



SAFETY DATA SHEET ALOCIT 28.15 TROPICAL GRADE

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

1.1. Product identifier

Product name ALOCIT TROPICAL 28.15 GRADE

Product number ALOCIT TROP

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

Identified uses RESIN COMPONENT OF 2 PART EPOXY COATING SYSTEM

1.3. Details of the supplier of the safety data sheet

Supplier: ALOCIT INTERNATIONAL LTD, 3 CHARLES WOOD ROAD, DEREHAM, NR19 1SX UK
Phone: +44 (0)1362-694915 Fax: + 44 (0)1362-695350

1.4. Emergency telephone number

24 HR EMERGENCY TELEPHONE NUMBER:

| | |
|------|--------------------|
| AUS: | 61 (0) 400844736 |
| UK: | 44 (0) 7825 987326 |
| US: | 1 800 535 5053 |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317

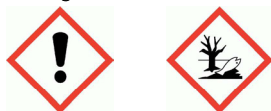
Environmental hazards Aquatic Chronic 2 - H411

Human health The liquid is irritating to eyes and skin.

Environmental 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

Pictogram



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.

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.

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Precautionary statements

P261 Avoid breathing vapour/ spray.
 P264 Wash contaminated skin thoroughly after handling.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P321 Specific treatment (see medical advice on this label).
 P332+P313 If skin irritation occurs: Get medical advice/ attention.
 P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
 P337+P313 If eye irritation persists: Get medical advice/ attention.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P391 Collect spillage.
 P501 Dispose of contents/ container in accordance with national regulations.

Contains

BISPHENOL A-(EPICHLORHYDRIN) {REACTION PRODUCT}, FATTY ACIDS, C18, UNSATD., DIMERS, REACTION PRODUCT WITH N,N-DIMETHYL-1,3-PROPANEDIAMINE AND 1,3-PROPANEDIAMINE

2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

| | | | |
|---|----------------------|--|--------|
| BISPHENOL A-(EPICHLORHYDRIN) {REACTION PRODUCT} | | | 30-60% |
| CAS number: 25068-38-6 | EC number: 500-033-5 | REACH registration number: 01-2119456619-26-0000 | |
| Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411 | | | |
| FATTY ACIDS, C18, UNSATD., DIMERS, REACTION PRODUCT WITH N,N-DIMETHYL-1,3-PROPANEDIAMINE AND 1,3-PROPANEDIAMINE | | | <1% |
| CAS number: 162627-17-0 | EC number: 605-296-0 | | |
| Classification Skin Sens. 1 - H317 | | | |
| 1-METHOXY-2-PROPANOL | | | <1% |
| CAS number: 107-98-2 | EC number: 203-539-1 | | |
| Classification Flam. Liq. 3 - H226 STOT SE 3 - H336 | | | |

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The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------|--|
| Inhalation | Move affected person to fresh air at once. If breathing stops, provide artificial respiration. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Keep affected person warm and at rest. Get medical attention immediately. |
| Ingestion | Do not induce vomiting. Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention immediately. |
| Skin contact | Remove affected person from source of contamination. Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues. |
| Eye contact | Remove any contact lenses and open eyelids wide apart. 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 known. |
| Ingestion | No specific symptoms known. |
| Skin contact | Prolonged skin contact may cause redness and irritation. |
| Eye contact | Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain. |

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

| | |
|-----------------------------|---|
| Notes for the doctor | No specific recommendations. 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

| | |
|---------------------------------------|---|
| Suitable 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

| | |
|--------------------------------------|--|
| Specific hazards | Fire or high temperatures create: Toxic gases/vapours/fumes of: Carbon dioxide (CO2). Carbon monoxide (CO). Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours. |
| Hazardous combustion products | Carbon dioxide (CO2). Carbon monoxide (CO). Halogenated hydrocarbons. |

5.3. Advice for firefighters

| | |
|--|---|
| Protective actions during firefighting | Isolate area. Very toxic to aquatic organisms. Control run-off water by containing and keeping it out of sewers and watercourses. |
| Special protective equipment for firefighters | Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Use air-supplied respirator, gloves and protective goggles. |

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions For personal protection, see Section 8. Keep unnecessary and unprotected personnel from entering the area. Avoid inhalation of vapours. Isolate area.

6.2. Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Avoid the spillage or runoff entering drains, sewers or watercourses. For waste disposal, see Section 13.

