SAFETY DATA SHEET
EPOXY RESIN PART A

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

1.1. Product identifier
Product name
EPOXY RESIN PART A
Product No.
ER2218A, EER2218RP250G, ZE

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses
Resin.
Uses advised against
At this moment in time we do not have information on use restrictions. They will be included in this safety data sheet when available.

1.3. Details of the supplier of the safety data sheet
Supplier
ELECTROLUBE. A division of HK WENTWORTH LTD
ASHBY PARK, COALFIELD WAY,
ASHBY DE LA ZOUCH, LEICESTERSHIRE
LE65 1JR
UNITED KINGDOM
+44 (0)1530 419600
+44 (0)1530 416640
info@hkw.co.uk

1.4. Emergency telephone number
+44 (0)1530 419600 between 8.30am - 5.00pm GMT Mon – Fri

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture
Classification (EC 1272/2008)
Physical and Chemical
Not classified.
Hazard
Human health
Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; Skin Sens. 1 - H317
Environment
Aquatic Chronic 2 - H411

Classification (1999/45/EEC)
Xi; R36/38. R43. N; R51/53.
The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Environment
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Use appropriate containment to avoid environmental contamination. Avoid release to the environment. Refer to special instructions/safety data sheets. Dispose of waste and residues in accordance with local authority requirements.

2.2. Label elements
Contains
EPOXY RESIN (Number average MW <= 700)
NEOPENTYL GLYCOL DIGLYCIDYL ETHER
[(2ETHYLHEXYL)OXY]METHYLOXIRANE

Label In Accordance With (EC) No. 1272/2008
Signal Word
Warning

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

Precautionary Statements
P273 Avoid release to the environment.
P280 Wear protective gloves, eye and face protection.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P313 Get medical advice/attention.

Supplementary Precautionary Statements
P302+352 IF ON SKIN: Wash with plenty of soap and water.
P332+313 If skin irritation occurs: Get medical advice/attention.

Supplemental label information
EUH205 Contains epoxy constituents. May produce an allergic reaction.

2.3. Other hazards
Not Classified as PBT/vPvB by current EU criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

<table>
<thead>
<tr>
<th>EPOXY RESIN (Number average MW &lt;= 700)</th>
<th>30-60%</th>
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<tbody>
<tr>
<td>CAS-No.: 25068-38-6</td>
<td>EC No.: 500-033-5</td>
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<tr>
<td>Classification (EC 1272/2008)</td>
<td>Classification (67/548/EEC)</td>
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<tr>
<td>Skin Irrit. 2 - H315</td>
<td>R43</td>
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<tr>
<td>Eye Irrit. 2 - H319</td>
<td>Xi;R36/38</td>
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<tr>
<td>Skin Sens. 1 - H317</td>
<td>N;R51/53</td>
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<tr>
<td>Aquatic Chronic 2 - H411</td>
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</table>

<table>
<thead>
<tr>
<th>NEOPENTYL GLYCOL DIGLYCIDYL ETHER</th>
<th>10-30%</th>
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<tr>
<td>CAS-No.: 17557-23-2</td>
<td>EC No.: 241-536-7</td>
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<table>
<thead>
<tr>
<th>[[2ETHYLHEXYL]OXY]METHYLOXIRANE</th>
<th>5-10%</th>
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<td>CAS-No.: 2461-15-6</td>
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<td></td>
<td>N;R51/53.</td>
</tr>
<tr>
<td></td>
<td>R43.</td>
</tr>
</tbody>
</table>
Composition Comments
Ingredients not listed are classified as non-hazardous or at a concentration below reportable levels.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation
Move the exposed person to fresh air at once. Keep the affected person warm and at rest. Get prompt medical attention.

Ingestion
DO NOT INDUCE VOMITING! Rinse mouth thoroughly. Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Get medical attention immediately!

Skin contact
Rinse the skin immediately with lots of water. Get medical attention if any discomfort continues.

Eye contact
Remove victim immediately from source of exposure. 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 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

Treat Symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media
Fire can be extinguished using: Foam. Alcohol resistant foam. Dry chemicals, sand, dolomite etc.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products
Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

Unusual Fire & Explosion Hazards
No unusual fire or explosion hazards noted.

5.3. Advice for firefighters

Special Fire Fighting Procedures
Use water to keep fire exposed containers cool and disperse vapours.

Protective equipment for fire-fighters
Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Do not discharge into drains, water courses or onto the ground.
6.3. Methods and material for containment and cleaning up

Absorb in vermiculite, dry sand or earth and place into containers. Wear necessary protective equipment. Wash thoroughly after dealing with a spillage.

6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. See section 11 for additional information on health hazards. The product contains a substance which is hazardous to aquatic organisms and which may cause long term adverse effects in the aquatic environment. See section 12 as well. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame.

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.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Ingredient Comments
No exposure limits noted for ingredient(s).

8.2. Exposure controls

Protective equipment

Process conditions
Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station.

