1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name: LOCTITE 609 RETAINING COMPOUND

Synonym(s):
- NSN: 8040-66-133-3217 • NSN: 8040-66-150-1270
- 234551, 234549 - PRODUCT CODE(S) • 471311, 464829 - PRODUCT CODE(S) • LOCTITE 609 RETAINING COMPOUND ADHESIVE

1.2 Uses and uses advised against

Use(s):
- ADHESIVE • ANAEROBIC ADHESIVE • RETAINING COMPOUND

1.3 Details of the supplier of the safety data sheet

Supplier name: HENKEL AUSTRALIA PTY LTD

Address: 135 - 141 Canterbury Road, Kilsyth, Victoria, Australia, 3137

Telephone: (03) 9724 6444

Fax: (03) 9728 5877

Email: msds@au.henkel.com

Website: http://www.loctite.com.au

1.4 Emergency telephone number(s)

Emergency: 1800 032 379; (03) 9724 6556

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

GHS Classification(s):
- Skin Corrosion/Irritation: Category 2
- Skin Sensitization: Category 1
- Serious Eye Damage / Eye Irritation: Category 2A
- Specific Target Organ Systemic Toxicity (Single Exposure): Category 3

2.2 Label elements

Signal word: WARNING

Pictograms

Hazard statement(s):
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.

Prevention statement(s):
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response statement(s):
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P304 + P340 IF INHALED: Remove 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.
- P321 Specific treatment is advised - see first aid instructions.
Product name: LOCTITE 609 RETAINING COMPOUND

P333 + P313: If skin irritation or rash occurs: Get medical advice/attention.
P362: Take off contaminated clothing and wash before re-use.

Storage statement(s):
P403 + P233: Store in a well-ventilated place. Keep container tightly closed (applies if the substance is volatile so as to generate a hazardous atmosphere).
P405: Store locked up.

Disposal statement(s):
P501: Dispose of contents/container in accordance with relevant regulations.

2.3 Other Hazards
No information provided.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 Substances / Mixtures

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS number</th>
<th>EC number</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-HYDROXYETHYL METHACRYLATE</td>
<td>868-77-9</td>
<td>212-782-2</td>
<td>10-20%</td>
</tr>
<tr>
<td>CUMENE HYDROPEROXIDE</td>
<td>80-15-9</td>
<td>201-254-7</td>
<td>&lt;3%</td>
</tr>
<tr>
<td>CUMENE (ISOPROPYL BENZENE)</td>
<td>98-82-8</td>
<td>202-704-5</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>POLYETHYLENE GLYCOL DIMETHACRYLATE</td>
<td>25852-47-5</td>
<td>607-819-8</td>
<td>&gt;60%</td>
</tr>
<tr>
<td>NON HAZARDOUS INGREDIENTS</td>
<td>Not Available</td>
<td>Not Available</td>
<td>remainder</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye: If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

Inhalation: If inhaled, remove from contaminated area. To protect rescuer, use a Type A (Organic vapour) respirator or an Air-line respirator (in poorly ventilated areas). Apply artificial respiration if not breathing.

Skin: If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.

Ingestion: For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting.

First aid facilities: Eye wash facilities and safety shower are recommended.

4.2 Most important symptoms and effects, both acute and delayed
No information provided.

4.3 Immediate medical attention and special treatment needed
Treat symptomatically.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media
Dry agent, carbon dioxide or foam. Prevent contamination of drains and waterways.

5.2 Special hazards arising from the substance or mixture
Combustible. May evolve carbon oxides and hydrocarbons when heated to decomposition. May evolve nitrogen oxides when heated to decomposition.

5.3 Advice for firefighters
Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

5.4 Hazchem code
None allocated
6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Ventilate area where possible. Contact emergency services where appropriate.

6.2 Environmental precautions
Prevent product from entering drains and waterways.

6.3 Methods of cleaning up
Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal. Only trained personnel should undertake clean up.

6.4 Reference to other sections
See Sections 8 and 13 for exposure controls and disposal.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

7.2 Conditions for safe storage, including any incompatibilities
Store in a cool, dry, well ventilated area, removed from incompatible substances, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills. Large storage areas should have appropriate ventilation and fire protection systems. Store as a Class C1 Combustible Liquid (AS1940). Store between 8°C and 21°C.

7.3 Specific end use(s)
No information provided.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control parameters

<table>
<thead>
<tr>
<th>Substance</th>
<th>Reference</th>
<th>TWA ppm</th>
<th>TWA mg/m³</th>
<th>STEL ppm</th>
<th>STEL mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cumene</td>
<td>SWA (AUS)</td>
<td>25</td>
<td>125</td>
<td>75</td>
<td>375</td>
</tr>
</tbody>
</table>

Biological limits
No biological limit values have been entered for this product.

8.2 Exposure controls

Engineering Controls
Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical explosion proof extraction ventilation is recommended. Maintain vapour levels below the recommended exposure standard.

