

Material Safety Data Sheet



1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **ARALDITE SUPER STRENGTH EPOXY ADHESIVE PARTS A & B**

Recommended Use: Two pack product for bonding rigid plastics, glass, metal, china and wood.

Supplier: Selley's Pty Ltd
ABN: 67 000 049 427
Street Address: 1 Gow Street
Padstow 2211
Australia
Telephone Number: +61 2 9781 8777
Facsimile: +61 2 9781 8825
Emergency Telephone: **1 800 033 111 (ALL HOURS)**

2. HAZARDS IDENTIFICATION

This material is hazardous according to criteria of Safe Work Australia; HAZARDOUS SUBSTANCE.

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.

Risk Phrases: Irritating to eyes and skin. May cause sensitisation by skin contact. Toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment.

Safety Phrases: Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water (or soap and water if product is water insoluble). Wear suitable protective clothing, gloves and eye/face protection. Avoid release to the environment. Refer to special instructions safety data sheets.

Poisons Schedule: S5 Caution.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Proportion	Risk Phrases
Bisphenol A - epoxy resins, number average MW>700-<1100	25068-38-6	1-<10%	R36/38 R43
Silica	7631-86-9	1-<10%	-
Polyaminoamide	-	>60%	-
Part A	-	100%	-
Bisphenol F epoxy resin	9003-36-5	1-<10%	R36/38 R43 R51/53
Part B	-	100%	-
Dimethylaminopropyl-1,3-propylene diamine	10563-29-8	1-<10%	R21/22 R34 R43
Bisphenol A-Epichlorhydrin reaction product(NAMW<700)	25068-38-6	>60%	R36/38 R43 R51/53

4. FIRST AID MEASURES

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For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor.

Inhalation:

Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Skin Contact:

If skin or hair contact occurs, immediately remove any contaminated clothing and wash skin and hair thoroughly with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.

Eye Contact:

Immediately wash in and around the eye area with large amounts of water for at least 15 minutes. Eyelids to be held apart. Remove clothing if contaminated and wash skin. Urgently seek medical assistance. Transport to hospital or medical centre.

Ingestion:

Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Seek immediate medical assistance.

Medical attention and special treatment:

Treat symptomatically. Effects may be delayed.

5. FIRE FIGHTING MEASURES

Hazards from combustion products:

Combustible liquid. On burning will emit toxic fumes, including those of oxides of carbon and oxides of nitrogen .

Precautions for fire fighters and special protective equipment:

Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

Suitable Extinguishing Media:

Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).

Hazchem Code: · 3Z

6. ACCIDENTAL RELEASE MEASURES

Emergency procedures:

If contamination of sewers or waterways has occurred advise local emergency services.

Methods and materials for containment and clean up:

SMALL SPILLS: Wear protective equipment to prevent skin and eye contact. Wipe up with rag or absorbent paper. Any residual material can be cleaned up with mineral turpentine or similar hydrocarbon solvent, or acetone based nail polish remover.

LARGE SPILLS: Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact and breathing in vapours. Scrape up excess material before cure. Collect and seal in properly labelled containers or drums for disposal. Cured material can only be removed by cutting or abrasion.

7. HANDLING AND STORAGE

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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.

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

Conditions for safe storage:

Store in cool place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks.

Precautions for safe handling:

Avoid skin and eye contact and breathing in vapour.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: No value assigned for this specific material by the National Occupational Health and Safety Commission. However, Exposure Standard(s) for constituent(s):

Silica Amorphous - Fumed silica (respirable dust): 8hr TWA = 2 mg/m³

As published by the National Occupational Health and Safety Commission.

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Engineering controls:

Use in well ventilated areas. Keep containers closed when not in use.

