SAFETY DATA SHEET
ARALDITE PRECISION RESIN
According to Regulation (EC) No 1907/2006

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier
Product name ARALDITE PRECISION RESIN
Product No. 80807, 80809

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.3. Details of the supplier of the safety data sheet
Supplier BOSTIK LIMITED
COMMON ROAD
STAFFORD
STAFFORDSHIRE
ST16 3EH
+44 1785 272625
sds.uk@bostik.com

1.4. Emergency telephone number
+44 1785 272650 (24 Hours)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture
Classification (1999/45/EEC) Xi; R36/38. R43. N; R51/53.

2.2. Label elements
Contains BISPHENOL A - EPOXY RESINS, (Number Average Molecular Weight >700 - <1100)
BISPHENOL A-EPICHLOORHYDRIN EPOXY RESIN (NUMBER AV MW<700)
BISPHENOL F EPOXY RESIN

Labelling
Irritant
Dangerous for the environment

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
S2 Keep out of the reach of children.
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.
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.
ARALDITE PRECISION RESIN
S61 Avoid release to the environment. Refer to special instructions/safety data sheets.
P5 Contains epoxy constituents. See information supplied by the manufacturer.

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

<table>
<thead>
<tr>
<th>CAS-No.: 25068-38-6</th>
<th>EC No.: 500-033-5</th>
</tr>
</thead>
<tbody>
<tr>
<td>BISPHENOL A - EPOXY RESINS, (Number Average Molecular Weight &gt;700 - &lt;1100)</td>
<td>1-5%</td>
</tr>
<tr>
<td>Classification (EC 1272/2008)</td>
<td>Classification (67/548/EEC)</td>
</tr>
<tr>
<td>Skin Irrit. 2 - H315</td>
<td>Xi;R36/38.</td>
</tr>
<tr>
<td>Eye Irrit. 2 - H319</td>
<td>R43.</td>
</tr>
<tr>
<td>Skin Sens. 1 - H317</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS-No.: 25068-38-6</th>
<th>EC No.: 500-033-5</th>
</tr>
</thead>
<tbody>
<tr>
<td>BISPHENOL A-EPICHLOROHYDRIN EPOXY RESIN (NUMBER AV MW&lt;700)</td>
<td>60-100%</td>
</tr>
<tr>
<td>Classification (EC 1272/2008)</td>
<td>Classification (67/548/EEC)</td>
</tr>
<tr>
<td>Skin Irrit. 2 - H315</td>
<td>Xi;R36/38.</td>
</tr>
<tr>
<td>Eye Irrit. 2 - H319</td>
<td>N;R51/53.</td>
</tr>
<tr>
<td>Skin Sens. 1 - H317</td>
<td>R43.</td>
</tr>
<tr>
<td>Aquatic Chronic 2 - H411</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS-No.: 9003-36-5</th>
<th>EC No.:</th>
</tr>
</thead>
<tbody>
<tr>
<td>BISPHENOL F EPOXY RESIN</td>
<td>5-10%</td>
</tr>
<tr>
<td>Classification (EC 1272/2008)</td>
<td>Classification (67/548/EEC)</td>
</tr>
<tr>
<td>Skin Irrit. 2 - H315</td>
<td>Xi;R36/38.</td>
</tr>
<tr>
<td>Eye Irrit. 2 - H319</td>
<td>N;R51/53.</td>
</tr>
<tr>
<td>Skin Sens. 1 - H317</td>
<td>R43.</td>
</tr>
<tr>
<td>Aquatic Chronic 2 - H411</td>
<td></td>
</tr>
</tbody>
</table>

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation
Remove victim immediately from source of exposure. Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion
DO NOT induce vomiting. Get medical attention immediately.

Skin contact
Promptly flush contaminated skin with water. Promptly remove clothing if soaked through and flush the skin with water. Get medical attention if irritation persists after washing.

Eye contact
Rinse the eye with water immediately. Continue to rinse for at least 15 minutes and get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

4.3. Indication of any immediate medical attention and special treatment needed
ARALDITE PRECISION RESIN

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media
Extinguishing media
Use fire-extinguishing media appropriate for surrounding materials.

5.2. Special hazards arising from the substance or mixture
Specific hazards
Fire or high temperatures create: Toxic gases/vapours/fumes of: Carbon dioxide (CO2). Carbon monoxide (CO).

