Chemwatch Material Safety Data Sheet (REVIEW)

Version No: 2.0

Chemwatch 4932-19

Hazard Alert Code: MODERATE

Issue Date: 30-Jun-2007

NC317TCP

CD 2011/1

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME

Australian Adhesives Super Glue

SYNONYMS

C6-H7-N-O2, "super glue", superglue, supaglue, "ethyl cyanoacrylate adhesive"

PRODUCT NUMBERS

50512

PRODUCT USE

Quick setting general purpose cyanoacrylate adhesive.

SUPPLIER

Company: Australian Adhesives (Brilliant Signs) Address: PO Box 625 Cheltenham VIC, 3193 Australia Telephone: +61 3 9555 1522 Fax: +61 3 9555 4048 Email: matt@brilliantsigns.com.au

Section 2 - HAZARDS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE



Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

NAME

CAS RN %

Chemwatch Material Safety Data Sheet (REVIEW)

Issue Date: 30-Jun-2007

NC317TCP

ethyl cyanoacrylate

Version No: 2.0

Chemwatch 4932-19

Hazard Alert Code: MODERATE

CD 2011/1

7085-85-0 >60

Section 4 - FIRST AID MEASURES

SWALLOWED

- For advice, contact a Poisons Information Centre or a doctor at once.
- Urgent hospital treatment is likely to be needed.
- If swallowed do NOT induce vomiting.
- If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
- Observe the patient carefully.
- Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.
- Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.
- Transport to hospital or doctor without delay.
- For material bonded in the mouth seek medical/dental attention.
- If lips are accidentally stuck together apply lots of warm water and encourage maximum wetting and pressure from saliva inside the mouth.
- Peal or roll lips apart.
- Do NOT attempt to pull the lips with direct opposing action.
- It is almost impossible to swallow cyanoacrylates. The adhesive solidifies and adheres in the mouth. Saliva will lip the adhesion in one or two days.

EYE

- Eyelid Adhesion
- Wash thoroughly with water and apply moist pad; maintain in position.
- DO NOT force separation.
- Transport to hospital, or doctor without delay.
- Minor eye contamination should be treated by copious washing with water or 1% sodium carbonate solution.
- The eye will generally open without further action, typically in one to two days. there should be no residual damage.
- Adhesive introduced
- Removal of contact lenses after eye injury should only be undertaken by skilled personnel.

Adhesive in the Eye:

- Adhesive will attach itself to eye proteins and will disassociate from these over intermittent periods, usually within several hours.
- This will result in weeping until clearance of the protein complex.
- It is important to understand that disassociation will normally occur within a matter of hours even with gross contamination.

SKIN

• Cyanoacrylate adhesives is a very fast setting and strong, they bond human tissues including skin in seconds. Experience shows that accidents involving cyanoacrylates are best handled by passive, non-surgical first aid. Skin Contact:

- Remove excessive adhesive.
- Soak in warm water the adhesive should loosen from the skin in several hours. Dried adhesive does not present a health hazard.

• Contact with clothes, fabric, rags or tissues may generate heat, and strong irritating odours; skin burns may also ensue. Skin Adhesion:

- IMMEDIATELY immerse affected areas in warm soapy water.
- DO NOT force bonded surfaces apart.
- Use a gentle rolling action to peel surfaces apart if possible. It may be necessary to use a blunt edge such as a spatula or spoon handle. Do NOT attempt to pull the surfaces apart with a direct opposing action.
- Remove any cured material with warm, soapy water.
- Seek medical attention without delay.
- A solvent such as acetone may be used (with care!) to separate bonded skin surfaces. NEVER use solvent near eyes, mouth, cuts, or abrasions.

INHALED

- •
- If fumes or combustion products are inhaled remove from contaminated area.
- Lay patient down. Keep warm and rested.
- Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.
- Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.
- Transport to hospital, or doctor.

NOTES TO PHYSICIAN

Treat symptomatically.

It should never be necessary to use surgical means to separate tissues which become accidentally bonded. The action of physiological fluids or warm soapy water will cause this adhesive to eventually fail.

