



# Safety Data Sheet

Issue date: Jan/2009

## 1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

**Product Name:** LOCTITE HB 514 PURBOND

**Product Type and Use:** Adhesive

**Supplier:**

Henkel New Zealand Limited, 106 Springs Road, East Tamaki, Auckland, New Zealand. Phone 09 272 6710

**Emergency Contact:** 0800 CHEMCALL  
0800 243 622  
Hazardous Substance EMERGENCY  
24 hour – 365 day service

## 2. HAZARDS IDENTIFICATION

**Hazard Classification:**

Xn Harmful

**HSNO Approval Number:** HSR002644

**HSNO Classification:**

6.1D	Acute Toxicity
6.3A	Skin Irritancy
6.4A	Eye irritancy
6.5A	Sensitisation by inhalation
6.5B	Sensitisation by skin contact

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Characterization:**

Polyurethane prepolymer with isocyanate groups

Ingredients	Name	CAS	Proportion
	Diphenylmethane-diisocyanate, Isomers and homologues		>50 %

## 4. FIRST AID MEASURES

**Contact with skin:**

Wash with plenty of water and soap. Remove contaminated clothing. Seek medical assistance if symptoms persist.

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#### **Contact with eyes:**

Wash immediately with copious amounts of water holding eye lids open. Seek medical assistance if symptoms persist.

#### **Ingestion:**

Do NOT induce vomiting. Contact a Poisons Information Centre (Phone New Zealand 0800 243 622) or a doctor at once.

#### **Inhalation:**

Ventilate the premises. The patient is to be removed immediately from the contaminated premises and made to rest in a well ventilated area. Seek medical assistance if symptoms persist.

#### **Advice to Doctor:**

Treat symptomatically.

## **5. FIRE-FIGHTING MEASURES**

#### **Suitable Extinguishing Media:**

Water spray or fog, foam, carbon dioxide or dry chemical.

#### **Specific Methods:**

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

#### **Specific Hazards:**

Product will support combustion and burn in a general fire. Under fire conditions, it can produce oxides of carbon, smoke and oxidative products of polymeric compounds.

#### **Precautions in Connection with Fires:**

Water spray may be used to keep fire exposed containers cool.

## **6. ACCIDENTAL RELEASE MEASURES**

#### **Measures for personal safety:**

Wear appropriate protective clothing.

#### **Environmental measures:**

Shovel up residues and place in bins for disposal.  
Dispose of in accordance with local and government

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### **7. HANDLING AND STORAGE**

#### **Handling precautions:**

Avoid contact and inhalation. See section 8 below.  
Do not eat or drink while working.  
Ensure work rooms are well ventilated

#### **Storage conditions:**

Store in a cool area to prolong storage life. Store away from incompatible materials.

### **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

#### **National Exposure Standards:**

#### **Engineering Controls:**

Ensure sufficient ventilation to maintain airborne concentrations below exposure limits. General ventilation is recommended during normal use. Local ventilation may be required during certain operations to prevent inhalation of vapours.

#### **Components with specific control parameters:**

The product contains 4,4-Methylenediphenyldiisocyanate (MDI) Cas No: 101-68-8. The relevant New Zealand exposure limit for work place TWA mg/m<sup>3</sup> is 0.02 (STEL 0.07 mg/m<sup>3</sup>).

#### **Respiratory Protection:**

Where concentrations in air may exceed the recommended exposure limits, or work practice or other means of exposure reduction are not adequate, approved respirator may be necessary to prevent overexposure by inhalation. Final choice of appropriate breathing protection is dependant upon actual airborne concentrations and the type of breathing protection required, will vary according individual circumstances. Expert advice may be required to make this decision. References should be made to Australia Standard 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 or goggles should be worn as described in Australia/New Zealand Standard AS/NZS 1337 – Eye Protectors in Industrial Applications

#### **Hand Protection:**

Heat resistance gloves should be worn.

#### **Footwear:**

Safety boots.

