# Material Safety Data Sheet

Infosafe No. 1LO0X Issue Date: March 2005 ISSUED by HENKAUST

Product Name: **LOCTITE 407 PRISM INSTANT ADHESIVE**

**Classified as hazardous according to criteria of NOHSC**

## COMPANY DETAILS

**Company Name**

HENKEL AUSTRALIA PTY LTD (ABN 82 001 302 996)

**Address**

1 Clyde Street Silverwater
NSW 2229 Australia

**Emergency Tel.**

See CONTACT POINT

**Tel/Fax**

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

**Other Information**

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## IDENTIFICATION

**Product Code**

40744

**Product Name**

LOCTITE 407 PRISM INSTANT ADHESIVE

**Proper Shipping Name**

None Allocated

**Other Names** **Name** **Mancode**

**UN Number**

None Allocated

**DG Class**

None Allocated

**Packing Group**

None Allocated

**Hazchem Code**

None Allocated

**Poisons Schedule**

Not Scheduled

**Product Use**

Adhesive for bonding wood, ceramics, metals, some plastics and some rubbers.

## Physical Data

**Appearance**

Colourless, clear liquid

**Melting Point**

Not available

**Boiling Point**

>149°C

**Vapour Pressure**

0.5mm Hg @ 25 °C

**Specific Gravity**

1.1 @ 20°C

**Flash Point**

80 to 93°C

**Flamm. Limit LEL**

Not available

**Flamm. Limit UEL**

Not available

**Solubility in Water**

Immiscible (Polymerises on contact)

## Other Properties

**Autoignition Temp.**

485°C

**pH Value**

Not applicable

**Odour**

Sharp, irritating odour

**Stability**

Stable under normal conditions of storage and handling.

**Haz.**
**Polymerization**

May occur on contact with water, alcohols, amines and bases. Polymerisation is exothermic.

**Materials to Avoid**

Avoid contact with water, alcohols, amines and bases.

## Ingredients

| Ingredients | Name | CAS | Proportion |
|---|---|---|---|
| | Ethyl 2-cyanoacrylate | 7085-85-0 | 80-100 % |
| | Other ingredients determined not be hazardous | | Balance |

## HEALTH HAZARD INFORMATION

### Health Effects

**Acute - Swallowed**

Ingestion of this product may irritate the gastric tract causing nausea and vomiting, however it is almost impossible to swallow as it polymerises in the mouth.

**Acute - Eye**

Irritating to eyes. On eye contact this product will cause tearing, stinging, blurred vision, and redness. Cyanoacrylates give off heat on solidification which could result in thermal burns and possible permanent corneal damage.

**Acute - Skin**

Irritating to skin resulting in redness and itching.
Cyanoacrylates give off heat on solidification which could result in thermal burns.

**Acute - Inhaled**

Irritating to respiratory system. Inhalation of product vapours will cause irritation of the nose, throat and respiratory system.

**Hazards**
**Identification**

Classified as hazardous according to the criteria of NOHSC.
Not classified as a dangerous good according to the ADG Code.

Risk phrases:
R36/37/38 Irritating to eyes, respiratory system and skin.

Safety phrases:
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.
S37/39 Wear suitable gloves and eye/face protection.
S51 Use only in well ventilated areas.

**Chronic**

Prolonged or repeated exposure through inhalation of vapours/fumes may lead to non-allergic asthma.

## First Aid

**Swallowed**

DO NOT INDUCE VOMITING. It is almost impossible to swallow cyanoacrylate as the adhesive solidifies and adheres to the mouth. Saliva will lift this adhesive within one or two days.
ENSURE THAT AIR PASSAGES ARE KEPT CLEAR. Keep patient calm to avoid possibility of vomiting, as this may block air passage and cause suffocation.

**Eye**

If contact with the eye(s) occurs, wash with copious amounts of water holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. Do not try to open bonded eye/eyelids. Release the eyelashes by swabbing with warm water or covering with a warm wet pad. The eye should then open of its own accord within 1-4 days. Cyanoacrylate will attach itself to the eye protein but will usually dissociate from it over periods covering several hours. This will cause periods of weeping over several hours until clearance is achieved. During the period of contamination, double vision may be experienced together with tearing, but full recovery is rapid and normally within one to three days, even with gross contamination. Seek medical attention.

