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SAFETY DATA SHEET

ALOCIT RESIN 28.95

Alocit International Ltd
is an A&E Group Company

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

1.1. Product identifier

Product name ALOCIT RESIN 28.95
Product No. AS30080B

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

Identified uses EPOXIDE RESIN COMPONENT OF TWO-PART COATING SYSTEM

1.3. Details of the supplier of the safety data sheet

Supplier ALOCIT INTERNATIONAL LTD, 3 Charles Wood Rd, Dereham, NR19 1SX UK
Phone: +44 (0)1362-694915 Fax: + 44 (0)1362-695350

1.4. Emergency telephone number

24 HR EMERGENCY TELEPHONE NUMBER - UK: 44 7825 987326 US: 1 800 535 5053

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (1999/45/EEC) Muta Cat. 3;R68. Xi;R36/38. R43. N;R51/53.

Human health

The liquid is irritating to eyes and skin.

Environment

The product contains a substance which is harmful to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

2.2. Label elements

Contains EPOXY RESIN (Number average MW \leq 700)
CRESYL GLYCIDYL ETHER

Labelling



Risk Phrases

R43 May cause sensitisation by skin contact, R36/38 Irritating to eyes and skin, R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment, R68 Possible risk of irreversible effects.

Note: all safety data refers to unmixed component of a two-component system. Mixed and cured epoxies are chemically inert

Safety Phrases

S25 Avoid contact with eyes, S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice, S36/37 Wear suitable protective clothing and gloves, S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible), S57 Use appropriate containment to avoid environmental contamination, S60 This material and its container must be disposed of as hazardous waste, 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

Not Classified as PBT/vPvB by current EU criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

EPOXY RESIN (Number average MW ≤ 700)

60-80%

CAS-No.: 25068-38-6 EC No.: 500-033-5

Classification (EC 1272/2008)

Skin Irrit. 2 - H315

Eye Irrit. 2 - H319

Skin Sens. 1 - H317

Aquatic Chronic 2 - H411

Classification (67/548/EEC)

R43

Xi;R36/38

N;R51/53

CRESYL GLYCIDYL ETHER

20-30%

CAS-No.: 26447-14-3 EC No.: 247-711-4

Classification (EC 1272/2008)

Skin Irrit. 2 - H315

Skin Sens. 1 - H317

Muta. 2 - H341

Aquatic Chronic 2 - H411

Classification (67/548/EEC)

Muta. Cat. 3;R68

R43

Xi;R38

N;R51/53

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: Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. When breathing is difficult, properly trained personnel may assist affected person by administering 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. Drink plenty of water. Get medical attention immediately!

Skin contact: 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 if any discomfort continues.

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Eye contact: Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention. Get medical attention promptly if symptoms occur after washing.

4 . 2 . Most important symptoms and effects , both acute and delayed

Inhalation: No specific symptoms noted.

Ingestion: No specific symptoms noted.

Skin contact: Prolonged skin contact may cause redness and irritation.

Eye contact: Irritating and may cause redness and pain.

4 . 3 . Indication of any immediate medical attention and special treatment needed

No specific first aid measures noted. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION 5: FIREFIGHTING MEASURES

5 . 1 . Extinguishing media

Extinguishing media: Water. Foam. Carbon dioxide (CO₂). Dry chemicals, sand, dolomite etc.

Unsuitable extinguishing media: Not known.

5 . 2 . Special hazards arising from the substance or mixture

Hazardous combustion products: Carbon dioxide (CO₂). Carbon monoxide (CO). Halogenated hydrocarbons.

Unusual Fire & Explosion Hazards: Fire causes formation of toxic gases.

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: Isolate area. Very toxic to aquatic organisms. Keep run-off water out of sewers and water sources. Dike for water control.

Protective equipment for fire-fighters: Self contained breathing apparatus and full protective clothing must be worn in case of fire. Face mask, protective gloves and safety helmet.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6 . 1 . Personal precautions, protective equipment and emergency procedures

For personal protection, see section 8. Keep unnecessary and unprotected personnel from entering the area. Avoid inhalation of vapours and aerosol spray. Isolate area.

