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SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

- Product Name: Ultra-Cast XT Resin Component
- Chemical Name: Reaction product: bisphenol-A-(epichlorhydrin);
Epoxy resin (number average molecular weight \leq 700)
- CAS No.: 25068-38-6
- EC No.: 500-033-5
- REACH Registration Number: 01-2119456619-26-XXXX

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

- Use of the substance/mixture: Resin component
- Use advised against: No information available

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Eli-Chem Resins U.K Ltd
- Address of Supplier: Unit 212 Dunsfold Park
Cranleigh
Surrey
GU6 8GA
United Kingdom
- Telephone: 00 44 (0) 1483 26 66 36 or 37
- Fax: 00 44 (0) 1483 26 66 50
- Email: sales@elichem.co.uk
- Website: www.elichem.co.uk

1.4 Emergency telephone number

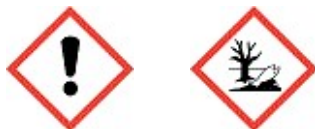
- Emergency Telephone: 00 44 (0) 1483 26 66 36 (Office hours only 09:00 - 17:00)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

- Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]: Skin Irrit. 2, H315; Skin Sens. 1, H317;
Eye Irrit. 2, H319; Aquatic Chronic 2, H411
- Additional information: For full text of Hazard- and EU Hazard-statements: see section 16

2.2 Label elements



- 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 protection/face protection.
 - P302+P352+P333+P313 - IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

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SECTION 2: Hazards identification (....)

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P501 - Dispose of contents/container to an authorised waste collection point

- Supplemental Hazard information (EU)
None

2.3 Other hazards

- Not a PBT according to REACH Annex XIII
- Not a vPvB according to REACH Annex XIII

SECTION 3: Composition/information on ingredients**3.1 Substances**

- Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700)
CAS No.: 25068-38-6
EC No.: 500-033-5
Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]: Skin Irrit. 2, H315; Skin Sens. 1, H317; Eye Irrit. 2, H319; Aquatic Chronic 2, H411
REACH Registration Number: 01-2119456619-26-XXXX

3.2 Mixtures

SECTION 4: First aid measures**4.1 Description of first aid measures**

- Contact with eyes
If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes
Remove contact lenses, if present and easy to do. Continue rinsing.
Irrigate eyes thoroughly whilst lifting eyelids
If eye irritation persists: Get medical advice/attention.
- Contact with skin
Remove contaminated clothing immediately and drench affected skin with plenty of water. Then wash with soap and water
Contaminated clothing should be laundered before reuse
If skin irritation or rash occurs: Get medical advice/attention.
- Ingestion
Rinse mouth with water (do not swallow)
Give plenty of water to drink
Do NOT induce vomiting.
IF exposed or concerned: Get medical advice/attention.
- Inhalation
Remove person to fresh air and keep comfortable for breathing.
Keep warm and at rest, in a half upright position. Loosen clothing
If breathing is difficult, oxygen should be given by a trained person
Get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

- Contact with eyes
Causes redness and irritation
- Contact with skin
Causes redness and irritation

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SECTION 4: First aid measures (....)

May cause an allergic skin reaction.
May cause skin sensitisation. Stop using product if skin sensitisation occurs.

- Ingestion
 - May cause stomach pain
 - May cause nausea/vomiting
- Inhalation
 - May cause respiratory irritation

4.3 Indication of any immediate medical attention and special treatment needed

- Treat symptomatically

SECTION 5: Firefighting measures**5.1 Extinguishing media**

- Suitable extinguishing media: In case of fire use water spray or fog, alcohol resistant foam, dry chemical or carbon dioxide
- Unsuitable extinguishing media: high volume water jet

5.2 Special hazards arising from the substance or mixture

- In a fire or if heated, a pressure increase will occur and the container may burst
- Gives off irritating or toxic fumes (or gases) in a fire.

5.3 Advice for firefighters

- Collect contaminated fire extinguishing water separately. This MUST not be discharged into drains. Prevent fire extinguishing water from contaminating surface or ground water.
- Special protective equipment: Wear self-contained breathing apparatus (SCBA). Wear full protective clothing including chemical protection suit.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

- Rescuers should take suitable precautions to avoid becoming casualties themselves
- No action shall be taken involving any personal risk or without suitable training
- Personal precautions for non-emergency personnel: Wear protective clothing as per section 8; Wash thoroughly after dealing with spillage; Eyewash bottles should be available; Contaminated clothing should be laundered before reuse
- Personal precautions for emergency responders: Wear chemical protection suit; Evacuate the area and keep personnel upwind; Wear self-contained breathing apparatus (SCBA); Wash thoroughly after dealing with spillage