**Skin**

Cyanoacrylate adhesives bond skin in seconds under slight pressure. Bonded skin should be PEELED apart with the aid of warm soapy water, but never PULLED directly apart. Peel or roll the surfaces apart with the aid of a blunt edge ie. a spoon handle or spatula. In cases of large areas of skin being bonded, pre-soaking in a warm soapy water will be helpful. In the rare case where the cyanoacrylate generated enough heat during curing to cause a burn, treat as for burns. Seek medical attention.

**Inhaled**

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. If symptoms develop seek medical attention.

**First Aid Facilities**

Eye wash and normal washroom facilities.

**Advice to Doctor**

**Advice to Doctor**

Treat symptomatically.

**Other Health Hazard Information**

**Medical Conditions Generally Aggravated by Exposure**

Inhalation of product vapours may aggrevate respiratory disorders.

**PRECAUTIONS FOR USE**

**Exposure Limits**

No exposure standards have been established for this material by the National Occupational Health And Safety Commission (NOHSC).

**Eng. Controls**

Provide sufficient ventilation to keep airborne levels below the exposure limit.
Industrial Applications: Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a local exhaust ventilation system is required. Refer to AS1940 - The storage and handling of flammable and combustible liquids and AS2430 - Explosive gas atmospheres for further information concerning ventilation requirements.

**Personal Protection**

**Respirator Type (AS 1716)**

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.

**Glove Type**

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.

**Clothing**

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.

## Flammability

**Fire Hazards**

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.

## SAFE HANDLING INFORMATION

## Storage and Transport

**Storage**
**Precautions**

Store in a cool, dry well-ventilated area away from heat, sources of ignition, oxidising agents, foodstuffs, and clothing and out of direct sunlight. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Do NOT pressurise, cut, heat or weld containers as they may contain hazardous residues. For information on the design of the storeroom, reference may be made to Australian Standard AS1940 - The storage and handling of flammable and combustible liquids. Reference should also be made to all State and Federal regulations.

**Transport**

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

**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.

**Proper Shipping Name**

None Allocated

## Spills and Disposal

**Disposal Considerations**

Add product to 10 times its volume of water to solidify. Dispose of waste according to federal, EPA and state regulations. Labels should not be removed from containers until they have been cleaned. Do not cut, puncture or weld on or near containers. Empty containers may contain hazardous residues. Contaminated containers must not be treated as household waste. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate. Do not incinerate closed containers. Advise combustible nature.

**Accidental Release Measures**

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. Alternatively contain the spillage and treat cautiously with water to solidify. Use clean non-sparking tools to collect the material and place into a suitable labelled container. Dispose of waste according to federal, Environmental Protection Authority and state regulations. If large quantities of this material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

## Fire/Explosion Hazard

**Fire/Explos. Hazard**

Combustible liquid. This product will burn if exposed to fire.

**Hazardous Combustion Products**

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

**Hazardous Decomposition or Byproducts**

Thermal decomposition may result in the release of toxic and/or irritating fumes including carbon monoxide, carbon dioxide and oxides of nitrogen.

**Fire Fighting Precautions**

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

**Extinguishing Media**

Water spray, dry extinguishing media, foam, carbon dioxide. Do not use water in a jet. Keep containers cool with water spray.

**Hazardous Reaction**

Will react with water, alcohols, amines and bases.

**Hazchem Code**

None Allocated

**Conditions to Avoid**

Heat, direct sunlight, open flames or other sources of ignition.

## OTHER INFORMATION

**Toxicology**

LD50 (oral, rat): 5000 mg/kg
LD50 (dermal, rabbit): 2000 mg/kg

**Environ. Protection**

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

**Risk Statement**

R36/37/38 Irritating to eyes, respiratory system and skin.

**Safety Statement**

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.
S37/39 Wear suitable gloves and eye/face protection.
S51 Use only in well ventilated areas.

**Hazard Category**

Irritant

**Mobility**

No data is available for this material.

**Persistence / Degradability**

Cured product is biodegradable.

**Ecotoxicity**

No data is available for this material.

**SDS History**

MSDS Review: March 2005
Supersedes: April 2000

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**CONTACT POINT**

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**Contact**

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

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