PPE
- Eye/Face: Wear splash-proof goggles.
- Hand: Wear butyl or nitrile gloves.
- Body: When using large quantities or where heavy contamination is likely, wear a PVC apron.
- Respiratory: No PPE specified.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties
- Appearance: GREEN LIQUID
- Odour: SLIGHT ODOUR
**Product name**
LOCTITE 609 RETAINING COMPOUND

**Odour Threshold**
NOT AVAILABLE

**pH**
NOT AVAILABLE

**Melting Point**
NOT AVAILABLE

**Boiling Point**
> 150°C

**Flash Point**
> 93.3°C

**Evaporation Rate**
NOT AVAILABLE

**Flammability**
CLASS C1 COMBUSTIBLE

**Upper Explosion Limit**
NOT AVAILABLE

**Lower Explosion Limit**
NOT AVAILABLE

**Vapour Pressure**
< 6 mbar

**Vapour Density**
NOT AVAILABLE

**Solubility (water)**
SLIGHTLY SOLUBLE

**Partition Coefficient**
NOT AVAILABLE

**Autoignition Temperature**
NOT AVAILABLE

**Decomposition Temperature**
NOT AVAILABLE

**Viscosity**
NOT AVAILABLE

**Explosive Properties**
NOT AVAILABLE

**Oxidising Properties**
NOT AVAILABLE

**Specific Gravity**
1.1

**9.2 Other information**

**% Volatiles**
NOT AVAILABLE

---

**10. STABILITY AND REACTIVITY**

**10.1 Reactivity**
Carefully review all information in sections 10.2 to 10.6.

**10.2 Chemical stability**
Stable under recommended conditions of storage.

**10.3 Possibility of hazardous reactions**
May polymerise with violent rupture/explosion.

**10.4 Conditions to avoid**
Avoid heat, sparks, open flames and other ignition sources.

**10.5 Incompatible materials**
May polymerise in contact with oxidising agents (e.g. nitrates), acids (e.g. nitric acid), amines, UV light, alkalis (e.g. sodium hydroxide), or if heated. Polymerisation may generate heat with potential for fire-explosion.

**10.6 Hazardous decomposition products**
May evolve carbon oxides and hydrocarbons when heated to decomposition.

---

**11. TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

**Health hazard summary**
Harmful - irritant. This product has the potential to cause adverse health effects with over exposure. Use safe work practices to avoid eye or skin contact and inhalation. May cause sensitisation by skin contact. Due to the small product size, the potential for adverse health effects may be reduced.

**Eye**
Irritant. Contact may result in irritation, lacrimation, pain and redness. May result in burns with prolonged contact.
Product name: LOCTITE 609 RETAINING COMPOUND

Inhalation: Irritant. Over exposure may result in mucous membrane irritation of the respiratory tract, coughing, weakness, nausea, vomiting and headache. High level exposure may result in dizziness, drowsiness, respiratory tract inflammation and breathing difficulties.

Skin: Irritant. Contact may result in drying and defatting of the skin, rash and dermatitis. May be absorbed through skin with harmful effects. May cause sensitisation by skin contact.

Ingestion: Harmful. Ingestion may result in nausea, vomiting, abdominal pain, diarrhoea, dizziness and drowsiness. Aspiration or inhalation may cause chemical pneumonitis and pulmonary oedema.

Toxicity data:

- 2-HYDROXYETHYL METHACRYLATE (868-77-9)
  - LD50 (Ingestion): 3275 mg/kg (mouse)
  - LD50 (Intraperitoneal): 497 mg/kg (mouse)
  - LDLo (Ingestion): 9.92 uL/kg (dog)

- CUMENE HYDROPEROXIDE (80-15-9)
  - LC50 (Inhalation): 200 ppm/4 hours (mouse)
  - LD50 (Ingestion): 382 mg/kg (rat)
  - LD50 (Skin): 500 mg/kg (rat)
  - LD50 (Subcutaneous): 392 mg/kg (rat)
  - LDLo (Ingestion): 5000 mg/kg (mouse)
  - LDLo (Skin): 1200 mg/kg (rabbit)

- CUMENE (ISOPROPYL BENZENE) (98-82-8)
  - LC50 (Inhalation): 24700 mg/m³/2H (mouse)
  - LCLo (Inhalation): 8000 ppm/4H (rat)
  - LD50 (Ingestion): 1400 mg/kg (rat)
  - LD50 (Skin): 12300 ug/kg (rabbit)
  - TCLo (Inhalation): 200 ppm (human-narcosis)

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No information provided.

12.2 Persistence and degradability
No information provided.

12.3 Bioaccumulative potential
No information provided.

12.4 Mobility in soil
No information provided.

12.5 Results of PBT and vPvB assessment
No information provided.

12.6 Other adverse effects
No information provided.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste disposal: For small amounts, absorb with sand, vermiculite or similar and dispose of to an approved landfill site. Contact the manufacturer/supplier for additional information if disposing of large quantities (if required). Prevent contamination of drains and waterways as aquatic life may be threatened and environmental damage may result.