Personal Protective Equipment:

The selection of PPE is dependant on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

Selleys Factory Safe Handling Code: Blue



MANUFACTURE, PACKAGING AND TRANSPORT: Blue - Wear clean overalls, safety boots, general purpose gloves (PVC) and full face visor. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

If risk of inhalation exists, wear organic vapour respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

FOR CONSUMER USE: Avoid contact with eyes and skin. Wash hands after use. Rubber gloves and eye protection are recommended while handling the product.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Viscous liquid
Odour:	Ammoniacal
Solubility:	Immiscible with water.
Specific Gravity:	0.95-1.20
Relative Vapour Density (air=1):	Not available
Vapour Pressure (20 °C):	Not available
Flash Point (°C):	>100
Flammability Limits (%):	Not available
Autoignition Temperature (°C):	Not available
% Volatile by Volume:	Not available
Melting Point/Range (°C):	Not applicable
Boiling Point/Range (°C):	>200
pH:	6 (Part A)
Viscosity:	17-23 mPa.s
Evaporation Rate:	Not available

10. STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions of use.
Conditions to avoid:	Avoid contact with foodstuffs. Avoid exposure to heat, sources of ignition, and open flame.
Incompatible materials:	Incompatible with strong acids, bases and oxidising agents.
Hazardous decomposition products:	Oxides of carbon. Oxides of nitrogen.
Hazardous reactions:	No hazardous reactions when stored and handled correctly.

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 or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion:	Swallowing can result in nausea, vomiting, diarrhoea, and gastrointestinal irritation.
Eye contact:	An eye irritant.
Skin contact:	Contact with skin will result in irritation. A skin sensitiser. Repeated or prolonged skin contact may lead to allergic contact dermatitis.
Inhalation:	Material may be irritant to the mucous membranes of the respiratory tract (airways).

Long Term Effects:

No information available for the product.

Toxicological Data:

Oral LD50 (rat): >5000 mg/kg (1)
SKIN: Irritant (rabbit). A skin sensitiser (guinea pig). (1)
EYES: Irritant (rabbit). (1)

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12. ECOLOGICAL INFORMATION

Ecotoxicity	Avoid contaminating waterways.
Persistence/degradability and mobility	Not readily biodegradable. (1)
Aquatic toxicity:	Toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Disposal methods:

Refer to Waste Management Authority. Dispose of material through a licensed waste contractor.

14. TRANSPORT INFORMATION

Road and Rail Transport

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.



UN No:	3082
Class-primary	9 Miscellaneous Dangerous Goods
Packing Group:	III
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BISPHENOL A/F EPOXY RESIN)
Hazchem Code:	· 3Z

Marine Transport

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.

This material is classified as a Marine Pollutant (P) according to the International Maritime Dangerous Goods Code.

UN No:	3082
Class-primary:	9 Miscellaneous Dangerous Goods
Packing Group:	III
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BISPHENOL A/F EPOXY RESIN)

Air Transport

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS.

UN No:	3082
Class-primary:	9 Miscellaneous Dangerous Goods
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Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BISPHENOL A/F EPOXY RESIN)

15. REGULATORY INFORMATION

Classification: This material is hazardous according to criteria of Safe Work Australia; HAZARDOUS SUBSTANCE.

Hazard Category: Xi: Irritant
N: Dangerous for the Environment

Risk Phrase(s): R36/38: Irritating to eyes and skin.
R43: May cause sensitisation by skin contact.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrase(s): 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.
S28: After contact with skin, wash immediately with plenty of soap and water.
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.
S61: Avoid release to the environment. Refer to special instructions Safety Data Sheets.

Poisons Schedule: S5 Caution.

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

(1) Supplier Material Safety Data Sheet; 08/ 2008.

This material safety data sheet has been prepared by SH&E Shared Services, Orica.
For further copies of this sheet or other product information contact Selleys Proprietary Limited Customer Service.

Phone: 1300 555 205 (Australia wide)
Fax: 1300 555 305 (Australia wide)
Phone: 9 820 4852 (New Zealand)
Fax: 0800 804 583 (New Zealand)

Reason(s) for Issue:
Revised Primary MSDS
Change in Hazardous Substance Classification
Change to Transport Information

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This MSDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Orica Limited cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their Orica representative or Orica Limited at the contact details on page 1.

Orica Limited's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.