6.2 Environmental precautions

- Avoid release to the environment.
- Do not allow to enter public sewers and watercourses
- If polluted water reaches drainage systems or water courses, immediately inform appropriate authorities

6.3 Methods and material for containment and cleaning up

- Stop leak if safe to do so.
- Absorb spillage in earth or sand
- Remove by mechanical means
- Place in appropriate container
- Remove contaminated material to safe location for subsequent disposal

6.4 Reference to other sections

- See section(s): 7,8 & 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Avoid breathing vapours, mist or gas
- Engineering controls should be provided to prevent the need for ventilation
- Do not get in eyes, on skin, or on clothing.
- Wear protective clothing as per section 8
- Contaminated clothing should be laundered before reuse
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Take action to prevent static discharges.
- Use good personal hygiene practices
- Wash thoroughly after handling.
- Eyewash bottles should be available

7.2 Conditions for safe storage, including any incompatibilities

- Store in a dry place. Store in a closed container.
- Store in a well-ventilated place. Keep cool.
- Keep only in original packaging.
- Protect from sunlight.
- Protect from freezing
- Keep away from heat and sources of ignition
- Keep out of reach of children
- Keep away from food, drink and animal feedingstuffs

7.3 Specific end use(s)

Resin component

SECTION 8: Exposure controls/personal protection

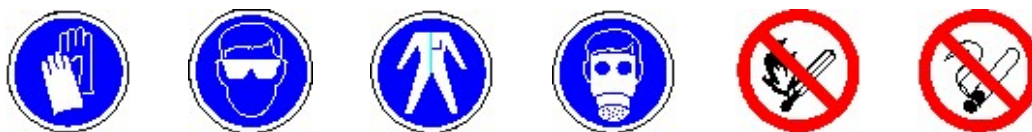
8.1 Control parameters

- No exposure limits have been set for this substance

8.2 Exposure controls

- Selection and use of personal protective equipment should be based on a risk assessment of exposure potential
- Engineering controls
Engineering controls should be provided to prevent the need for ventilation
Use local exhaust ventilation and/or enclosures.
- Respiratory protection
In case of insufficient ventilation, wear suitable respiratory equipment
- Skin protection
Wear suitable protective clothing
Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
The selection of a suitable glove depends on work conditions and whether the product is present on its own or in combination with other substances. Breakthrough time is dependent on the characteristics of the brand of glove used and the supplier should be consulted.
- Eye/face protection
Wear goggles giving complete eye protection approved to standard EN 166.
- Hygiene measures
Use good personal hygiene practices
Do not eat, drink or smoke when using this product.
Wash thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
Ensure eyewash stations and safety showers are nearby

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SECTION 8: Exposure controls/personal protection (....)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance: Liquid, white to yellow
- Odour: Perceptible odour
- Odour threshold: Not applicable
- pH: No information available
- Melting point/freezing point: -16 °C
- Initial boiling point and boiling range: > 200 °C @ 760 mm Hg
- Flashpoint: > 150 °C
- Evaporation Rate: No information available
- Flammability (solid,gas): No information available
- Upper/lower flammability or explosive limits: No information available
- Vapour Pressure: No information available
- Vapour Density: No information available
- Relative Density: 1.16 g/cm³ @ 20° C
- Solubility(ies): 3 mg/L @ 20 °C and pH 7
- Partition Coefficient (n-Octanol/Water): Log Pow 3.242
- Autoignition Temperature: No information available
- Decomposition temperature: No information available
- Viscosity: 12000 - 15000 cps @ 25° C
- Explosive Properties: No information available
- Oxidising Properties: Not oxidising

9.2 Other information

- No information available

SECTION 10: Stability and reactivity

10.1 Reactivity

- No information available

10.2 Chemical stability

- Considered stable under normal conditions

10.3 Possibility of hazardous reactions

- No hazardous reactions known if used for its intended purpose
- Hazardous polymerisation will not occur under normal conditions of storage and use

10.4 Conditions to avoid

- Keep away from heat and light
- Keep away from static electricity
- Avoid freezing

10.5 Incompatible materials

- Incompatible with oxidizing substances
- Incompatible with strong acids
- Incompatible with alkalis (strong bases)
- Incompatible with amines

10.6 Hazardous decomposition products

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SECTION 10: Stability and reactivity (....)

