



## MATERIALS SAFETY DATA SHEET

### Liquid Bond Construction Adhesive

Version 4

Last update 13.3.2012

#### Company Details

Company Name	Admil Adhesives Pty Ltd (ACN 092 730 562)
Address	8 Treforest Drive, Clayton VIC 3168.
Telephone	(03) 9558-6302
Emergency Telephone	a.h. 0411 568 915 (Adrian Brocken)
Fax Number	(03) 9558-6305

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#### **STATEMENT OF HAZARDOUS NATURE:**

Classified as hazardous according to criteria of Work Safe Australia.

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#### **2. Identification**

<b>MANUFACTURERS PRODUCT CODE:</b>	- Liquid Bond 7A
OTHER NAMES:	- Solvent based adhesive
CORRECT SHIPPING NAME:-	Adhesive containing flammable liquid (i) immiscible with water
U.N. NO.;	1133
DANGEROUS GOODS CLASS :-	3
SUBSIDIARY RISK :-	None Allocated
HAZCHEM CODE :-	3 (Y) E
POISON SCHEDULE :-	S5
A.I.C.S STATUS :-	All components of this finished product are listed on the A.I.C.S.
RISK PHRASES :-	R11 Highly Flammable R20 Harmful by Inhalation R21 Harmful by contact with skin R22 Harmful if swallowed R48 Danger of serious damage to health by prolonged exposure
SAFETY PHRASES :-	S9 Keep container in well ventilated place S16 Keep away from source of ignition No Smoking S24 Avoid contact with skin S25 Avoid contact with eyes S29 Do not empty into drains S33 Take precautionary measures against static discharge S51 Use only in well ventilated areas
MAJOR RECOMMENDED USES :-	Specialised applications including construction adhesive
RECOMMENDED METHOD OF APPLICATION:-	Caulking gun or scraper

#### **2.12 Physical Description/Properties**

APPEARANCE:-	Buff Paste
FLASH POINT:-	< -20 deg Celsius
BOILING POINT 760 mm Hg :-	78 – 101 deg Celsius



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FLAMMABILITY LIMITS: -

UPPER EXPLOSIVE LIMIT: 7.0 %  
LOWER EXPLOSIVE LIMIT: 1.0 %

VAPOUR PRESSURE ~ 760 mm Hg  
@25 deg C:-

Not Known

SOLUBILITY IN WATER :-

Insoluble

SPECIFIC GRAVITY:-

Approx 1.10 kg / litre

EVAPORATION RATE :-

Not Known

#### 2.13 Other Properties

The above information is not intended for use in preparing product specifications.

#### 2.14 Ingredients:

Chemical Name	CAS	Number Proportion %
n-hexane & hexane isomers	110-54-3	< 10 %
Light aliphatic petroleum solvent	64742-49-0	10 - 30%
Non hazardous materials		To 100%

No other Hazardous materials are present in this product at concentrations above the cut off levels as Noted in the List of Designated Hazardous Substances, NOHSC:10005 (1994), or as defined in the Approved Criteria For Classifying Hazardous Substances, -NOHSC:1008 (1994).

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### 3. Health Hazard Information

#### 3.1 Health Effects

##### SWALLOWED:

Moderately toxic. Tends to break up into a foam if the patient vomits.  
Upon aspiration into the lungs, chemical pneumonitis may develop.

##### EYE:

This material is expected to be mildly irritating to the eye.

##### SKIN:

Mildly irritating to the skin. Frequent or prolonged contact can cause skin complaints such as dermatitis.

##### INHALED:

Irritating to the respiratory system. Prolonged exposure to vapours may cause headaches, impairment of judgement, Central Nervous System depression which in extreme cases can lead to unconsciousness or death.

##### CHRONIC: -

This product contains a very small amount of n-hexane. Repeated inhalation or skin exposure to n-hexane has been noted to cause peripheral neuropathy in exposed individuals. Both sensory and motor nerve damage has been documented with long term exposures of greater than 500 ppm.

Cessation of exposure is not immediately followed by improvement and symptoms may even progress for 2 - 3 months. Final recovery may take more than one year depending on the severity of the intoxication and may not always be complete.



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Concurrent exposure to n-hexane and methyl ethyl ketone, MEK, will accelerate the appearance of damage due to n-hexane, although MEK will not itself cause the effect.

#### First Aid

##### SWALLOWED:

DO NOT induce vomiting. Give 1-2 glasses of water and obtain medical assistance. Should the patient vomit, maintain a clear airway until medical assistance is obtained.

##### EYE:

Flush with water for fifteen minutes. It is advisable to obtain Medical Advice concerning any eye injury.

##### SKIN:

Hose down *with* water before removing clothing due to possibility of static discharge igniting vapour. Wash affected areas with soap and water thoroughly. Allow clothing to thoroughly air dry then launder before re-use.

##### INHALED:

Carefully remove persons to fresh air, avoid becoming affected yourself. If patient is severely affected obtain medical assistance. If the person stops breathing apply artificial respiration and other first aid techniques as required until medical assistance is obtained.