5.3. Advice for firefighters
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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
Avoid skin and eye contact. Ensure adequate ventilation.

6.2. Environmental precautions
Prevent entry into drains and water courses.

6.3. Methods and material for containment and cleaning up
Absorb in vermiculite, dry sand or earth and place into containers.

6.4. Reference to other sections

SECTION 7: HANDLING AND STORAGE

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

7.2. Conditions for safe storage, including any incompatibilities
Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.
Storage Class
Chemical storage.

7.3. Specific end use(s)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters
Ingredient Comments
WEL = Workplace Exposure Limits

8.2. Exposure controls
Protective equipment

Engineering measures
Provide adequate general and local exhaust ventilation.
Respiratory equipment
No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.
ARALDITE PRECISION RESIN

Hand protection
Protective gloves should be used if there is a risk of direct contact or splash. Use protective gloves made of: Nitrile.

Eye protection
Wear splash-proof eye goggles to prevent any possibility of eye contact.

Other Protection
Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact. Provide eyewash station.

Hygiene measures
DO NOT SMOKE IN WORK AREA! Wash hands 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. When using do not eat, drink or smoke.

SECTION 8: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Paste</td>
</tr>
<tr>
<td>Odour</td>
<td>Slight odour.</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble in water</td>
</tr>
<tr>
<td>Initial boiling point and boiling range (°C)</td>
<td>&gt;200</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.15 - 1.25 @ 25 °C</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>&lt; 0.1 Pa @ 20 °C</td>
</tr>
<tr>
<td>pH-Value, Conc. Solution</td>
<td>Approx 6</td>
</tr>
<tr>
<td>Viscosity</td>
<td>30 - 50 Pas @ 25 °C</td>
</tr>
<tr>
<td>Flash point (°C)</td>
<td>210 CC (Closed cup)</td>
</tr>
</tbody>
</table>

9.2. Other information

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

10.2. Chemical stability
Stable under normal temperature conditions.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid
Avoid contact with strong oxidisers. Avoid contact with acids and alkalis.

10.5. Incompatible materials

10.6. Hazardous decomposition products
Fire or high temperatures create: Carbon monoxide (CO). Carbon dioxide (CO2).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Inhalation
Vapour may irritate respiratory system or lungs.

Ingestion
May cause discomfort if swallowed.

Skin contact
Liquid may irritate skin. May cause sensitisation by skin contact.

Eye contact
Irritating to eyes.
ARALDITE PRECISION RESIN

SECTION 12: ECOLOGICAL INFORMATION

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

12.1. Toxicity

12.2. Persistence and degradability

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

SECTION 13: DISPOSAL CONSIDERATIONS

General information
This material is classified as special waste as defined by Special Waste Regulations 1996 and must be disposed of by an authorised contractor

13.1. Waste treatment methods
Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number
UN No. (ADR/RID/ADN) 3082
UN No. (IMDG) 3082
UN No. (ICAO) 3082

14.2. UN proper shipping name
Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BISPHENOL A-EPICHLOOROHYDRIN EPOXY RESIN (NUMBER AV MW<700), BISPHENOL F EPOXY RESIN)

14.3. Transport hazard class(es)
ADR/RID/ADN Class 9
ADR/RID/ADN Class Class 9: Miscellaneous dangerous substances and articles.
ADR Label No. 9
IMDG Class 9
ICAO Class/Division 9
Transport Labels

14.4. Packing group
ADR/RID/ADN Packing group III
ARALDITE PRECISION RESIN

IMDG Packing group III
ICAO Packing group III

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

14.6. Special precautions for use

EMS F-A, S-F
Emergency Action Code •3Z
Hazard No. (ADR) 90
Tunnel Restriction Code (E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Statutory Instruments
Approved Code Of Practice
Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply. Guidance Notes
Workplace Exposure Limits EH40. CHIP for everyone HSG(108).
EU Legislation

15.2. Chemical Safety Assessment

SECTION 16: OTHER INFORMATION

General information
This product should be used as directed by Bostik 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
NOTE: Lines within the margin indicate significant changes from the previous revision. 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 Limited.

Issued By Approved LJ
Revision Date March 2013
Revision 6
Date November 2004
Risk Phrases In Full
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.
ARALDITE PRECISION RESIN

Hazard Statements in Full

H319  Causes serious eye irritation.
H315  Causes skin irritation.
H317  May cause an allergic skin reaction.
H411  Toxic to aquatic life with long lasting effects.