



SAFETY DATA SHEET

ARALDITE RAPID RESIN

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

PRODUCT NAME: ARALDITE RAPID RESIN

PART No.: 80806, 80808, 80817, 80819, 80811

SUPPLIER: BOSTIK FINDLEY LIMITED
COMMON ROAD
STAFFORD. ST16 3EH
STAFFORDSHIRE
Tel: +44 1785 272727
Fax: +44 1785 257236

EMERGENCY TELEPHONES: +44 1785 255141 +44 1785 272650

2. COMPOSITION/INFORMATION ON INGREDIENTS

NAME		CLASSIFICATION	CONTENT
CAS No.:	EINECS Nr.:		
BUTANEDIOLDIGLYCIDYL ETHER			5-10 %
2425-79-8	219-371-7	Xn R-20/21, 36/38, 43	
BISPHENOL A -EPICHLOROHYDRIN EPOXY RESIN (NUMBER AV MW<700)			60-100 %
25068-38-6	500-033-5	Xi ,N R-36/38, 43, 51/53	

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

3. HAZARDS 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

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

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.

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.

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.

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 sources. Dike for water control. If risk of water pollution occurs, notify appropriate authorities.
HAZARDOUS COMBUSTION PRODUCTS:	Fire creates: Carbon monoxide (CO). Carbon dioxide (CO ₂).

6. ACCIDENTAL RELEASE MEASURES

SPILL CLEANUP 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 AND 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 AND PERSONAL PROTECTION

INGREDIENT COMMENTS: OES = Occupational Exposure Standard.

PROTECTIVE EQUIPMENT:



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 DECOMP. PRODUCTS:	Fire or high temperatures create: Carbon monoxide (CO). Carbon dioxide (CO ₂).

11. TOXICOLOGICAL INFORMATION

INHALATION:	Vapour may irritate respiratory system or lungs.
INGESTION:	May cause discomfort if swallowed.
SKIN:	Liquid may irritate skin. May cause sensitisation by skin contact.
EYES:	Irritating to eyes.
MEDICAL CONSIDERATIONS:	Skin disorders and allergies.

12. ECOLOGICAL INFORMATION

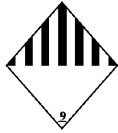
ECOLOGICAL INFORMATION:	Dangerous for the environment: May cause long-term adverse effects in the aquatic environment.
--------------------------------	--

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:	Dispose of in accordance with Local Authority requirements.
--------------------------	---

14. TRANSPORT INFORMATION

LABEL FOR CONVEYANCE:



UN No. ROAD:	3082
UK ROAD TRANSPORT CLASS:	9
UK ROAD PACK GR.:	III
ADR CLASS No.:	9
ADR CLASS:	Class 9: Miscellaneous dangerous substances and articles.
ADR PACK GR.	III
ADR LABEL No.:	9
HAZCHEM CODE:	2X
CEFIC TEC(R) No.:	90GM6-III
PROPER SHIPPING NAME I:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BUTANEDIOLDIGLYCIDYL ETHER,)
RID CLASS No.:	9
RID PACK GR.	III
UN No. SEA:	3082
IMDG CLASS:	9
IMDG PACK GR.:	III
EmS No.:	None
MFAG TABLE No.:	See Guide
MARINE POLLUTANT:	No.
UN No., AIR:	3082
ICAO CLASS:	9
AIR PACK GR.:	III

15. REGULATORY INFORMATION

LABEL FOR SUPPLY:



CONTAINS

BISPHENOL A -EPICHLOROHYDRIN EPOXY RESIN (NUMBER AV MW<700)
BUTANEDIOLDIGLYCIDYL ETHER

RISK PHRASES:

R-36/38 Irritating to eyes and skin.
R-43 May cause sensitisation by skin contact.
R-51/53 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. S-2 Keep out of the reach of children. S-24/25 Avoid contact with skin and eyes. S-28B After contact with skin, wash immediately with plenty of soap and water.. S-29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. S-36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S-46 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