CG3

Chemwatch Material Safety Data Sheet (REVIEW)

CD 2011/1

Issue Date: 30-Jun-2007

NC317TCP

Section 5 - FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

. Foam

• Dry chemical powder.

Carbon dioxide. **FIRE FIGHTING**

Alert Fire Brigade and tell them location and nature of hazard.

Wear breathing apparatus plus protective gloves.

• Prevent, by any means available, spillage from entering drains or water courses.

Cool fire exposed containers with water spray from a protected location.

DO NOT approach containers suspected to be hot.

If safe to do so, remove containers from path of fire.

FIRE/EXPLOSION HAZARD

Combustible liquid.

Moderate fire hazard when exposed to heat or flame.

On combustion, emits toxic fumes of: hydrogen cyanide, nitrogen oxides (NOx), carbon monoxide (CO) and carbon dioxide (CO2). **FIRE INCOMPATIBILITY**

• Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

HAZCHEM

None

Personal Protective Equipment

Gas tight chemical resistant suit. Limit exposure duration to 1 BA set 30 mins.

Section 6 - ACCIDENTAL RELEASE MEASURES

MINOR SPILLS Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Wear impervious gloves and safety glasses. Add water to cure (harden) the substance. Scrape up the cured (hardened) substance. Place in suitable containers for disposal. If cloth has been used to wipe up spills, immediately soak the cloth in water to produce polymerisation and prevent possibility of autoignition. MAJOR SPILLS Clear area of personnel Alert Fire Brigade and tell them location and nature of hazard. Control personal contact by using protective equipment. Prevent, by any means available, spillage from entering drains or water courses. Increase ventilation. Absorb or cover spill with sand, earth, inert material or vermiculite. Add water to cure (harden) the substance. Acetone may be used to soften the cured (hardened) substance before removal. Scrape up the cured (hardened) substance Collect residues and seal in labelled drums for disposal. Use a solvent to clean the area. If contamination of drains or waterways occurs, advise emergency services.

Personal Protective Equipment advice is contained in Section 8 of the MSDS.

Section 7 - HANDLING AND STORAGE

PROCEDURE FOR HANDLING

Use good occupational work practice. Observe manufacturer's storing and handling recommendations.

Avoid all personal contact, including inhalation.

Avoid generating and breathing vapour. Wear protective clothing when risk of exposure occurs.

Use in a well-ventilated area.

Avoid contact with incompatible materials.

- Avoid contact with moisture.
- DO NOT dilute or mix with water or other products.

• Handle and open container with care

Version No: 2.0

Chemwatch 4932-19

Hazard Alert Code: MODERATE

Chemwatch Material Safety Data Sheet (REVIEW)

Issue Date: 30-Jun-2007

NC317TCP

When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Wash hands with soap and water after handling.

SUITABLE CONTAINER

- Check that containers are clearly labelled .
- Packaging as recommended by manufacturer. .

STORAGE INCOMPATIBILITY

Avoid reaction with oxidising agents .

Avoid contact with, water, alcohols, selected amines, alkalies, peroxides and metal oxides.

STORAGE REQUIREMENTS

- •
- Store in original containers. Keep containers securely sealed. .
- .
- Store in a cool, dry area protected from environmental extremes.
- Store away from incompatible materials and foodstuff containers.
- Protect containers against physical damage and check regularly for leaks.
- Observe manufacturer's storing and handling recommendations •
- For major quantities:
- Consider storage in bunded areas ensure storage areas are isolated from sources of community water (including stormwater, ground water, lakes and streams}.
- Ensure that accidental discharge to air or water is the subject of a contingency disaster management plan; this may require consultation with local authorities.
- Store in original containers.
- Keep containers securely sealed
- Store in a cool, dry place.

Keep drv

- Store away from incompatible materials.
- Store at ambient temperatures
- Protect containers against physical damage.