6 . 2 . Environmental precautions

Avoid discharge into drains, water courses or onto the ground. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

6 . 3 . Methods and material for containment and cleaning up

Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Runoff or release to sewer, waterway or ground is forbidden. For waste disposal, see section 13.

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6 . 4 . Reference to other sections: Wear protective clothing as described in Section 8 of this safety data sheet. See section 11 for more detailed information on health effects and symptoms. Collect and dispose of spillage as indicated in section 13.

SECTION 7: HANDLING AND STORAGE

7 . 1 . Precautions for safe handling

Do not eat, drink or smoke when using the product. Persons susceptible to allergic reactions should not handle this product. Avoid contact with skin and eyes. Avoid inhalation of vapours and spray mists. Keep in original container. Store in tightly closed original container. Wear suitable protective clothing as protection against splashing or contamination.

7 . 2 . Conditions for safe storage , including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place.

Storage Class: Chemical storage.

7 . 3 . Specific end use

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

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8 . 1 . Control parameters

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

DNEL

Industry	Dermal	Short Term	Systemic Effects	8.3 mg/kg/day
Industry	Inhalation	Short Term	Systemic Effects	12.3 mg/m ³
Industry	Dermal	Long Term	Systemic Effects	8.3 mg/kg/day
Industry	Inhalation	Long Term	Systemic Effects	12.3 mg/m ³
Consumer	Dermal	Short Term	Systemic Effects	3.6 mg/kg/day
Consumer	Inhalation	Short Term	Systemic Effects	0.75 mg/m ³
Consumer	Oral	Short Term	Systemic Effects	0.75 mg/kg/day
Consumer	Dermal	Long Term	Systemic Effects	3.6 mg/kg/day
Consumer	Inhalation	Long Term	Systemic Effects	0.75 mg/m ³

PNEC

Freshwater		3 mg/l
Marinewater		0.3 mg/l
Sediment	(Freshwater)	0.5 mg/kg
Sediment	(Marinewater)	0.5 mg/kg
Intermittent release		0.013 mg/l

8 . 2 . Exposure controls

Protective equipment



Process conditions: Provide eyewash station.

Engineering measures: Provide adequate general and local exhaust ventilation.

Respiratory equipment: Wear suitable respiratory protection. Check that mask fits tightly and change filter regularly.

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Hand protection: Chemical resistant gloves required for prolonged or repeated contact. Use suitable protective gloves if risk of skin contact.

Eye protection: Wear approved safety goggles.

Other Protection: AVOID ALL SKIN AND RESPIRATORY CONTACT! Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures: 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.

Skin protection: Wear apron or protective clothing in case of splashes.

Environmental Exposure Controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9 . 1 . Information on basic physical and chemical properties

Appearance	Clear paste or liquid
Colour	Clear
Odour	Slight odour.
Initial boiling point & boiling range	Not determined.
Melting point	Not determined.
Vapour density (air=1)	Not determined.
Vapour pressure	Not determined.
Evaporation rate	Not determined.
Viscosity	Not determined.
Flash point (°C)	> 1500
Flammability Limit - Lower(%)	Not determined.

9 . 2 . Other information

No information required.

SECTION 10: STABILITY AND REACTIVITY

10 . 1 . Reactivity: Stable under normal temperature conditions and recommended use.

10 . 2 . Chemical stability: No particular stability concerns.

10 . 3 . Possibility of hazardous reactions: Hazardous reactions or instability may occur under certain conditions of storage or use.

10 . 4 . Conditions to avoid: Avoid exposing to heat and contact with strong oxidising substances. Avoid heat, flames and other sources of ignition.

10 . 5 . Incompatible materials

Materials To Avoid: Strong oxidising substances.

10 . 6 . Hazardous decomposition products: Toxic gases/vapours/fumes of: Carbon dioxide (CO₂). Carbon monoxide (CO).

Note: all safety data refers to unmixed component of a two-component system. Mixed and cured epoxies are chemically inert

SECTION 11: TOXICOLOGICAL INFORMATION

11 . 1 . Information on toxicological effects

Inhalation: Vapour may irritate respiratory system or lungs.

