



MATERIAL SAFETY DATA SHEET

SECTION 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: LOCTITE 638 RETAINING COMPOUND

Product-Code: 378277

Intended use: Anaerobic Adhesive

Supplier:

HENKEL AUSTRALIA PTY. LIMITED
ADHESIVE TECHNOLOGIES
135-141 Canterbury Road
3137 Kilsyth, Victoria

Australia

Phone: +61 (3) 9724 6444

Emergency information: 24 HOUR EMERGENCY CONTACT NUMBER: 1800 032 379

SECTION 2. HAZARDS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE:

Hazardous according to the criteria of ASCC.

Classification of material Xi - Irritant

Risk phrases:

R37/38 Irritating to respiratory system and skin.

R41 Risk of serious damage to eyes.

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 and soap.

S37/39 Wear suitable gloves and eye/face protection.

S51 Use only in well-ventilated areas.

Dangerous Goods information:

Not classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

Signal word:

None



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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
Acrylic acid	79-10-7	< 10 %
2,2'-Ethylenedioxydiethyl dimethacrylate	109-16-0	< 5 %
Cumene hydroperoxide	80-15-9	< 5 %
Methacrylic acid	79-41-4	< 5 %
non hazardous ingredients~		> 60 %

SECTION 4. FIRST AID MEASURES

Ingestion:	Rinse out mouth, drink 1-2 glasses of water, do not induce vomiting. Seek medical advice.
Skin:	Rinse with running water and soap. Seek medical advice.
Eyes:	Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.
Inhalation:	Move to fresh air. If symptoms persist, seek medical advice.
First Aid facilities:	Eye wash and safety shower

SECTION 5. FIRE FIGHTING MEASURES

Suitable extinguishing media:	Carbon dioxide, foam, powder
Decomposition products in case of fire:	Oxides of carbon, oxides of nitrogen, irritating organic vapors. Sulphur oxides
Special protective equipment for fire-fighters:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions and emergency procedures:	Avoid skin and eye contact. See advice in chapter 8
Environmental precautions:	Do not let product enter drains.
Clean-up methods:	For small spills wipe up with paper towel and place in container for disposal. For large spills absorb onto inert absorbent material and place in sealed container for disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:	Use only in well-ventilated areas. Avoid skin and eye contact. Prolonged or repeated skin contact should be avoided to minimise any risk of sensitisation.
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Conditions for safe storage: Store in original containers at 8-21°C (46.4-69.8°F) and do not return residual materials to containers as contamination may reduce the shelf life of the bulk product.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National exposure standards:

Ingredient	form of exposure	TWA (ppm)	TWA (mg/m3)	Peak Limit. (mg/m3)	STEL (ppm)	STEL (mg/m3)
ACRYLIC ACID 79-10-7		2	5.9	-	-	-
METHACRYLIC ACID 79-41-4		20	70	-	-	-

Engineering controls: Use local exhaust ventilation if the potential for airborne exposure exists.

Eye protection: Wear protective glasses.

Skin protection: Wear suitable protective clothing.
The use of chemical resistant gloves such as Nitrile are recommended.

Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced.

Respiratory protection: Use only in well-ventilated areas.
If inhalation risk exists, wear a respirator or air supplied mask complying with the requirements of AS/NZS 1715 and AS/NZS 1716.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Green
liquid
Odor: irritating
Specific gravity: 1.1
Boiling point: > 149 °C (> 300.2 °F)
Flash point: > 93.3 °C (> 199.94 °F)
Vapor pressure: < 10 mm hg
Density: 1.0500 g/cm³
Solubility: Solvent: Water, Slight
Solvent: Acetone, Miscible

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid: Heat, flames, sparks and other sources of ignition.
See "Handling and Storage" (Section 7) and "Incompatibility" (Section 10).



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Incompatible materials: Reaction with strong acids.
Reacts with strong oxidants.

Hazardous decomposition products: Oxides of carbon.
Oxides of sulfur.
Oxides of nitrogen.
Irritating organic vapours.

Hazardous polymerization: Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

HEALTH EFFECTS:

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Skin: Contact with skin can cause irritation and allergic reaction (sensitization) in some individuals.

Eyes: Vapors may irritate eyes. Contact with eyes will cause irritation.
Chronic eye exposure to this product may cause irreversible eye damage.

Inhalation: Vapors may cause irritation of the nose, throat, and respiratory tract.

Toxicity data:

Acute oral toxicity:

Acrylic acid
79-10-7

LD 50 (Rat) = 193 mg/kg
LD 50 (Rat) = 1,250 mg/kg
LD 50 (Rat) = 33.5 mg/kg
LD 50 (Mouse) = 2,400 mg/kg
LD 50 (Rat) = 2.5 g/kg
LD L0 (Mouse) = 5,000 mg/kg

Cumene hydroperoxide
80-15-9

Methylacrylic acid
79-41-4

LD 50 (Mouse) = 1,250 mg/kg
LD 50 (Rat) = 1,060 mg/kg
LD 50 (Rabbit) = 1,200 mg/kg
LD 50 (Mouse) = 1,332 mg/kg
LD 50 (Rat) = 2,224 mg/kg
LD 50 (Mouse) = 1,600 mg/kg

SECTION 12. ECOLOGICAL INFORMATION

General ecological information: Do not empty into drains / surface water / ground water.
Precautions required with respect to Environmental Hazards of articles in which this product is used should be considered.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal of product: Dispose of in accordance with local and national regulations.
Contribution of this product to waste is very insignificant in comparison to article in which it is used
Not list in National Hazardous Waste Catalogue, dispose of as normal chemical waste.



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Disposal for uncleaned package: After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated. Disposal must be made according to official regulations.

SECTION 14. TRANSPORT INFORMATION

Road and Rail Transport:

Dangerous Goods information: Not classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

General information:

Not hazardous according to RID, ADR, ADNMR, IMDG, IATA-DGR.

SECTION 15. REGULATORY INFORMATION

SUSDP Poisons Schedule: None

AICS: All components are listed or are exempt from listing on the Australian Inventory of Chemical Substances (AICS).

SECTION 16. OTHER INFORMATION

Abbreviations/acronyms: ASCC - Australian Safety and Compensation Council
ADGC - Australian Dangerous Goods Code
SUSDP - Standard for the Uniform Scheduling of Drugs and Poisons
TWA - Time weighted average
STEL - Short term exposure limit

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Disclaimer:

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