Engineering measures
Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Respiratory equipment
In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment with combination filter (type A2/P3). EN14387

Hand protection
Protective gloves should be used if there is a risk of direct contact or splash. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Gloves of nitrile rubber, PVA or Viton are recommended. Gloves should conform to EN374

Eye protection
Wear approved chemical safety goggles where eye exposure is reasonably probable. EN166

Other Protection
Wear appropriate clothing to prevent any possibility of skin contact.

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. When using do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance
Liquid

Colour
Not entered.

Solubility
Insoluble in water
EPOXY RESIN PART A

Initial boiling point and boiling range (°C) >200 (>392 F)
Relative density 1.20 @ 20 °C (68 F)
Viscosity 600-800 @ 20 - 23°C (68-73.4 F)
Flash point (°C) >200 (>392 F) CC (Closed cup).

9.2. Other information

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity
No specific reactivity hazards associated with this product.

10.2. Chemical stability
Stable under normal temperature conditions.

10.3. Possibility of hazardous reactions
Not determined.

10.4. Conditions to avoid
Avoid contact with acids and oxidising substances.

10.5. Incompatible materials

Materials To Avoid
Strong acids. Strong alkalis.

10.6. Hazardous decomposition products

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Inhalation
No specific health warnings noted.

Ingestion
May cause stomach pain or vomiting.

Skin contact
Irritating to skin. May cause allergic contact eczema. May cause sensitisation by skin contact.

Eye contact
Irritating to eyes.

Health Warnings
EYES, NOSE AND MOUTH. Repeated exposure may cause chronic eye irritation. SKIN. Mild dermatitis, allergic skin rash. Defatting, drying and cracking of skin.

Route of entry
Ingestion. Skin and/or eye contact.

Toxicological information on ingredients.

EPOXY RESIN (Number average MW <= 700 ) (CAS: 25068-38-6)
Toxic Dose 1 - LD 50 >5000 mg/kg (oral rat)
Toxic Dose 2 - LD 50 >20000 mg/kg (oral rat)

N-METHYL-2-PYRROLIDONE (CAS: 872-50-4)
Toxic Dose 1 - LD 50 3914 mg/kg (oral rat)
EPOXY RESIN PART A
NEOPENTYL GLYCOL DIGLYCIDYL ETHER (CAS: 17557-23-2)

Toxic Dose 1 - LD 50
>2000 mg/kg (oral rat)

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity
Dangerous for the environment if discharged into watercourses.

12.1. Toxicity

Ecological information on ingredients.

**EPOXY RESIN (Number average MW <= 700) (CAS: 25068-38-6)**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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<td>LC 50, 96 Hrs, Fish mg/l</td>
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<tr>
<td>EC 50, 48 Hrs, Daphnia, mg/l</td>
<td>1.4 - 1.7</td>
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<tr>
<td>IC 50, 72 Hrs, Algae, mg/l</td>
<td>220</td>
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</table>

12.2. Persistence and degradability

Degradability
There are no data on the degradability of this product.

12.3. Bioaccumulative potential

Bioaccumulative potential
No data available on bioaccumulation.

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

<table>
<thead>
<tr>
<th>UN No. (ADR/RID/ADN)</th>
<th>3082</th>
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</thead>
<tbody>
<tr>
<td>UN No. (IMDG)</td>
<td>3082</td>
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<tr>
<td>UN No. (ICAO)</td>
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14.2. UN proper shipping name

<table>
<thead>
<tr>
<th>Proper Shipping Name</th>
<th>CONSUMER COMMODITY</th>
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<tr>
<td>Proper Shipping Name</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW &lt;= 700), [2ETHYLHEXYL]OXY]METHYLOXIRANE)</td>
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14.3. Transport hazard class(es)

<table>
<thead>
<tr>
<th>ADR/RID/ADN Class</th>
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<tbody>
<tr>
<td>ADR/RID/ADN Class</td>
<td>Class 9: Miscellaneous dangerous substances and articles.</td>
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<tr>
<td>ADR Label No.</td>
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<tr>
<td>IMDG Class</td>
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<tr>
<td>ICAO Class/Division</td>
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14.4. Packing group

ADR/RID/ADN Packing group  III
IMDG Packing group  III
ICAO Packing group  III

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

14.6. Special precautions for user

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

Guidance Notes
Workplace Exposure Limits EH40.

EU Legislation

Authorisations (Title VII Regulation 1907/2006)
No specific authorisations are noted for this product.

Restrictions (Title VIII Regulation 1907/2006)
No specific restrictions of use are noted for this product.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.
EPOXY RESIN PART A

SECTION 16: OTHER INFORMATION

Issued By: Helen O'Reilly
Revision Date: APRIL 2013
Revision: 1
SDS No.: 12860

Risk Phrases in Full

R36/38 Irritating to eyes and skin.
R36/37/38 Irritating to eyes, respiratory system and skin.
R38 Irritating to skin.
R61 May cause harm to the unborn child.
R43 May cause sensitisation by skin contact.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazard Statements in Full

H319 Causes serious eye irritation.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H360D May damage the unborn child.
H411 Toxic to aquatic life with long lasting effects.