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#### **Body Protection:**

Suitable protective clothing should be worn eg cotton overalls buttoned at neck and wrist. When large quantities are handled the use of plastic aprons and rubber boots is recommended.

#### **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 and colour:** Solid, light brown

**Odour:** No odour

**Softening Point:**

**Boiling Point:**

**Vapour pressure:**

**Density:** N/A (water = 1)

**Flash Point:** > 200°C

### **10. STABILITY AND REACTIVITY**

#### **Chemical Stability:**

Stable under normal conditions.

#### **Incompatible Materials:**

Strong acids and oxidizing agents.

#### **Hazardous decomposition products:**

Carbon monoxide, carbon dioxide, oxides of nitrogen, fumes and smoke.

### **11. TOXICOLOGICAL INFORMATION**

#### **Toxicology Information:**

May cause sensitization by inhalation.

May cause sensitization by skin contact.

### **12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity:**

#### **Persistence / Degradability:**

#### **Mobility:**

No data available for this specific material.

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### **Bioaccumulative Potential:**

No data available for this specific material.

### **Environment Protection:**

Adopt sound working practices, so that the product is not released into the environment.

## **13. DISPOSAL CONSIDERATIONS**

### **Material:**

- a). Treat the material by using a method that changes the characteristics or composition of the substance so that the substance is no longer a hazardous substance; or
- b). By discharging the substance into the environment in a manner that ensures that the concentration of the substance in an environmental medium, after reasonable mixing, does not exceed any environmental exposure limit set for the substance in accordance with the Hazardous Substances (class 6, 8, and 9 controls) Regulations 2001; or
- c). by exporting the substance from New Zealand as waste.

Note treating the substance includes;

- a). includes depositing the substance in a landfill, incinerator, or a sewage facility if the landfill, incinerator or sewage facility will treat the substance by changing the characteristics or composition of the substance so that the substance is no longer a hazardous substance; but
- b) does not include dilution of the substance with any other substance before discharge into the environment.

Observe local and government regulations.

### **Neutralizing Solution:**

Shovel up residues in sand or vermiculite and place in open top bins (DO NOT MAKE PRESURE TIGHT) in a well ventilated area. Treat with mixture of 90% water, 5% detergent and 5% concentrate ammonia. Add about 10 parts of the neutralizing solution per part of isocyanate with mixing. Allow to stand for 48 to 72 hours letting any evolved carbon dioxide escape.

### **Packaging:**

- (1) The conditions of this clause apply to a package that –

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- (a) contained a substance; and
  - (b) was in direct contact with the substance; and
  - (c) is no longer to be used to contain the substance and is intended for disposal.
- (2) A package must –
- (a) Be rendered incapable of containing any substance; and
  - (b) Be disposed of in a manner that is consistent with that of the substance it contained, taking into account the nature and type of the packaging
- (3) Notwithstanding subclause (2), a package may be reused or recycled if –
- (a) It has been treated to remove any residual contents of the substance; or
  - (b) The residual contents of the package have been rendered non-hazardous.

Treat empty containers with the neutralising solution. Allow 48 hours to react in an unsealed container in a well ventilated area.

Shovel up residues in sand or vermiculite and place in open top bins (DO NOT MAKE PRESURE TIGHT) in a well ventilated area. Dispose of in accordance with local and government .

#### **14. TRANSPORT INFORMATION**

##### **Transport Information:**

Not classified as a Dangerous Good according to the Australian Code for Transport of Dangerous Good by road and Rail or NZS 5433:1999 Transport of Dangerous Goods on Land.

##### **Storage and Transport:**

Not classified as dangerous goods.

#### **15. REGULATORY INFORMATION**

##### **Regulatory Information:**

Symbols of Danger:

Xn Harmful

Ingredients: Diphenylmethane-di-isocyanate, isomers

Additional labeling:

Contains isocyanates. Follow the manufacturers instructions.

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**16. OTHER INFORMATION**

**Contact Person / Point :**

For further information contact: Henkel New Zealand Industrial Adhesives  
Division. Auckland 09 272 6710

**Important Note:**

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.