

SAFETY DATA SHEET

ARALDITE PRECISION RESIN

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

PRODUCT NAME: ARALDITE PRECISION RESIN

PART No.: 80807R,80809R, ,80820R

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			CONTENT
CAS No.:	EINECS Nr.:	CLASSIFICATION	
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: Make sure to remove any contact lenses from the eyes before rinsing. 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.
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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:	Paste or slurry.		
COLOUR:	Buff.		
BOILING POINT (°C, interval):	> 200	Pressure:	
DENSITY/SPECIFIC GRAVITY (g/ml):	1.15 - 1.25	Temperature (°C):	25
VAPOUR PRESSURE:	< 0.1 Pa	Temperature (°C):	20
pH-VALUE, CONC. SOLUTION:	6		
VISCOSITY (interval):	30 - 50 Pas	Temperature (°C):	25
SOLUBILITY DESCRIPTION:	Insoluble in water.		
FLASH POINT (°C):	210	Method:	CC (Closed cup).

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

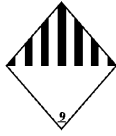
ECOLOGICAL INFORMATION:	Dangerous for the environment: May cause long-term adverse effects in the aquatic environment.
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13. DISPOSAL CONSIDERATIONS

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 ITEM No.: 11(c)
ADR MARGINAL: 2901
ADR LABEL No.: 9
HAZCHEM CODE: 2X
CEFIC TEC(R) No.: 90G01
PROPER SHIPPING NAME I: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BISPHENOL A -EPICHLOROHYDRIN EPOXY RESIN (NUMBER AV MW<700))
RID CLASS No.: 9
RID ITEM No.: 11(c)
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:

**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-26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 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.
 S-61 Avoid release to the environment. Refer to special instructions/ Safety Data Sheets.

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.

REV. No./REPL. SDS GENERATED:

1

PRINTING DATE:

2002-11-29

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.

SAFETY DATA SHEET

ARALDITE PRECISION HARDENER

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

PRODUCT NAME: ARALDITE PRECISION HARDENER

PART No.: 80809H, 80820H, 80807H

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			CONTENT
CAS No.:	EINECS Nr.:	CLASSIFICATION	
N(3-DIMETHYLAMINOPROPYL)-1,3-PROPYLENEDIAMINE 10563-29-8		C R-21/22, 34, 43	5-10 %

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.

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 if irritation persists after washing.

EYES: Make sure to remove any contact lenses from the eyes before rinsing. 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.
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.
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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:



PROTECTIVE GLOVES:	Use protective gloves.
EYE PROTECTION:	Use approved safety goggles or face shield.
OTHER PROTECTION:	Provide eyewash station. Wear appropriate clothing to prevent any possibility of skin contact.
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.	Pressure:	
COLOUR:	Light yellow.	Temperature (°C):	
BOILING POINT (°C, interval):	> 200	Temperature (°C):	20
DENSITY/SPECIFIC GRAVITY (g/ml):	0.95	Temperature (°C):	25
VAPOUR PRESSURE:	4 Pa	Method:	
pH-VALUE, CONC. SOLUTION:	12		
VISCOSITY (interval):	20000 - 35000 mPas		
SOLUBILITY DESCRIPTION:	Insoluble in water.		
FLASH POINT (°C):	110		

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:	Irritating to skin. May cause sensitisation by skin contact.
EYES:	Irritating to eyes.
MEDICAL CONSIDERATIONS:	Skin disorders and allergies.

12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:	Not regarded as dangerous for the 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

ADR CLASS: Not classified for transportation.
MARINE POLLUTANT: No.

15. REGULATORY INFORMATION

LABEL FOR SUPPLY:



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-24/25 Avoid contact with skin and eyes.
S-26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
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.
S-56 Dispose of this material and its container to hazardous or special waste collection point.

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.

REV. No./REPL. SDS GENERATED: 1

PRINTING DATE: 2002-11-29

R-PHRASES (Full Text): R-21/22 Harmful in contact with skin and if swallowed. R-34 Causes burns. R-43 May cause sensitisation by skin contact.