6.4. Reference to other sections

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. Collect and dispose of spillage as indicated in Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions 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 only in the 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

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

Storage class Chemical storage.

7.3. Specific end use(s)

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

Occupational exposure limits

1-METHOXY-2-PROPANOL

Long-term exposure limit (8-hour TWA): WEL 100 ppm 375 mg/m³

Short-term exposure limit (15-minute): WEL 150 ppm 560 mg/m³

Sk

WEL = Workplace Exposure Limit

Sk = Can be absorbed through skin.

BISPHENOL A-(EPICHLORHYDRIN) {REACTION PRODUCT} (CAS: 25068-38-6)

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| | |
|-------------|---|
| DNEL | <p>Industry - Dermal; Short term systemic effects: 8.3 mg/kg/day</p> <p>Industry - Inhalation; Short term systemic effects: 12.3 mg/m³</p> <p>Industry - Dermal; Long term systemic effects: 8.3 mg/kg/day</p> <p>Industry - Inhalation; Long term systemic effects: 12.3 mg/m³</p> <p>Consumer - Dermal; Short term systemic effects: 3.6 mg/kg/day</p> <p>Consumer - Inhalation; Short term systemic effects: 0.75 mg/m³</p> <p>Consumer - Oral; Short term systemic effects: 0.75 mg/kg/day</p> <p>Consumer - Dermal; Long term systemic effects: 3.6 mg/kg/day</p> <p>Consumer - Inhalation; Long term systemic effects: 0.75 mg/m³</p> |
|-------------|---|

| | |
|-------------|---|
| PNEC | <p>- Fresh water; 3 mg/l</p> <p>- Marine water; 0.3 mg/l</p> <p>- Sediment (Freshwater); 0.5 mg/kg</p> <p>- Sediment (Marinewater); 0.5 mg/kg</p> <p>- Intermittent release; 0.013 mg/l</p> |
|-------------|---|

BORCHIGEN ND (CAS: 94200-24-5)

| | |
|----------------------------|---------------------------------|
| Ingredient comments | WEL = Workplace Exposure Limits |
|----------------------------|---------------------------------|

1-METHOXY-2-PROPANOL (CAS: 107-98-2)

| | |
|----------------------------|---------------------------------|
| Ingredient comments | WEL = Workplace Exposure Limits |
|----------------------------|---------------------------------|

| | |
|-------------|---|
| DNEL | <p>Industry - Inhalation; Short term : 553.5 mg/m³</p> <p>Industry - Inhalation; Long term : 369 mg/m³</p> <p>Industry - Dermal; Long term : 50.6 mg/m³</p> <p>Consumer - Inhalation; Long term : 43.9 mg/m³</p> <p>Consumer - Dermal; Long term : 18.1 mg/m³</p> <p>Consumer - Oral; Long term : 3.3 mg/m³</p> |
|-------------|---|

| | |
|-------------|--|
| PNEC | <p>- Fresh water; 10 mg/l</p> <p>- Sediment; 41.6 mg/kg</p> <p>- Soil; 2.47 mg/kg</p> <p>- STP; 100 mg/l</p> |
|-------------|--|

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

Eye/face protection

The following protection should be worn: Chemical splash goggles.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.

Other skin and body protection

AVOID ALL SKIN AND RESPIRATORY CONTACT! Wear appropriate clothing to prevent any possibility of skin contact. Wear apron or protective clothing in case of contact.

Hygiene measures

Provide eyewash station. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

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| | |
|--|--|
| Respiratory protection | If ventilation is inadequate, suitable respiratory protection must be worn. Check that the respirator fits tightly and the filter is changed regularly. |
| 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 | Coloured paste. or Liquid. |
| Colour | Variable |
| Odour | Slight. |
| Melting point | Not determined. |
| Initial boiling point and range | Not determined. |
| Flash point | >1500°C |
| Evaporation rate | Not determined. |
| Upper/lower flammability or explosive limits | Not determined. |
| Vapour pressure | Not determined. |
| Vapour density | Not determined. |
| Viscosity | Not determined. |

9.2. Other information

| | |
|--------------------------|--------------------------|
| Other information | No information required. |
|--------------------------|--------------------------|

SECTION 10: Stability and reactivity

10.1. Reactivity

| | |
|-------------------|---|
| Reactivity | Stable at normal ambient temperatures and when used as recommended. |
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10.2. Chemical stability

| | |
|------------------|-----------------------------------|
| Stability | No particular stability concerns. |
|------------------|-----------------------------------|