Check regularly for spills and leaks

SAFE STORAGE WITH OTHER CLASSIFIED CHEMICALS



X: Must not be stored together

O: May be stored together with specific preventions +: May be stored together

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE CONTROLS

The following materials had no OELs on our records • ethyl cyanoacrylate: CAS:7085-85-0

MATERIAL DATA

AUSTRALIAN ADHESIVES SUPER GLUE: Not available ETHYL CYANOACRYLATE:

Sensory irritants are chemicals that produce temporary and undesirable side-effects on the eyes, nose or throat. Historically occupational exposure standards for these irritants have been based on observation of workers' responses to various airborne concentrations. Present day expectations require that nearly every individual should be protected against even minor sensory irritation and exposure standards are established using uncertainty factors or safety factors of 5 to 10 or more. On occasion animal no-observable-effect-levels (NOEL) are used to determine these limits where human results are unavailable. An additional approach, typically used by the TLV committee (USA) in determining respiratory standards for this group of chemicals, has been to assign ceiling values (TLV C) to rapidly acting irritants and to assign short-term exposure limits (TLV STELs) when the weight of evidence from irritation, bloaccumulation and other endpoints combine to warrant such a limit. In contrast the MAK Commission (Germany) uses a five-category system based on intensive odour, local irritation, and elimination half-life. However this system is being replaced to be consistent with the European Union (EU) Scientific Committee for Occupational Exposure Limits (SCOEL);

http://jr.chemwatch.net/chemgold3/msds.exe?mode=SAP&cwno=4932-19&msdsfor... 24/06/2011

Version No: 2.0

Hazard Alert Code: MODERATE

Chemwatch 4932-19

CD 2011/1

Chemwatch Material Safety Data Sheet (REVIEW)

Issue Date: 30-Jun-2007

NC317TCP

this is more closely allied to that of the USA.

OSHA (USA) concluded that exposure to sensory irritants can:

- cause inflammation
- · cause increased susceptibility to other irritants and infectious agents
- lead to permanent injury or dysfunction
- permit greater absorption of hazardous substances and
- acclimate the worker to the irritant warning properties of these substances thus increasing the risk of overexposure.
 Odour Threshold: 1-3 ppm

PERSONAL PROTECTION



EYE

Chemical goggles

DO NOT wear contact lenses.

Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lens or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59]

HANDS/FEET

- -
- Polyethylene gloves
- PVC gloves
- Safety footwear

OTHER

- Overalls.
- Impervious apron
- Barrier cream
- Eyewash unit.

Ensure there is ready access to a safety shower.

RESPIRATOR

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.
 Breathing Zone Level ppm
 Maximum Protection Factors
 Half face Paceirator
 Full Face Paceirator

(volume)	 Maximum Protection Factor	Half-face Respirator	Full-Face Respirator
1000	10	A-AUS P	-
1000	50	-	A-AUS P
5000	50	Airline *	-
5000	100	-	A-2 P
10000	100	-	A-3 P
	100+		Airline**

* - Continuous Flow ** - Continuous-flow or positive pressure demand.

The local concentration of material, quantity and conditions of use determine the type of personal protective equipment required. For further information consult site specific CHEMWATCH data (if available), or your Occupational Health and Safety Advisor.

ENGINEERING CONTROLS

• General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required in specific circumstances. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

Type of Contaminant:

solvent, vapours, degreasing etc., evaporating from tank (in still air).

Air Speed:

0.25-0.5 m/s (50-100 f/min)

aerosols, fumes from pouring operations, intermittent container

filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active 0.5-1 m/s (100-200 f/min.)

generation)

direct spray, spray painting in shallow booths, drum filling,

CG3

Hazard Alert Code: MODERATE

Version No: 2.0

CD 2011/1

Chemwatch 4932-19

Chemwatch 4932-19

Hazard Alert Code: MODERATE

CD 2011/1

Chemwatch Material Safety Data Sheet (REVIEW) Version No: 2.0 Issue Date: 30-Jun-2007 NC317TCP conveyer loading, crusher dusts, gas discharge (active 1-2.5 m/s (200-500 f/min.) generation into zone of rapid air motion) grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very 2.5-10 m/s (500-2000 f/min.) high rapid air motion). Within each range the appropriate value depends on: Lower end of the range Upper end of the range 1: Room air currents minimal or favourable to capture 1: Disturbing room air currents 2: Contaminants of low toxicity or of nuisance value only. 2: Contaminants of high toxicity 3: Intermittent, low production. 3: High production, heavy use 4: Large hood or large air mass in motion 4: Small hood-local control only

4. Since hour of any end of any end of the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 fmin) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used. ■ Full face respirator with supplied air.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Clear colourless liquid with a mild odour; solidifies instantly in contact with water.

