

## SAFETY DATA SHEET

### ALOCIT 28.15 TROPICAL:

BLACK; WHITE; GREY KN104 / RAL 7004

Alocit International Ltd  
is an A&E Group Company  
[www.ae-sys.com](http://www.ae-sys.com)



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

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### 1.1. Product identifier

**Product name:** ALOCIT 28.15 TROPICAL

### 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 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 - UK: 44 7825 987326 US: 1 800 535 5053

## SECTION 2: HAZARDS IDENTIFICATION

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### 2.1. Classification of the substance or mixture

**Classification (1999/45/EEC):** Xi; R36/38. R43. N;R51/53.

**Human health:** The liquid is irritating to eyes and skin.

**Environment:** The unmixed 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:** 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

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

## Safety Phrases

S24/25 Avoid contact with eyes.  
S37 Wear suitable gloves  
S57 Use appropriate containment to avoid environmental contamination  
S61 Avoid release to the environment.  
Refer to special instructions/safety data sheets.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S60 This material and its container must be disposed of as hazardous waste.  
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

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### 3.2. Mixtures

#### **EPOXY RESIN 40-50%**

(Number average MW <= 700 )

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

#### **FATTY ACIDS, C18, UNSATD., < 1%**

#### **DIMERS, REACTION PRODUCT**

#### **WITH N,N-DIMETHYL-1, 3-PROPANEDIAMINE AND 1,3-PROPANEDIAMINE**

CAS-No.: 162627-17-0

EC No.: 605-296-0

Classification (EC 1272/2008)

Skin Sens. 1 - H317

Classification (67/548/EEC)

R43.

#### **1-METHOXY-2-PROPANOL < 1%**

CAS-No.: 107-98-2

EC No.: 203-539-1

Classification (67/548/EEC)

Flam. Liq. 3 - H226

STOT SE 3 - H336

Classification (EC 1272/2008)

R10

R67

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

## SECTION 4: FIRST AID MEASURES

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### 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!

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**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.

**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

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#### 5.1. Extinguishing media

**Extinguishing media:** Water. Foam. Carbon dioxide (CO<sub>2</sub>). 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 (CO<sub>2</sub>). 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 (CO<sub>2</sub>). 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

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#### 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.

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### 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. Run-off or release to sewer, waterway or ground is forbidden. For waste disposal, see section 13.

### 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

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### 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(s)

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

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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### 8.1. Control parameters

WEL = Workplace Exposure Limit. Sk = Can be absorbed through skin

Name	STD	TWA - 8 Hrs	STEL - 15 Min	Notes
1-METHOXY-2-PROPANOL	WEL	100 ppm 375 mg/m <sup>3</sup>	150 ppm 560 mg/m <sup>3</sup>	Sk

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

#### DNEL

Industry	Inhalation.	Short Term	553.5	mg/m <sup>3</sup>
Industry	Inhalation.	Long Term	369	mg/m <sup>3</sup>
Industry	Dermal	Long Term	50.6	mg/m <sup>3</sup>
Consumer	Inhalation.	Long Term	43.9	mg/m <sup>3</sup>
Consumer	Dermal	Long Term	18.1	mg/m <sup>3</sup>
Consumer	Oral	Long Term	3.3	mg/m <sup>3</sup>

#### PNEC

Freshwater	10	mg/l
Sediment	41.6	mg/kg
Soil	2.47	mg/kg
STP	100	mg/l

*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)

### DNEL

Industry	Dermal	Short Term	Systemic Effects	8.3 mg/kg/day
Industry	Inhalation.	Short Term	Systemic Effects	12.3 mg/m <sup>3</sup>
Industry	Dermal	Long Term	Systemic Effects	8.3 mg/kg/day
Industry	Inhalation.	Long Term	Systemic Effects	12.3 mg/m <sup>3</sup>
Consumer	Dermal	Short Term	Systemic Effects	3.6 mg/kg/day
Consumer	Inhalation.	Short Term	Systemic Effects	0.75 mg/m <sup>3</sup>
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 <sup>3</sup>

### PNEC

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

BORCHIGEN ND (CAS: 94200-24-5)

## 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 mask fits tightly & change filter regularly.

**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

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### 9.1. Information on basic physical and chemical properties

**Appearance:** Coloured paste or Liquid

**Colour:** Variable

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

<b>Odour:</b>	Slight odour.
<b>Initial boiling point and boiling range (°C):</b>	Not determined.
<b>Melting point (°C):</b>	Not determined.
<b>Vapour density (air=1):</b>	Not determined.
<b>Vapour pressure:</b>	Not determined.
<b>Evaporation rate:</b>	Not determined.
<b>Viscosity:</b>	Not determined.
<b>Flash point (°C):</b>	>1500
<b>Flammability Limit - Lower(%):</b>	Not determined.

## 9.2. Other information

No information required.

## SECTION 10: STABILITY AND REACTIVITY

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### 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 (CO<sub>2</sub>). Carbon monoxide (CO).

## SECTION 11: TOXICOLOGICAL INFORMATION

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### 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.

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

## Toxicological information on ingredients.

EPOXY RESIN (Number average MW  $\leq$  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.

**Eye contact:** No specific health warnings noted.

FATTY ACIDS, C18, UNSATD., DIMERS, REACTION PRODUCT WITH N,N-DIMETHYL-1,3-PROPANEDIAMINE AND 1,3-PROPANEDIAMINE (CAS: 162627-17-0)

**Toxicological information:** No information available.

## SECTION 12: ECOLOGICAL INFORMATION

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

### 12.1. Toxicity

#### Ecological information on ingredients

EPOXY RESIN (Number average MW  $\leq$  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 is 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.

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## SECTION 13: DISPOSAL CONSIDERATIONS

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**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

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### 14.1. UN number

**UN No:** (ADR/RID/ADN) - 3082 (IMDG - 3082 (ICAO) - 3082

### 14.2. UN proper shipping name

**Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN) (Number average MW  $\leq$  700 ), SOLVENT NAPHTHA (PETROLEUM))

### 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 (5 litre containers and over):



### 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

Not applicable.

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## SECTION 15: REGULATORY INFORMATION

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### 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

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Revision Date 31/08/2015 Revision 11 Supersedes date 20/09/2013

**Risk Phrases In Full:** R10 Flammable; 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; R67 Vapours may cause drowsiness and dizziness;

**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.

Alocit Systems products are manufactured and distributed by the A&E Group

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