material.

**Eng. 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.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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**Appearance**

ANAEROBIC LIQUID, COLOUR GREEN, MILD CHARACTERISTIC ODOUR.

**Decomposition****Temperature**

N/A

**Melting Point**

N/A

**Boiling Point**

149° C

**Solubility in****Water**

Slight

**Specific Gravity****(H<sub>2</sub>O=1)**

(@ 20° C): 1.1 (approx)

**pH Value**

3-6 (aqueous-acetone extraction)

**Vapour Pressure**

0.1 mm of Hg at 25° C

**Vapour Density****(Air=1)**

N/A

**Volatile Component**

N/A

**Flash Point**

>93° C (COC)

**Flammability**

Will burn if involved in a fire but not considered to be a significant fire risk.

**Ignition****Temperature**

N/A

**Flammable Limits****LEL**

N/A

**Explosion****Properties**

N/A

**Molecular Weight**

N/A

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**10. STABILITY AND REACTIVITY**

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**Stability**

Stable under normal use conditons.

**Hazardous****Polymerization**

Will not occur.

**Materials to Avoid**

Strong oxidizing agents.

**Hazardous****Decomposition****Products**

Oxides of carbon, sulphur, nitrogen and irritating organic vapours.

**Hazardous Reaction**

Very strong OXIDISERS e.g.HIGH PRESSURE OXYGEN may cause SPONTANEOUS COMBUSTION. Destabilised and solidified by reducing agents.

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**11. TOXICOLOGICAL INFORMATION**

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**Toxicology****Information**

This product is essentially NON TOXIC and is not a common sensitizer. As a precaution, special care should be taken to avoid contact with traumatized or damaged skin. LD50 oral value for this product is estimated as greater than 10,000 mg/kg (rats). The product is NON-VOLATILE but some local ventilation may be advisable to remove traces of odour. Product is a mild eye irritant, therefore all eye contact should be avoided.

**Inhalation**

Product is classified as an irritant of the respiratory system. Not normally an

inhalation risk due to low vapour pressure at ambient temperatures. The product is essentially NON VOLATILE, some ventilation may be advisable to remove any traces of odour. Refer to TOXICITY DATA SECTION.

**Ingestion**

Ingestion may irritate the gastric tract causing nausea and vomiting.

**Skin**

Contact with skin may result in irritation.

May cause sensitisation by skin contact in some individuals.

**Eye**

May cause eye irritation, tearing, stinging, blurred vision, and redness.

**Chronic Effects**

Repeated or prolonged skin contact can cause chronic dermatitis.

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**12. ECOLOGICAL INFORMATION**

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**Environ.  
Protection**

Do not allow product to enter drains, waterways or sewers.

**Mobility**

Not available.

**Persistence /  
Degradability**

Not available.

**Ecotoxicity**

Not available.

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**13. DISPOSAL CONSIDERATIONS**

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Dispose of waste according to federal, EPA and state regulations.

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**14. TRANSPORT INFORMATION**

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Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

**U.N. Number**

None Allocated

**Proper Shipping  
Name**

None Allocated

**DG Class**

None Allocated

Product Name : LOCTITE 620 HIGH TEMPERATURE RETAINING COMPOUND

**Hazchem Code**

None Allocated

**Packing Group**

None Allocated

**Storage and  
Transport**

No special precautions required.

Store in original containers or approved applicators below 28°C for maximum shelf life. Never return residual unused product to original container as such residue may have become contaminated (e.g. by metal contact) and could reduce the stability of the bulk material.

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**15. REGULATORY INFORMATION**

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**Risk Phrase**

R36/37 Irritating to eyes and respiratory system.

R43 May cause sensitization by skin contact.

**Safety Phrase**

S2 Keep out of reach of children.

S23 Do not breathe gas/fumes/vapour/spray

S24/25 Avoid contact with skin and eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28 After contact with skin, wash immediately with plenty of soap and water.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

**Poisons Schedule**

Not Scheduled

**Hazard Category**

Irritant

**Packaging &  
Labelling**

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**16. OTHER INFORMATION**

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**Contact****Person/Point**

Technical Services Manager: Gerard Buys 1300 885 556 / 0411 669 002

**...End Of MSDS...**