

# Material Safety Data Sheet

Infosafe No.            1LO1E            Issue Date: May 2003  
Product Name:        **542 HYDRAULIC SEALANT**

ISSUED by HENKAUST

**Classified as hazardous**

---

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

---

### Product Name

542 HYDRAULIC SEALANT

### Product Use

Lock and seal threaded hydraulic fittings.

### Company Name

HENKEL AUSTRALIA PTY LTD (ABN 82 001 302 996)

### Address

1 Clyde Street Silverwater  
NSW 2229 Australia

### Emergency Tel.

See CONTACT POINT

### Telephone/Telex Number

Tel: 1300 885 556    Fax: (02) 9525 5643

<b>Other Names</b>	<b><u>Name</u></b>	<b><u>Mancode</u></b>
	LOCTITE 542 HYDRAULIC SEALANT	
	542 HYDRAULIC SEALANT (10 ml)	25344
	542 HYDRAULIC SEALANT (250 ml)	54241
	542 HYDRAULIC SEALANT (50 ml)	54266
	542	

### Other Information

IMPORTANT NOTICE: This Material Safety Data Sheet (MSDS) is issued by Henkel Australia Pty Ltd in accordance with National Occupational Health and Safety Commission (NOHSC) guidelines. The information contained herein must not be altered, deleted or added to. Henkel Australia will issue new MSDSs when there is a change in product specifications and/or NOHSC guidelines/regulations. Henkel Australia has no objection to its MSDS being copied if: (a) the copy is made for safety related purposes; and (b) no alterations or amendments are made to the text or format of the MSDS. Henkel Australia does not guarantee the

accuracy of any MSDS for our products which: (a) is not prepared by Henkel Australia; (b) is not authorised by Henkel Australia; (c) is not in the format originally supplied by Henkel Australia; or (d) has otherwise been amended or altered by a third party. Copyright [c] Henkel Australia Pty Ltd.

---

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

---

### Chemical Characterization

Liquid

<b>Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>
	POLYETHYLENE GLYCOL DIMETHACRYLATE	5852-47-5	60-100 %
	POLYGLYCOL DIOCTANOATE	18268-70-7	10-30 %
	POLYSTYRENE	9003-53-6	5-10 %
	ORGANIC PEROXIDE	80-15-9	3-5 %
	SACCHARIN	81-07-2	1-5 %
	Silica, Amorphous, Fumed, Crystalline-Free	112945-52-5	0.1-1 %
	DIETHYL TOLUIDINE	613-48-9	0-0.9 %
	DIMETHYL ORTHO TOLUIDINE	609-72-3	0-0.3 %

---

## 3. HAZARDS IDENTIFICATION

---

Harmful by inhalation.  
Irritating to respiratory system and skin.  
Risk of serious damage to eyes.

---

## 4. FIRST AID MEASURES

---

### Inhalation

Remove the source of contamination or move the victim to fresh air. Ensure airways are clear and have qualified person give oxygen through a face mask if breathing is difficult. Apply artificial respiration if not breathing. Seek medical attention.

Product Name : 542 HYDRAULIC SEALANT

**Ingestion**

DO NOT induce vomiting. Immediately wash mouth out with water. If symptoms develop, seek medical attention.

**Skin**

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

**Eye**

If in eyes wash out immediately with water. If symptoms persist seek medical attention.

**First Aid****Facilities**

Eye wash and normal washroom facilities.

**Advice to Doctor**

Treat symptomatically.

Contact HENKEL AUSTRALIA PTY. LTD.

---

**5. FIRE FIGHTING MEASURES**

---

**Extinguishing****Media**

Use dry agent, foam or water mist. Use water spray to keep containers cool.

**Specific Methods**

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

**Specific Hazards**

Combustible liquid. Under fire conditions this product may emit toxic and/or irritating fumes.

**Hazardous****Combustion****Products**

Carbon monoxide and carbon dioxide.

**Decomposition****Temp.**

Not available

---

**6. ACCIDENTAL RELEASE MEASURES**

---

**Spills & Disposal**

Remove all sources of ignition. Increase ventilation. Wear appropriate breathing apparatus and full protective clothing to minimise skin and eye exposure. Place inert, non-combustible absorbent such as vermiculite, sand or dirt onto material. Collect the material and place into a suitable labelled container for subsequent disposal. If large quantities of this material enter the waterways

contact the Environmental Protection Authority, or your local Waste Management Authority.

## 7. HANDLING AND STORAGE

### Handling

HENKEL AUSTRALIA produce a complete range of manual, semi-automatic and automatic applicators for production requirements. Applicators help to speed production, eliminate waste and simplify handling. An applicator should always be used where the process involves workers continually handling sharp threaded, serrated or rough cast materials which affect the sensitive areas of the hands.

