

Material Safety Data Sheet

SELLEYS

PTY LIMITED
ACN 000 049 427

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

Product name: ARALDITE 5 MINUTE EPOXY ADHESIVE PART A AND PART B

Synonyms: Bisphenol A epoxy resin and hardener based on trimercaptan and polyamine.

CAS-No.:

Molecular Formula:

MANUFACTURER'S CODE:

8mL tube kit - 9300697107619
24mL dual syringe - 9300697106391
35mL tube kit - 9300697101402
200mL tube kit - 9300697100412

In each case half of kit is Part A and half is Part B.

Supplier: Selleys Pty Limited
ACN: 000 049 427
Street Address: 1 Gow Street
Padstow 2211
Australia
Telephone: + 61 2 9707 8111
Facsimile: + 61 2 9707 8225

Emergency telephone number: 1 800 033 111 (ALL HOURS)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Recommended use: Fast setting Epoxy Resin adhesive for bonding metal, glass, ceramics, china, porcelain, rubber and wood.

Appearance: RESIN PART A: Clear, colourless or pale yellow liquid with a mild odour.
HARDENER PART B: Clear, colourless or pale yellow liquid with a mild sulphur odour.

RESIN - PART A

CHEMICAL ENTITY	CAS NO.	PROPORTION
Bisphenol A epoxy resins	25068-38-6	VHIGH
Other ingredients determined to be non hazardous	-	to 100%
		100%

HARDENER - PART B

CHEMICAL ENTITY	CAS NO.	PROPORTION
Dimethylaminopropyl-1,3-propylenediamine	10563-29-8	LOW

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HARDENER PART B: Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open. Remove clothing if contaminated and wash skin. Seek immediate medical assistance.

Skin contact: RESIN PART A: Immediately wash contaminated skin with plenty of soap and water. Remove contaminated clothing and wash before re-use. If swelling, redness, blistering, or irritation occurs seek medical advice.

HARDENER PART B: Immediately wash contaminated skin with plenty of soap and water. Remove contaminated clothing and wash before re-use. If swelling, redness, blistering, or irritation occurs seek medical advice.

Inhalation: RESIN PART A: Remove victim from exposure - avoid becoming a casualty. Seek medical advice if effects persist.

HARDENER PART B: Remove victim from exposure - avoid becoming a casualty. Seek medical advice if effects persist.

Notes to physician: Treat symptomatically. Effects may be delayed.

5. FIRE-FIGHTING MEASURES

Specific hazards: Combustible liquid.

In common with many organic chemicals, dust from sanding or abrasion may form flammable dust clouds in air. For precautions necessary refer to safety data sheet "Dust Explosion Hazards".

Fire fighting further advice: Combustible liquid. On burning will emit toxic fumes including those of carbon oxides, nitrogen oxides and hydrochloric acid. Fire fighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of combustion.

Suitable extinguishing media: Water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

6. ACCIDENTAL RELEASE MEASURES

FOR SMALL SPILLS: Slippery when spilt. Avoid accidents, clean up immediately. Wipe excess material off surface with cloth or absorbent paper, avoiding skin contact. Any undried residual material can be cleaned up with mineral turpentine, or similar hydrocarbon solvent, or acetone based nail polish remover. Dried material can only be removed by cutting or abrasion.

FOR LARGE SPILLS: Wear protective equipment to prevent skin and eye contamination and inhalation of vapours. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properlylabelled drums for disposal.

7. HANDLING AND STORAGE

Storage: Store in a cool place (5-35C) (1,2) and out of direct sunlight, away from sources of ignition, oxidising agents, acids, bases and foodstuffs. Keep containers closed at all times - check regularly for leaks.

Classified as a C1 (COMBUSTIBLE LIQUID) for the purpose of storage and handling, in accordance with the requirements of AS 1940. Refer to State Regulations for storage and transport requirements.

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Vapour Pressure (20 C)	: < 10 Pa	Decomp. Point (C)	: > 15
Flash Point (C)	: > 100	Sublimation Point	: N Ap
Flammability Limits (%)	: N Av	pH	: N Ap
Autoignition Temp (C)	: N Av	Viscosity (25 C)	: 12 P
% Volatile by volume	: N Av	Evaporation Rate	: N Av
Solubility in water	: Partially soluble (n-Butyl acetate=1) (Typical values only - consult specification sheet)		
N Av = Not available		N App = Not applica	

10. STABILITY AND REACTIVITY

Stability: RESIN PART A: Incompatible with oxidising agents, acids and bases.
HARDENER PART B: Incompatible with oxidising agents, acids and bases.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms that may arise if the product is mishandled are:

Acute Effects

Ingestion: RESIN PART A: Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.
HARDENER PART B: Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

Eye contact: RESIN PART A: An eye irritant.
HARDENER PART B: An eye irritant.