10.3. Possibility of hazardous reactions

| | |
|---|--|
| Possibility of hazardous reactions | Hazardous reactions or instability may occur under certain conditions of storage or use. |
|---|--|

10.4. Conditions to avoid

| | |
|----------------------------|--|
| Conditions to avoid | Avoid heat. Avoid contact with the following materials: Strong oxidising agents. Avoid heat, flames and other sources of ignition. |
|----------------------------|--|

10.5. Incompatible materials

| | |
|---------------------------|--------------------------|
| Materials to avoid | Strong oxidising agents. |
|---------------------------|--------------------------|

10.6. Hazardous decomposition products

| | |
|---|--|
| Hazardous decomposition products | Toxic gases/vapours/fumes of: Carbon dioxide (CO ₂). Carbon monoxide (CO). |
|---|--|

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|---------------------|--|
| Inhalation | Vapour may irritate respiratory system/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.

BISPHENOL A-(EPICHLORHYDRIN) {REACTION PRODUCT}

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 11,400.0

Species Rat

ATE oral (mg/kg) 11,400.0

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Not applicable.

Skin sensitisation

Skin sensitisation 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

Skin contact Not a skin sensitiser.

Eye contact No specific health hazards known.

FATTY ACIDS, C18, UNSATD., DIMERS, REACTION PRODUCT WITH N,N-DIMETHYL-1,3-PROPANEDIAMINE AND 1,3-PROPANEDIAMINE

Toxicological effects No information available.

SECTION 12: Ecological Information

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

12.1. Toxicity

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Ecological information on ingredients.

BISPHENOL A-(EPICHLORHYDRIN) {REACTION PRODUCT}

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

Persistence and 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

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects Not known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. Avoid the spillage or runoff entering drains, sewers or watercourses.

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

Road transport notes SP375 – These substances when carried in Single or Combination packaging's containing a net Qty per single or inner packaging of 5ltr or less for liquids or having a net mass per single or inner packaging of 5kg or less for solids, are not subject to any provisions of ADR provided the packaging's meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8

Sea transport notes Chapter 2.10 – 2.10.2.7 – Marine Pollutants packaged in Single or Combination packaging's containing a net Qty per single or inner packaging of 5ltr or less for liquids or having a net mass per single or inner packaging of 5kg or less for solids, are not subject to any other provisions of this code relevant to Marine Pollutants, provided the packaging's meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. In the case of Marine Pollutants also meeting the Criteria for inclusion in another class, all provisions of this code relevant to any additional hazards continue to apply

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Air transport notes

A197 - These substances when carried in Single or Combination packaging's containing a net Qty per single or inner packaging of 5ltr or less for liquids or having a net mass per single or inner packaging of 5kg or less for solids, are not subject to any other provisions of these regulations provided the packaging's meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8

14.1. UN number

| | |
|------------------|------|
| UN No. (ADR/RID) | 3082 |
| UN No. (IMDG) | 3082 |
| UN No. (ICAO) | 3082 |

14.2. UN proper shipping name

| | |
|--------------------------------|--|
| Proper shipping name (ADR/RID) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700), SOLVENT NAPHTHA (PETROLEUM)) |
| Proper shipping name (IMDG) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700), SOLVENT NAPHTHA (PETROLEUM)) |
| Proper shipping name (ICAO) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700), SOLVENT NAPHTHA (PETROLEUM)) |
| Proper shipping name (ADN) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700), SOLVENT NAPHTHA (PETROLEUM)) |

14.3. Transport hazard class(es)

| | |
|---------------------|---|
| ADR/RID class | 9 |
| ADR/RID label | 9 |
| IMDG class | 9 |
| ICAO class/division | 9 |

Transport labels



14.4. Packing group

| | |
|-----------------------|-----|
| ADR/RID 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 |

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Hazard Identification Number 90
(ADR/RID)

Tunnel restriction code (E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

**Annex II of MARPOL 73/78
and the IBC Code**

SECTION 15: Regulatory information

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

National regulations The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

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) (as amended).
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 (as amended).

Guidance Safety Data Sheets for Substances and Preparations.
Approved Classification and Labelling Guide (Sixth edition) L131.

15.2. Chemical safety assessment

Not applicable.

SECTION 16: Other information

Revision date 12/04/2017

Revision 2

Supersedes date 04/08/2016

Hazard statements in full H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
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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