#### First aid facilities :

ADVICE TO DOCTOR: Oral:- Gastrointestinal irritation, nausea, vomiting and cramping. CNS depression ranging from mild headaches to anesthesia and coma. Pulmonary irritation secondary to exhalation of solvent. Lavage with a cuffed tube if a large quantity is ingested. Aspiration is the main danger. Enforce bed rest & observe carefully. Observe for 24 hours for chemical pneumonitis. Longer term medical surveillance may be necessary. Maintain airway & vital functions.

Inhalation:- CNS depression characterised by headache and dizziness which in extreme cases can lead to unconsciousness and death.

No Other Information Noted in This Section

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#### 4. Precautions for Use

##### 4.1 Exposure Standards:

This material contains the following materials for which exposure limits have been set by WORKSAFE AUSTRALIA, as listed in the "EXPOSURE STANDARDS FOR ATMOSPHERIC CONTAMINANTS IN THE OCCUPATIONAL ENVIRONMENT 2nd EDITION OCTOBER 1991" is as follows:-

n-hexane	110-54-3	TWA 50 ppm	STEL NOT NOTED
Other isomers of hexane		TWA 500 ppm	STEL 1,000 ppm

VENTILATION;- Provide explosion proof ventilation sufficient to maintain exposure levels below the listed exposure limits.

##### 4.2 Engineering Controls



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Local Exhaust: None should be needed.  
General Ventilation: Recommended.

#### 4.3 Personal Protection

RESPIRATORY TYPE (AS1716): ORGANIC VAPOUR MASK if exposed to mist or vapours which result in exposures up to 10 times the exposure limit. Above this level air supplied breathing apparatus must be used.

GLOVE TYPE: Impervious gloves should be worn, to prevent skin contact. Consult Industrial glove supplier for a suitable glove.

EYE PROTECTION: Goggles or face shield to avoid splashes.

CLOTHING: Sufficient to avoid skin contact.

Note: These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

#### 4.4 Flammability

**FIRE HAZARD:** **Highly flammable.**

SOURCES OF IGNITION ADVICE: Isolate from of source. of heat, naked flames and sparks, including static discharges. Prevent build up of flammable vapours. Vapour and air mixtures may ignite explosively.

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## 5. Safe Handling Information

### 5.1 Advice on Safe Handling

STORAGE AND TRANSPORT: STORE ON A WOODEN PALLET.  
STORE BETWEEN: 5° TO 30°C.  
Should recommended max. storage temperature be exceeded, cool sealed container under running water for 30 minutes before use. Excessively heated sealed drums may rupture EXPLOSIVELY.  
Keep away from heat, naked flames or sparks including static discharges.  
Use appropriate earthing techniques when transferring liquid from one container to another.  
Store away from oxidising agents. Keep containers closed at all times when not in use.

#### Handling Precautions:

DANGEROUS GOODS CLASS/SUBSIDIARY RISK: Class 3 Flammable Liquid  
Packaging Group II

Use with adequate ventilation.  
Avoid skin and eye contact.  
Do not take internally.  
Exercise good industrial hygiene practice.  
Wash after handling, especially before eating, drinking or smoking.

Storage Conditions: Store between 5 deg C and 30 deg C.  
Do not allow adhesive to freeze.

Unsuitable Packaging Materials: None established.

### 5.2 Spills & Disposal



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Wear rubber gloves and goggles in addition to respiratory protection for protection from splashes and vapours.

Extinguish all ignition sources, Dam & recover. Prevent entry into drainage systems, rivers and waterways etc. Collect with absorbent material such as sand, earth or appropriate commercial absorbent. Shovel up with non-sparking tools then PLACE INTO SUITABLE CONTAINERS FOR DISPOSAL AS PER LOCAL, STATE /FEDERAL REGULATIONS.

Empty containers may contain product residue. Follow safety procedures until container has been cleaned.

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#### 6 Fire Explosion Hazard

Product is FLAMMABLE and does represent a FIRE and EXPLOSION HAZARD. Excessively heated sealed drums may rupture EXPLOSIVELY.

#### DANGEROUS DECOMPOSITION PRODUCTS

Carbon dioxide, carbon monoxide and other unidentified thermal decomposition products.

#### FIRE FIGHTING RECOMMENDATIONS

USE Foam, CO2 OR DRY Chemical.

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#### 7. Other Information

##### TOXICOLOGICAL DATA

n-hexane: -

Oral rat LD50 28, 710 mg /kg

No other data noted

##### ECOLOGICAL DATA

None noted for this product.

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#### **Notice**

The details contained herein are based on our present state of knowledge and experience and are to characterize our product with regard to any possible safety requirement. We do however pass them on without any warranty or property assurances.

The data and advice given apply only when the product is used for the stated application or applications. The product is not sold as suitable for any other application. Use of the product for applications other than as stated in this sheet may give rise to risks not mentioned in this sheet. You should not use the product other than for the stated application or applications without seeking advice from us.

If you have purchased the product for supply to a third party for use at work, it is your duty to take all necessary steps to secure that any person handling or using the products is provided with the information in this sheet.

If you are an employer, it is your duty to tell your employees and others who may be affected of any hazards described in this sheet and of any precautions which should be taken.