Skin contact: RESIN PART A: Contact with skin will result in irritation. Repeated or prolonged skin contact may lead to allergic contact dermatitis. Will have a degreasing action on the skin. A skin sensitiser.
HARDENER PART B: Contact with skin will result in irritation. Repeated or prolonged skin contact may lead to allergic contact dermatitis. Will have a degreasing action on the skin. A skin sensitiser.

Inhalation: RESIN PART A: Vapour may be irritant to mucous membranes and respiratory tract.
HARDENER PART B: Vapour may be irritant to mucous membranes and respiratory tract.

Long Term Effects:

RESIN PART A: No information available for product.
HARDENER PART B: No information available for product.

Acute toxicity / Chronic toxicity

No relevant LD50 data available for product, however for ingredients;

For Resin - Part A: (1)

Oral LD50(rat): >5000 mg/kg.

For Hardener - Part B: (2)

Oral LD50(rat): >2500 mg/kg.

12. ECOLOGICAL INFORMATION

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This material is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits

No value assigned for this specific material by the National Occupational Health and Safety Commission (Worksafe Australia).

Engineering measures: Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Exposure Standards. Keep containers closed when not in use.

Personal protection equipment: Selleys Safe Handling Code: BLUE

Avoid skin and eye contact. Wear clean overalls, safety boots, general purpose gloves (PVC) and full-face visor. Available information suggests that gloves made from rubber, neoprene or PVC to AS 2161, (1,2) should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, a final assessment should be made by the user. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using. Avoid breathing dust when sanding. Wet sand, or if risk of inhalation of dust exists, wear a dust respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form / Colour / Odour: RESIN PART A: Clear, colourless or pale yellow liquid with a mild odour.
HARDENER PART B: Clear, colourless or pale yellow liquid with a mild sulphur odour.

Solubility: RESIN PART A: Insoluble in water.
HARDENER PART B: Partially soluble in water.

RESIN - PART A

Specific Gravity (20 C)	: 1.17	Melting Point (C)	: N App
Rel Vapour Density (air=1)	: N Av	Boiling Point (C)	: > 200
Vapour Pressure (20 C)	: < 0.01 Pa	Decomp. Point (C)	: > 200
Flash Point (C)	: > 200	Sublimation Point	: N App
Flammability Limits (%)	: N Av	pH (1:1 aqu mix)	: 7
Autoignition Temp (C)	: N Av	Viscosity (25 C)	: 12-16 Pa.s
% Volatile by volume	: N Av	Evaporation Rate	: N Av
Solubility in water (g/L)	: Insoluble (n-Butyl acetate=1)		

(Typical values only - consult specification sheet)
N Av = Not available N App = Not applicable

HARDENER - PART B

Specific Gravity (20 C)	: 1.1-1.12	Melting Point (C)	: N Ap
Rel Vapour Density (air=1)	: N Av	Boiling Point (C)	: >200

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Avoid contaminating waterways.
No environmental impact data found for this material, however:
For Resin - Part A: (1)
Epoxy resins are classed as toxic to aquatic organisms and they may cause long term effects in the aquatic environment.
For Hardener - Part B: (2)
Harmful to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Refer to State Land Waste Management Authority. Normally suitable for disposal at approved land waste site, or by incineration by approved agent.

14. TRANSPORT INFORMATION

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by road or rail.

15. REGULATORY INFORMATION

Hazardous according to criteria of Worksafe Australia.

Hazard Category

(A)	RESIN PART A:
Xi	Irritant
(B)	HARDENER PART B:
Xi	Irritant

R-phrases

(A)	RESIN PART A:
R36/38	Irritating to eyes and skin.
R43	May cause sensitization by skin contact.
(B)	HARDENER PART B:
R36/38	Irritating to eyes and skin.
R43	May cause sensitization by skin contact.

S-phrases

(A)	RESIN PART A:
S28	After contact with skin, wash immediately with plenty of soap and water.
S37/39	Wear suitable gloves and eye/face protection.
(B)	HARDENER PART B:
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.

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Poisons Schedule (Aust)/Toxic Substance (NZ): S5

16. OTHER INFORMATION

Literary reference

(1) Material Safety Data Sheet; Araldite LC219S - 000704544002; Selleys Pty Limited; 11/97

(2) Material Safety Data Sheet; Hardener LC219S - 000704554102; Selleys Pty Limited; 11/97

This Material Safety Data Sheet has been prepared by SHE Pacific Pty Ltd on behalf of Orica Ltd and its subsidiary companies.

Contact Point: SHE Pacific Pty Ltd, MSDS Services

Within Australia: Telephone 1 800 624 132
Facsimile (03) 9665 7929

Outside Australia: Telephone +61 3 9665 7500
Facsimile +61 3 9665 7929

Reason(s) For Issue: Change in formulation.

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

For further copies of this sheet or other product information contact Selleys Pty Limited Customer Service.

Phone: 1300 555 205 (Australia wide)

Fax: 1300 555 305 (Australia wide)

This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since Orica Limited and its subsidiaries cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.

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