PHYSICAL PROPERTIES

Liquid.

Does not mix with water.

Sinks in water.			
State	Liquid	Molecular Weight	124.98
Melting Range (℃)	Not available	Boiling Range (℃)	>190
Solubility in water (g/L)	Immiscible	Flash Point (℃)	<83
pH (1% solution)	Not applicable	Decomposition Temp (℃)	Not available
pH (as supplied)	Not applicable	Autoignition Temp (℃)	Not available
Vapour Pressure (kPa)	0.0010@ 20 C	Upper Explosive Limit (%)	Not available
Specific Gravity (water=1)	1.05	Lower Explosive Limit (%)	Not available
Relative Vapour Density (air=1)	3 (approx.)	Volatile Component (%vol)	0
Evaporation Rate	Not available		

Section 10 - CHEMICAL STABILITY

CONDITIONS CONTRIBUTING TO INSTABILITY

Presence of water.

Presence of incompatible materials

Storage in unsealed containers.

CG3

Version No: 2.0

Chemwatch Material Safety Data Sheet (REVIEW)

Issue Date: 30-Jun-2007

NC317TCP

Product is considered stable under normal handling conditions. Hazardous polymerisation will not occur.

For incompatible materials - refer to Section 7 - Handling and Storage.

Section 11 - TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

ACUTE HEALTH EFFECTS

SWALLOWED

• Uncured cyanoacrylates are difficult to swallow as saliva cures the surface of the adhesive with negligible bonding. The cured material is considered to be non-hazardous

Considered an unlikely route of entry in commercial/industrial environments.

EYE

The vapour/liquid is highly discomforting to the eyes.

Exposure to cyanoacrylate vapours can cause discomfort and tears, nasal discharge, and blurred vision. The eyelids may be glued shut. Double vision and corneal scratching may occur.

Irritating to eyes.

SKIN

The material is highly discomforting to the skin and may cause chemical burns.

Sensitisation may result in allergic dermatitis responses including rash, itching, hives or swelling of extremities.

Small n-alkyl cyanoacrylates cause burns and irritation on skin contact. Exposure to their vapours can cause irritation, but usually only in dry conditions.

Irritating to skin.

INHALED

The vapour is discomforting to the upper respiratory tract.

Respiratory sensitisation may result in allergic/asthma like responses; from coughing and minor breathing difficulties to bronchitis with wheezing, gasping.

In low humidity, cyanoacrylate vapours are irritating to the respiratory system and eyes. High concentrations may cause inflammation of the lungs and other complications. They are much less dangerous in high humidity.

Irritating to respiratory system.

CHRONIC HEALTH EFFECTS

Principal routes of exposure are by accidental skin and eye contact and by inhalation of vapours especially at higher temperatures

Dermatitis may result from prolonged exposures. On repeated and prolonged exposure by skin contact or inhalation, a small proportion of individuals develop allergic sensitivities.

Chronic exposure to cyanides and certain nitriles may result in interference to iodine uptake by thyroid gland and its consequent enlargement. This occurs following metabolic conversion of the cyanide moiety to thiocyanate. Thyroid insufficiency may also occur as a result of metabolic conversion of cyanides to the corresponding thiocyanate. Exposure to small amounts of cyanide compounds over long periods are reported to cause loss of appetite, headache, weakness, nausea, dizziness, abdominal pain, changes in taste and smell, muscle cramps, weight loss, flushing of the face, persistent runny nose and irritation of the upper respiratory tract and eyes. These symptoms are not specific to cyanide exposure and therefore the existence of a chronic cyanide toxicity remains speculative. Repeated minor contact with cyanides produce a characteristic rash with itching, papules (small, superficial raised spots on the skin) and possible sensitisation. Concerns have been expressed that low-level, long term exposures may result in damage to the nerves of the eye.

TOXICITY AND IRRITATION

AUSTRALIAN ADHESIVES SUPER GLUE: None assigned. Refer to individual constituents.