### Storage

Store in a cool, dry, well ventilated area out of direct sunlight. Store away from sources of ignition. This product should be stored away from foodstuffs and strong oxidising agents. Store in original containers or approved applicators between +5°C and +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. For information on the design of the store-room reference should be made to Australian Standard AS1940, The storage and handling of flammable and combustible liquids. Reference should also be made to any relevant Commonwealth, State or Territory regulations.

## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Limits	Name	mg/m <sup>3</sup> (STEL)	ppm (STEL)	mg/m <sup>3</sup> (TWA)	ppm (TWA)	TWA	Footnote
	Silica, Amorphous, Fumed, Crystalline-Free			10			

### Other Exposure Information

No value assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC). However, Exposure Standards for Silica is listed above.

### 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/New Zealand Standards AS/NZS 1715, Selection, Use and maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices.

Product Name : 542 HYDRAULIC SEALANT

**Eye Protection**

Safety glasses or goggles are recommended.

**Hand Protection**

Polyethylene gloves are recommended.

**Body Protection**

Suitable protective clothing should be worn. When large quantities are handled the use of plastic aprons and rubber boots is recommended.

**Eng. Controls**

Use with good general ventilation. If mists or vapours are produced local exhaust ventilation should be used.

**Hygiene Measures**

Ensure a high level of personal hygiene is maintained when using this product. Always wash hands before eating, drinking, smoking or using the toilet.

---

**9. PHYSICAL AND CHEMICAL PROPERTIES**

---

**Appearance**

Anaerobic liquid, thixotropic, colour brown, mild odour.

**Decomposition****Temperature**

Not available

**Melting Point**

Not available

**Boiling Point**

Not available

**Specific Gravity**

(H<sub>2</sub>O=1)

1.08 @ 20°C (approx)

**pH Value**

3-6

**Vapour Pressure**

<0.1mmHg @ 25°C

**Vapour Density**

(Air=1)

Not available

**Volatile Component**

Not available

**Flash Point**

>100°C (COC)

**Flammability**

Classified as a Class C1 (COMBUSTIBLE LIQUID) for the purposes of storage and handling, in accordance with the requirements of AS1940. This product should be

stored and used in a well ventilated area away from naked flames, sparks and other sources of ignition.

**Ignition****Temperature**

Not available

**Flammable Limits****LEL**

Not available

**Flammable Limits****UEL**

Not available

**Molecular Weight**

Not available

---

**10. STABILITY AND REACTIVITY**

---

**Stability**

Stable under normal conditions. Destabilised and solidified by reducing agents.

**Hazardous****Polymerization**

Will not occur.

**Materials to Avoid**

Strong oxidising and reducing agents.

---

**11. TOXICOLOGICAL INFORMATION**

---

**Toxicology****Information**

Toxicity: This product is not toxic and is not a common sensitiser (Guinea Pig Maximisation Test). However, caution should be exercised when fingers become damaged by swarf, macerated or cut by sharp or serrated threaded components. An allergic reaction has been known to occur with these types of products when the skin is in such an abused condition. Never spread these products with the finger tips across sharp threaded components. Draize evaluation indicates these materials would be mild eye irritants. Aromatic amine contents in all cases are controlled below 1%. (These products have been judged to be non toxic materials according to classification laws in Switzerland).

**Inhalation**

Harmful by inhalation. Inhalation of product vapours will cause irritation of the nose, throat and respiratory system.

**Ingestion**

No adverse effects expected however large amounts may cause nausea and vomiting.

**Skin**

Will cause redness, itching and irritation.

**Eye**

Risk of serious damage to eyes. Eye contact will cause stinging, blurring, tearing, severe pain and possible permanent corneal damage.

**Chronic Effects**

Prolonged or repeated skin contact may cause irritating leading to dermatitis.

---

**12. ECOLOGICAL INFORMATION**

---

**Environ.****Protection**

Prevent this material entering waterways, drains and sewers.

---

**13. DISPOSAL CONSIDERATIONS**

---

**Waste Disposal**

Dispose of according to relevant government regulations.

---

**14. TRANSPORT INFORMATION**

---

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

**Hazchem Code**

None Allocated

**Packing Group**

None Allocated

---

**15. REGULATORY INFORMATION**

---

**Risk Phrase**

R20 Harmful by inhalation.

R37/38 Irritating to respiratory system and skin.

R41 Risk of serious damage to eyes.

**Safety Phrase**

Product Name : 542 HYDRAULIC SEALANT

S23 Do not breathe gas/fumes/vapour/spray

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**

Harmful, Irritant

---

**16. OTHER INFORMATION**

---

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

For emergency response: Gerard Buys - 0411 669 002  
Technical Services Manager

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