- Decomposition products may include carbon oxides
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SECTION 11: Toxicological information

11.1 Information on toxicological effects

- Acute Toxicity
Based on available data, the classification criteria are not met
LD50 (oral, rat): > 5 000 mg/kg
LD50 (dermal, rabbit) > 20 000 mg/kg bw
LC0 (inhalation, rat) : 0.00001 ppm/5 h
 - Skin corrosion/irritation
Causes skin irritation.
 - Serious eye damage/irritation
Causes serious eye irritation.
 - Respiratory or skin sensitisation
May cause an allergic skin reaction.
 - Germ cell mutagenicity
No evidence of mutagenic effects
 - Carcinogenicity
No evidence of carcinogenic effects
 - Reproductive toxicity
No evidence of reproductive effects
 - Specific target organ toxicity (STOT) - single exposure
Based on available data, the classification criteria are not met
 - Specific target organ toxicity (STOT) - repeated exposure
Based on available data, the classification criteria are not met
 - Aspiration hazard
Based on available data, the classification criteria are not met
 - Contact with eyes
Causes redness and irritation
 - Contact with skin
Causes redness and irritation
May cause an allergic skin reaction.
May cause skin sensitisation
 - Ingestion
May cause stomach pain
May cause nausea/vomiting
May cause gastro-intestinal irritation
 - Inhalation
May cause respiratory irritation
-

SECTION 12: Ecological information

12.1 Toxicity

- Toxic to aquatic life with long lasting effects.
- LC50 (fish) 3.1 mg/l (4 days)
- EC50 (Daphnia magna): 1.4 - 1.7 mg/l (48 hr)
- EC50 (aquatic invertebrates) 2 mg/l (48 hr)
- EC50 (aquatic algae) 9 mg/l (48 hr)

12.2 Persistence and degradability

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SECTION 12: Ecological information (....)

- Not readily biodegradable
- 12.3 Bioaccumulative potential
- Potential bioaccumulation
 - Partition coefficient : n-Octanol/water 3.242
- 12.4 Mobility in soil
- Insoluble in water
- 12.5 Results of PBT and vPvB assessment
- Not a PBT according to REACH Annex XIII
 - Not a vPvB according to REACH Annex XIII
- 12.6 Other adverse effects
- No information available
-

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
- Disposal should be in accordance with local, state or national legislation
 - Dispose of contents/container to an authorised waste collection point
 - This material and its container must be disposed of as hazardous waste
 - Do not discharge into drains or the environment, dispose to an authorised waste collection point
- 13.2 Classification
- The waste must be identified according to the List of Wastes (2000/532/EC)
 - Hazardous Property Code(s): HP 4 Irritant; HP 13 Sensitising; HP 14 Ecotoxic
-

SECTION 14: Transport information

- 14.1 UN number
- UN No.: 3082
- 14.2 UN proper shipping name
- Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Bisphenol-A Epoxy Resin)
- 14.3 Transport hazard class(es)
- Hazard Class: 9
- 14.4 Packing group
- Packing Group: III
- 14.5 Environmental hazards
- Marine pollutant
- 14.6 Special precautions for user
- No information available
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
- Not applicable
- 14.8 Road/Rail (ADR/RID)
-

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SECTION 14: Transport information (....)

- Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Bisphenol-A Epoxy Resin)
- ADR UN No.: 3082
- ADR Hazard Class: 9
- ADR Packing Group: III
- Tunnel Code: Not applicable

14.9 Sea (IMDG)

- Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Bisphenol-A Epoxy Resin)
- IMDG UN No.: 3082
- IMDG Hazard Class: 9
- IMDG Pack Group.: III

14.10 Air (ICAO/IATA)

- Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Bisphenol-A Epoxy Resin)
- ICAO UN No.: 3082
- ICAO Hazard Class: 9
- ICAO Packing Group: III

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

- This safety data sheet is provided in compliance with REACH Regulation (EC) No 1907/2006 as amended by Regulation (EU) 2015/830
- Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) applies in Europe

15.2 Chemical safety assessment

- A REACH chemical safety assessment has been carried out

SECTION 16: Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Sources of data: Information from published literature and supplier safety data sheets

Text not given with phrase codes where they are used elsewhere in this safety data sheet:

- 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

Acronyms

- CAS: Chemical Abstracts Service
- DNEL: Derived No-Effect Level
- EC: European Community
- EC50: Effective Concentration, 50%
- GHS: Globally Harmonised System
- LC50: Lethal Concentration, 50%

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SECTION 16: Other information (....)

- LD50: Lethal Dose, 50%
- NOEC: No observed effect concentration
- NOAEL: No observed adverse effect level
- OEL: Occupational Exposure Limit
- PBT: Persistent, Bioaccumulative and Toxic
- PNEC: Predicted No-Effect Concentration
- REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
- STOT RE: Specific Target Organ Toxicity Repeated Exposure
- STOT SE: Specific Target Organ Toxicity Single Exposure
- vPvB: very Persistent and very Bioaccumulative
- WEL: Workplace Exposure Limit

--- end of safety datasheet ---