ETHYL CYANOACRYLATE:

■ unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances. IRRITATION

TOXICITY

Oral (rat) LD50: >5000 mg/kg

Nil Reported

Oral (rat) LD50: 0.18 ml/kg * [Manufacturer]

Dermal (rabbit) LD50: >2000 mg/kg

Dermal (Rabbit) LD50: 0.22 ml/kg *

Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholing challenge testing and the lack of minimal lymphocytic inflammation, with ut exponential hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. Industrial bronchitis, on the other hand, is a disorder that occurs as result of exposure due to high concentrations of irritating substance (often particulate in nature) and is completely reversible after exposure ceases. The disorder is characterised by dyspnea, cough and mucus production. For methyl cyanoacrylate (MCA) and ethyl cyanoacrylate (ECA)

Studies show that the key toxicological features of MCA and ECA are as a result of local activity at the site of contact. Liquid MCA

CG3

Chemwatch 4932-19

Hazard Alert Code: MODERATE

CD 2011/1

Chemwatch Material Safety Data Sheet (REVIEW)

Version No: 2.0

Chemwatch 4932-19 CD 2011/1

Hazard Alert Code: MODERATE

Issue Date: 30-Jun-2007

NC317TCP

and ECA may cause eye and skin irritation on repeated exposure but inconclusive evidence of skin sensitization and asthma causing effect. ECA and MCA does not cause genetic toxicity but presents similar health effect predicted to be due to its similar dose-response relationship, close structural similarities, similar physicochemical properties and toxicological profiles. * [AIHAAP]

Section 12 - ECOLOGICAL INFORMATION

ETHYL CYANOACRYLATE:

Substances containing unsaturated carbons are ubiquitous in indoor environments. They result from many sources (see below).
 Most are reactive with environmental ozone and many produce stable products which are thought to adversely affect human health. The potential for surfaces in an enclosed space to facilitate reactions should be considered.
 Source of unsaturated substances (Reactive Major Stable Products produce following