Legislation: Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG OR IATA

14.1 UN number
None Allocated

14.2 UN proper shipping name
None Allocated
**CHEMICAL REPORT**

**Full Report**

**Product name**
LOCTITE 609 RETAINING COMPOUND

**14.3 Transport hazard classes**

<table>
<thead>
<tr>
<th>DG Class</th>
<th>None Allocated</th>
<th>None Allocated</th>
<th>None Allocated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subsidiary risk(s)</td>
<td>None Allocated</td>
<td>None Allocated</td>
<td>None Allocated</td>
</tr>
</tbody>
</table>

**14.4 Packing group**

None Allocated

**14.5 Environmental hazards**

None Allocated

**14.6 Special precautions for user**

<table>
<thead>
<tr>
<th>Hazchem Code</th>
<th>None Allocated</th>
</tr>
</thead>
</table>

**15. REGULATORY INFORMATION**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Poison schedule**
A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

**Classifications**
Xi - Irritant

**Risk phrases**
R36/37/38: Irritating to eyes, respiratory system and skin.
R43: May cause sensitisation by skin contact.

**Safety phrases**
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 water.
S37: Wear suitable gloves.
S46: If swallowed, contact a doctor or Poisons Information Centre immediately and show container or label.

**Inventory listing(s)**
AUSTRALIA: AICS (Australian Inventory of Chemical Substances)
All components are listed on AICS, or are exempt.

**15.2 Chemical safety assessment**
No information provided.

**16. OTHER INFORMATION**

**Additional information**
WORKPLACE CONTROLS AND PRACTICES: Unless a less toxic chemical can be substituted for a hazardous substance, ENGINEERING CONTROLS are the most effective way of reducing exposure. The best protection is to enclose operations and/or provide local exhaust ventilation at the site of chemical release. Isolating operations can also reduce exposure. Using respirators or protective equipment is less effective than the controls mentioned above, but is sometimes necessary.

RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

HEALTH EFFECTS FROM EXPOSURE:
It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a ChemAlert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:
The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

COLOUR RATING SYSTEM: RMT has assigned all ChemAlert reports a colour rating of Green, Amber or
Product name

LOCTITE 609 RETAINING COMPOUND

Red for the sole purpose of providing users with a quick and easy means of determining the hazardous nature of a product. Safe handling recommendations are provided in all ChemAlert reports so as to clearly identify how users can control the hazards and thereby reduce the risk (or likelihood) of adverse effects. As a general guideline, a Green colour rating indicates a low hazard, an Amber colour rating indicates a moderate hazard and a Red colour rating indicates a high hazard.

While all due care has been taken by RMT in the preparation of the Colour Rating System, it is intended as a guide only and RMT does not provide any warranty in relation to the accuracy of the Colour Rating System. As far as is lawfully possible, RMT accepts no liability or responsibility whatsoever for the actions or omissions of any person in reliance on the Colour Rating System.

Abbreviations

ACGIH - American Conference of Governmental Industrial Hygienists
CAS # - Chemical Abstract Service number - used to uniquely identify chemical compounds
CNS - Central Nervous System
EC No. - EC No - European Community Number
EMS - Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)
GHS - Globally Harmonized System
GTEPG - Group Text Emergency Procedure Guide
IARC - International Agency for Research on Cancer
LC50 - Lethal Concentration, 50% / Median Lethal Concentration
LD50 - Lethal Dose, 50% / Median Lethal Dose
mg/m³ - Milligrams per Cubic Metre
OEL - Occupational Exposure Limit
PEL - Permissible Exposure Limit
pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
ppm - Parts Per Million
REACH - Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals
STEL - Short-Term Exposure Limit
STOT-RE - Specific target organ toxicity (repeated exposure)
STOT-SE - Specific target organ toxicity (single exposure)
SUSMP - Standard for the Uniform Scheduling of Medicines and Poisons
SWA - Safe Work Australia
TLV - Threshold Limit Value
TWA - Time Weighted Average

Report Status

This ChemAlert report has been independently compiled by RMT's scientific department utilising the original Safety Data Sheet ("SDS") for the product provided to RMT by the manufacturer. The information is based on the latest chemical and toxicological research and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. It is an independent collation by RMT of information obtained from the original SDS for this product. Its content has not been authorised or verified by the manufacturer / distributor of the chemical to which it relates.

This ChemAlert report does not constitute the manufacturer's original SDS and is not intended to be a replacement for same. It is provided to subscribers of ChemAlert as a reference tool only, is not all-inclusive and does not represent any guarantee as to the properties of the product. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer.

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This report was compiled based on the SDS dated 05 Jul 2012