USER NOTES:	This product should be used as directed by Bostik Findley Ltd. For further information consult the product data sheet or contact Technical Services.
INFORMATION SOURCES:	This safety data sheet was compiled using current safety information supplied by distributor of raw materials.
REVISION COMMENTS:	This safety data sheet supersedes all previous issues and users are cautioned to ensure that it is current. Destroy all previous data sheets and if in doubt contact Bostik Findley Limited.
ISSUED BY:	Approved ID
REVISION DATE:	Dec 2002
REV. No./REPL. SDS GENERATED:	1
DATE:	Dec 2002
PRINTING DATE:	2003-03-07
R-PHRASES (Full Text):	R-36/38 Irritating to eyes and skin. R-43 May cause sensitisation by skin contact. R-51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R-20/21 Harmful by inhalation and in contact with skin.



SAFETY DATA SHEET

ARALDITE RAPID HARDENER

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

PRODUCT NAME: ARALDITE RAPID HARDENER

PART No.: 80806, 80808, 80811, 80817, 80819

SUPPLIER: BOSTIK FINDLEY LIMITED
COMMON ROAD
STAFFORD. ST16 3EH
STAFFORDSHIRE
Tel: +44 1785 272727
Fax: +44 1785 257236

EMERGENCY TELEPHONES: +44 1785 255141 +44 1785 272650

2. COMPOSITION/INFORMATION ON INGREDIENTS

NAME	EINECS Nr.:	CLASSIFICATION	CONTENT
1-(DIMETHYLAMINOETHYL)-4-METHYLPIPERAZINE	104-19-8	T R-22, 24, 34	1-5 %
N(3-DIMETHYLAMINOPROPYL)-1,3-PROPYLENEDIAMINE	10563-29-8	C R-21/22, 34, 43	1-5 %
TRIETHYLENE GLYCOL DIMERCAPTAN	14970-87-7	Xn R-20/22	1-5 %

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

3. HAZARDS IDENTIFICATION

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

4. FIRST AID MEASURES

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.

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.

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.
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.

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 sources. 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 CLEANUP 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 AND 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 AND PERSONAL PROTECTION

PROTECTIVE EQUIPMENT:



VENTILATION:	Provide adequate general and local exhaust ventilation.
RESPIRATORS:	No specific recommendation made, but respiratory protection must be used if the general level exceeds the Occupational Exposure Level (OEL).
PROTECTIVE GLOVES:	Use protective gloves.
EYE PROTECTION:	Wear 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 DECOMP. PRODUCTS: Fire or high temperatures create: Carbon monoxide (CO). Carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION

INHALATION: Irritating to respiratory system.
INGESTION: May cause discomfort if swallowed.
SKIN: Irritating to skin. May cause sensitisation by skin contact.
EYES: Irritating to eyes.
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:**CONTAINS**

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

RISK PHRASES:R-36/38 Irritating to eyes and skin.
R-43 May cause sensitisation by skin contact.**SAFETY PHRASES:**S-2 Keep out of the reach of children.
S-26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S-28B After contact with skin, wash immediately with plenty of soap and water..
S-36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S-46 If swallowed, seek medical advice immediately and show this container or label.

16. OTHER INFORMATION

USER NOTES:

This product should be used as directed by Bostik Findley Ltd. For further information consult the product data sheet or contact Technical Services.

INFORMATION SOURCES:

This safety data sheet was compiled using current safety information supplied by distributor of raw materials.

REVISION COMMENTS:

This safety data sheet supersedes all previous issues and users are cautioned to ensure that it is current. Destroy all previous data sheets and if in doubt contact Bostik Findley Limited.

ISSUED BY:

Approved ID

REVISION DATE:

Dec 2002

**REV. No./REPL. SDS
GENERATED:**

1

DATE:

Dec 2002

PRINTING DATE:

2003-03-07

R-PHRASES (Full Text):

R-20/22 Harmful by inhalation and if swallowed. R-22 Harmful if swallowed. R-24 Toxic in contact with skin. R-34 Causes burns. R-21/22 Harmful in contact with skin and if swallowed. R-43 May cause sensitisation by skin contact.