Ingestion: Liquid irritates mucous membranes and may cause abdominal pain if swallowed.

Skin contact: Irritating to skin. May cause sensitisation by skin contact.

Eye contact: Irritation of eyes and mucous membranes.

Toxicological information on ingredients .

CRESYL GLYCIDYL ETHER (CAS : 26447 - 14 - 3)

Acute toxicity :

Acute Toxicity (Oral LD50) 2150 mg/kg Rat

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

Toxic Dose 1 - LD 50 30, 000 mg/kg (oral rat)

Toxic Dose 2 - LD 50 2, 000 mg/kg (dermal rabbit)

Acute toxicity :

Acute Toxicity (Inhalation LC50) Not applicable.

Respiratory or skin sensitisation :

Respiratory sensitisation Not applicable.

Severe skin irritation.

Carcinogenicity :

Carcinogenicity Not applicable.

Reproductive Toxicity :

Reproductive Toxicity - Fertility Not applicable.

Specific target organ toxicity - single exposure :

STOT - Single exposure Not applicable.

Specific target organ toxicity - repeated exposure :

STOT - Repeated exposure NOAEL 100 mg/kg Dermal Rat

Aspiration hazard :

Skin contact Not a skin sensitiser.

No specific health warnings noted.

SECTION 12: ECOLOGICAL INFORMATION

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

12 . 1 . Toxicity

Ecological information on ingredients .

CRESYL GLYCIDYL ETHER (CAS : 26447 - 14 - 3)

Acute Toxicity - Fish LC50 96 hours 13 mg/l Fish

Acute Toxicity - Aquatic Invertebrates EC50 48 hours 16 mg/l Daphnia magna

Note: all safety data refers to unmixed component of a two-component system. Mixed and cured epoxies are chemically inert

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

Acute Toxicity - Fish	LC50 96 hours 1.3 mg/l Onchorhynchus mykiss (Rainbow trout)
Acute Toxicity - Aquatic Invertebrates	EC50 48 hours 2.1 mg/l Daphnia magna

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

Mobility: No data available.

12 . 5 . Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

12 . 6 . Other adverse effects

Not known.

SECTION 13: DISPOSAL CONSIDERATIONS

General information: Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

13 . 1 . Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. Do not allow runoff to sewer, waterway or ground.

Waste Class

EWC NUMBER : Allocation of a waste code number in accordance with the European Waste Catalogue, should be carried out in agreement with an EA authorised waste disposal company.

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. (EPOXY RESIN (Number average MW < = 700))

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

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Transport Label (containers over 5 litres):



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 MARPOL 73 / 78 and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION

15 . 1 . Safety , health and environmental regulations / legislation specific for the substance or mixture

Uk Regulatory References: Chemicals (Hazard Information & Packaging) Regulations,

Approved Code Of Practice: Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

EU Legislation: Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

15 . 2 . Chemical Safety Assessment

Not applicable.

SECTION 16: OTHER INFORMATION

Revision Date	31/08/2014
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Note: all safety data refers to unmixed component of a two-component system. Mixed and cured epoxies are chemically inert

Risk Phrases In Full:

R36/38	Irritating to eyes and skin.
R38	Irritating to skin.
R43	May cause sensitisation by skin contact.
R68	Possible risk of irreversible effects.
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.
H341	Suspected of causing genetic defects.
H411	Toxic to aquatic life with long lasting effects.

Uncured Resin: All risk statements refer to unmixed resin product. Users should check MSDS for hardener before mixing and be aware that, once resin and hardener are mixed and cured, product is inert.

Cured product: Cured epoxy products are inert and relatively harmless, traces of residual components may be left on the surface. Abrading will generate particles that should not be inhaled or ingested. Wet surfaces where possible before abrading. Provide ventilation, wear a suitable mask, gloves and cover exposed skin to prevent contact with the dust.

All information is based on results gained from experience and tests and is believed to be accurate but is given without acceptance of liability for loss or damage attributable to reliance thereon as conditions of use lie outside our control. Users should always carry out sufficient tests to establish the suitability of any products for their intended applications. All goods supplied subject to AIL General Conditions of sale.

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