

ALEC TIRANTI LIMITED

TOOLS, MATERIALS & EQUIPMENT FOR MODELLING, CARVING, SCULPTURE

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Material Safety Data Sheet

ARALDITE RAPID®

RESIN - Component A

1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION

Product Name: Araldite Rapid – Resin and Hardener

2 COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS Nos	EINEC Nos	Classification	Content
BUTANEDIOLDIGLYCIDYL ETHER	2425-79-8	219-371-7	Xn, R20/21, R36/38, R43	5-10%
BISPHENOL A-EPICHLOROHYDRIN EPOXY RESIN (NUMBER AV MW<700)	25068-38-6	500-033-5	Xi, N, R36/38, R43, R51/53	60-100%

The Full Text of all R-Phrases are Displayed in Section 16.

3 HAZARD IDENTIFICATION

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.

4 FIRST AID MEASURES

Eyes: Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

Skin: Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing.

Ingestion: DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS!. Rinse mouth thoroughly. Get medical attention immediately! Provide rest, warmth and fresh air.

Inhalation: Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

5 FIRE FIGHTING MEASURES

Extinguishing Media: Use extinguishing media appropriate for surrounding fire.
Special Fire Fighting Procedures: Keep run-off water out of sewers and water courses. Dike for water control. If risk of water pollution occurs, notify appropriate authorities.
Hazardous Combustion Products: Fire creates: Carbon monoxide (CO). Carbon dioxide (CO²)

6 ACCIDENTAL RELEASE MEASURES

Spill Clean Up Methods: Wear necessary protective equipment. Stop leak, if possible without risk. DO NOT touch spilled material! Runoff or release to sewer, waterway or ground is forbidden. Absorb in vermiculite, dry sand or earth and place into containers. Flush area with plenty of water. Do not let washing down water contaminate ponds or waterways.

7 HANDLING & STORAGE

Usage Precautions: Avoid spilling, skin and eye contact. Provide good ventilation. Persons susceptible for allergic reactions should not handle this product.

Storage Precautions: Keep in cool, dry, ventilated storage and closed containers. Keep in original container.

Storage Criteria: Chemical Storage.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredient Comments:	OES = Occupational Exposure Standard.
Protective Equipment:	Safety goggles and safety gloves.
Ventilation:	Provide adequate general and local exhaust ventilation.
Protective Gloves:	Use protective gloves.
Eye Protection:	Use approved safety goggles or face shield.
Other Protection:	Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact. Provide eyewash station.
Hygienic Work Practices:	DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. No eating or drinking while working with this material.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid
Colour:	Light yellow
Odour/Taste:	Slight
Density/Specific Gravity (g/ml):	1.17
Temperature (°C):	25
Flash Point (°C):	>200
Method:	

10 STABILITY AND REACTIVITY

Stability:	Normally Stable.
Conditions to Avoid:	Avoid contact with strong oxidisers.
Hazardous Decomposition Products:	Fire or high temperatures create: Carbon monoxide (CO). Carbon dioxide (CO ²).

11 TOXICOLOGICAL INFORMATION

Eyes:	Irritating to eyes.
Skin:	Liquid may irritate skin. May cause sensitisation by skin contact.
Ingestion:	May cause discomfort if swallowed.
Inhalation:	Vapour may irritate respiratory system or lungs.
Medical Considerations:	Skin disorders and allergies.

12 ECOLOGICAL INFORMATION

Ecological Information:	Dangerous for the environment. May cause long-term adverse effects in the aquatic environment.
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13 DISPOSAL CONSIDERATIONS

Disposal Methods:	Dispose of in accordance with Local Authority requirements.
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14 TRANSPORT INFORMATION

UN No. Road:	3082
UK Road Transport Class:	9
UK Road Packing Group:	III
ADR Class No.:	9
ADR Class:	Class 9: Miscellaneous dangerous substances and articles.
ADR Packing Group:	III
ADR Label No.:	9
HAZCHEM Code:	2X
CEFIC TEC(R) No.:	90GM6-III
Proper Shippng Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BUTANEDIOLDIGLYCIDYL ETHER)
RID Class No.:	9
RID Packing Group:	III
UN No. - SEA:	3082
IMDG:	9
IMDG Packing Group:	III
EmS No.:	None
MFAG Table No.:	See Guide
Marine Pollutant:	No
UN No. - AIR:	3082
ICAO Class:	9
Air Packing Group:	III

15 REGULATORY INFORMATION

LABEL FOR SUPPLY



Irritant



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contains: BISPHENOL A-EPICHLOROXYDRIN EPOXY RESIN (NUMBER AV MW<700)
BUTANEDIOLDIGLYCIDYL ETHER

Risk Phrases

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 Phrases:

P-5	Contains epoxy constituents. See information supplied by the manufacturer.
S2	Keep out of the reach of children.
S24/25	Avoid contact with skin and eyes.
S28B	After contact with skin, wash immediately with plenty of soap and water.
S29/56	Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S46	If swallowed, seek medical advice immediately and show this container or label.