Source of unsaturated substances	Emissions)	reaction with ozone.	
Occupants (exhaled breath, ski oils, personal care products)	Isoprene, nitric oxide, squalene, unsaturated sterols, oleic acid and other unsaturated fatty acids, unsaturated oxidation products	Methacrolein, methyl vinyl ketone, nitrogen dioxide, acetone, 6MHQ, geranyl acetone, 4OPA, formaldehyde, nonanol, decanal, 9- oxo-nonanoic acid, azelaic acid, nonanoic acid.	
Soft woods, wood flooring, including cypress, cedar and silver fir boards, houseplants	Isoprene, limonene, alpha-pinene, other terpenes and sesquiterpenes	Formaldehyde, 4-AMC, pinoaldehyde, pinic acid, pinonic acid, formic acid, methacrolein, methyl vinyl ketone, SOAs including ultrafine particles	
Carpets and carpet backing	4-Phenylcyclohexene, 4-vinylcyclohexene, styrene, 2-ethylhexyl acrylate, unsaturated fatty acids and esters	Formaldehyde, acetaldehyde, benzaldehyde, hexanal, nonanal, 2- nonenal	
Linoleum and paints/polishes containing linseed oil	Linoleic acid, linolenic acid	Propanal, hexanal, nonanal, 2-heptenal, 2- nonenal, 2-decenal, 1-pentene-3-one, propionic acid, n-butyric acid	
Latex paint	Residual monomers	Formaldehyde	
Certain cleaning products, polishes, waxes, air fresheners	Limonene, alpha-pinene, terpinolene, alpha-terpineol, linalool, linalyl acetate and other terpenoids, longifolene and other sesquiterpenes	Formaldehyde, acetaldehyde, glycoaldehyde, formic acid, acetic acid, hydrogen and organic peroxides, acetone, benzaldehyde, 4-hydroxy-4-methyl-5- hexen-1-al, 5-ethenyl-dihydro-5-methyl-2 (3H)-furanone, 4-AMC, SOAs including ultrafine particles	
Natural rubber adhesive	Isoprene, terpenes	Formaldehyde, methacrolein, methyl vinyl ketone	
Photocopier toner, printed paper, styrene polymers	Styrene	Formaldehyde, benzaldehyde	
Environmental tobacco smoke	Styrene, acrolein, nicotine	Formaldehyde, benzaldehyde, hexanal, glyoxal, N-methylformamide, nicotinaldehyde, cotinine	
Soiled clothing, fabrics, bedding	Squalene, unsaturated sterols, oleic acid and other saturated fatty acids	Acetone, geranyl acetone, 6MHO, 40PA, formaldehyde, nonanal, decanal, 9-oxo- nonanoic acid, azelaic acid, nonanoic acid	
Soiled particle filters	Unsaturated fatty acids from plant waxes, leaf litter, and other vegetative debris; soot; diesel particles	Formaldehyde, nonanal, and other aldehydes; azelaic acid; nonanoic acid; 9- ; oxo-nonanoic acid and other oxo-acids; compounds with mixed functional groups (=O, -OH, and -COOH)	
Ventilation ducts and duct liners	Unsaturated fatty acids and esters, unsaturated oils, neoprene	C5 to C10 aldehydes	
"Urban grime"	Polycyclic aromatic hydrocarbons	Oxidized polycyclic aromatic hydrocarbons	
Perfumes, colognes, essential oils (e.g. lavender, eucalyptus, tea tree)	Limonene, alpha-pinene, linalool, linalyl acetate, terpinene-4-ol, gamma-terpinene	Formaldehyde, 4-AMC, acetone, 4- hydroxy-4-methyl-5-hexen-1-al, 5-ethenyl- dihydro-5-methyl-2(3H) furanone, SOAs including ultrafine particles Formaldehyde	
Overall home emissions	Limonene, alpha-pinene, styrene	acetone, pinic acid, pinonic acid, formic acid, benzaldehyde, SOAs including ultrafine particles	
Abbreviations: 4-AMC, 4-acetyl-1-methylcy Organic Aerosols Reference: Charles J Weschler; Environme DO NOT discharge into sewer or waterway	clohexene; 6MHQ, 6-methyl-5-heptene-2-o Intal Helath Perspectives, Vol 114, October 2 s.	ne, 40PA, 4-oxopentanal, SOA, Secondary 2006.	
Ecotoxicity			

Ingredient

Persistence:

Persistence:

Bioaccumulation

Mobility

	Aust	ralian Adhe Glue	esives Super	Hazard Alert Code: MODERATE
Chemwatch Material Safety Data Sheet (REVIEW) Version No: 2.0				Chemwatch 4932-19
Issue Date: 30-Ju	n-2007			CD 2011/1
NC317TCP				
Australian Adhesives Super Glue	Water/Soil No Data Available	Air No Data Available No		
ethyl cyanoacrylate	LOW	Data Available	LOW	HIGH

Section 13 - DISPOSAL CONSIDERATIONS

Recycle wherever possible.
 Consult manufacturer for recycling options.

Consult State Land Waste Management Authority for disposal. Bury or incinerate residue at an approved site. Incinerate residue at an approved site.

Section 14 - TRANSPORTATION INFORMATION



Labels Required: COMBUSTIBLE LIQUID, regulated under AS1940 for Bulk Storage purposes only. HAZCHEM: None (ADG7)

None (ADG7) NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS: UN, IATA, IMDG

Section 15 - REGULATORY INFORMATION

POISONS SCHEDULE None

REGULATIONS Regulations for ingredients ethyl cyanoacrylate (CAS: 7085-85-0) is found on the following regulatory lists; "Australia Hazardous Substances", "Australia Inventory of Chemical Substances (AICS)", "OECD Representative List of High Production Volume (HPV) Chemicals" No data for Australia Adhesives Super Clus (CW: 4022-10)

No data for Australian Adhesives Super Glue (CW: 4932-19)

Section 16 - OTHER INFORMATION

 Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.
 A list of reference resources used to assist the committee may be found at: www.chemwatch.net/references.

• The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

This document is copyright. Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH. TEL (+61 3) 9572 4700.

Issue Date: 30-Jun-2007 Print Date:24-Jun-2011

CG3