Approved Code of Practice: Safety Data Sheets for Substances and Preparations L62.
Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes: Occupational Exposure Limits EH40.
CHIP for everyone HSG (108).

16 OTHER INFORMATION

R-Phrases (Full Text)

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.
R20/21	Harmful by inhalation and in contact with skin.

December 2002

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Material Safety Data Sheet

ARALDITE RAPID®

HARDENER - Component B

1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION

Product Name: Araldite Rapid – Resin and Hardener

2 COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS Nos	Classification	Content
1-(DIMETHYLAMINOETHYL)-4- METHYLPIPERAZINE	104-19-8	T R22, R24, R34	1-5 %
N(3-DIMETHYLAMINOPROPYL)-1, 3- PROPYLENEDIAMINE	10563-29-8	C R21/22, R34, R43	1-5%
TRIETHYLENE GLYCOL DIMERCAPATAN	14970-87-7	Xn; R20/22	1-5%

The Full Text of all R-Phrases are Displayed in Section 16.

3 HAZARD IDENTIFICATION

Irritating to eyes and skin. May cause sensitisation by skin contact.

4 FIRST AID MEASURES

Eyes: Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

Skin: Remove affected person from source of contamination. Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above. Get medical attention immediately.

Ingestion: DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Promptly get affected personnel to drink large volumes of water to dilute the swallowed chemical. Get medical attention immediately! Provide rest, warmth and fresh air.

Inhalation: Move the exposed person to fresh air at once. Get medical attention if any discomfort continues. Perform artificial respiration if breathing has stopped. When breathing is difficult properly trained personnel may assist affected person by administering 100% oxygen. Keep the affected person warm and at rest. Get prompt medical attention.

5 FIRE FIGHTING MEASURES

Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Special Fire Fighting Procedures: Keep run-off water out of sewers and water courses. Dike for water control. Cool containers exposed to flames with water until well after the fire is out. Move container from fire area if it can be done without risk. If risk of water pollution occurs, notify appropriate authorities.

6 ACCIDENTAL RELEASE MEASURES

Spill Clean Up Methods: Wear necessary protective equipment. Runoff or release to sewer, waterway or ground is forbidden. Absorb in vermiculite, dry sand or earth and place into containers. Flush area with plenty of water. Do not let washing down water contaminate ponds or waterways.

7 HANDLING & STORAGE

Usage Precautions: Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Persons susceptible for allergic reactions should not handle this product.

Storage Criteria: Chemical Storage.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Protective Equipment: Safety goggles and safety gloves.
Ventilation: Provide adequate general and local exhaust ventilation.
Respirators: No specific recommendations made, but respiratory protection must be used if the general level exceeds the Occupation Exposure Level (OEL).
Protective Gloves: Use protective gloves.
Eye Protection: Use approved safety goggles.
Other Protection: Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact. Provide eyewash station.
Hygienic Work Practices: DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. No eating or drinking while working with this material.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Viscous, Liquid
Colour: Yellow
Flash Point (°C): >100
Method:

10 STABILITY AND REACTIVITY

Stability: Normally Stable.
Conditions to Avoid: Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidisers.
Hazardous Decomposition Products: Fire or high temperatures create: Carbon monoxide (CO). Carbon dioxide (CO₂).

11 TOXICOLOGICAL INFORMATION

Eyes: Irritating to eyes.
Skin: Liquid may irritate skin. May cause sensitisation by skin contact.
Ingestion: May cause discomfort if swallowed.
Inhalation: Irritating to respiratory system.
Medical Considerations: Skin disorders and allergies.

12 ECOLOGICAL INFORMATION

13 DISPOSAL CONSIDERATIONS

Disposal Methods: Dispose of in accordance with Local Authority requirements.

14 TRANSPORT INFORMATION

ADR Class: Not classified for transportation.
Marine Pollutant: No

15 REGULATORY INFORMATION

LABEL FOR SUPPLY



Irritant

contains: N(3-DIMETHYLAMINOPROPYL) -1, 3-PROPYLENEDIAMINE

Risk Phrases: R36/38 Irritating to eyes and skin.
R43 May cause sensitisation by skin contact.

Safety Phrases:	S2	Keep out of the reach of children.
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S28B	After contact with skin, wash immediately with plenty of soap and water.
	S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
	S46	If swallowed, seek medical advice immediately and show this container or label.

16 OTHER INFORMATION

R-Phrases (Full Text)

R20/22	Harmful by inhalation and if swallowed.
R22	Harmful if swallowed
R24	Toxic in contact with skin.
R34	Causes burns
R21/22	Harmful in contact with skin and if swallowed.
R43	May cause sensitisation by skin contact.

December 2002