# SAFETY DATA SHEET
# ALOCIT 28.15 TROPICAL BLACK

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

### 1.1. Product identifier

**Product name** ALOCIT 28.15 TROPICAL BLACK

**Product number** AS29461D

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

**Identified uses** COLOURING OF EPOXIDE COMPOUNDS & SYSTEMS

### 1.3. Details of the supplier of the safety data sheet

**Supplier**
ALOCIT USA
1128 South West Street, Indianapolis, Indiana 46225.
+1 317 631-9100
ALOCIT INTERNATIONAL
3 Charles Wood Road, Dereham, UK NR19 1SX
+44 1362 694915

### 1.4. Emergency telephone number

**Emergency telephone** 24 HR EMERGENCY TELEPHONE NUMBER : US +1 800 535 5053 UK + 44 (0) 7930 595916

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification (SI 2019 No. 720)**

**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

**Hazard pictograms**

**Signal word** Warning

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

# ALOCIT 28.15 TROPICAL BLACK

| | |
|---|---|
| **Precautionary statements** | P261 Avoid breathing vapour/ spray.<br>P264 Wash contaminated skin thoroughly after handling.<br>P272 Contaminated work clothing should not be allowed out of the workplace.<br>P273 Avoid release to the environment.<br>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.<br>P302+P352 IF ON SKIN: Wash with plenty of water.<br>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P321 Specific treatment (see medical advice on this label).<br>P332+P313 If skin irritation occurs: Get medical advice/ attention.<br>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.<br>P337+P313 If eye irritation persists: Get medical advice/ attention.<br>P362+P364 Take off contaminated clothing and wash it before reuse.<br>P391 Collect spillage.<br>P501 Dispose of contents/ container in accordance with national regulations. |
| **Supplemental label information** | EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. |
| **Contains** | reaction product: bisphenol-A-(epichlorhydrin), 2,3-EPOXYPROPYL O-TOLYL ETHER, 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 UK criteria.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

**reaction product: bisphenol-A-(epichlorhydrin)** **30-60%**

CAS number: 25068-38-6 EC number: 500-033-5

**Classification**
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
Skin Sens. 1 - H317
Aquatic Chronic 2 - H411

**BARIUM SULPHATE** **10-30%**

CAS number: 7727-43-7 EC number: 231-784-4

**Classification**
Not Classified

**CARBON BLACK** **1-5%**

CAS number: 1333-86-4 EC number: 215-609-9

**Classification**
Not Classified

# ALOCIT 28.15 TROPICAL BLACK

**2,3-EPOXYPROPYL O-TOLYL ETHER** **<1%**

CAS number: 2210-79-9 EC number: 218-645-3

**Classification**
Skin Irrit. 2 - H315
Skin Sens. 1 - H317
Muta. 2 - H341
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. 1A - 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

**CYCLOHEXANONE** **<1%**

CAS number: 108-94-1 EC number: 203-631-1

**Classification**
Flam. Liq. 3 - H226
Acute Tox. 4 - H332

**Solvent naphtha (petroleum), light arom.** **<1%**

CAS number: 64742-95-6 EC number: 918-668-5

**Classification**
Muta. 1B - H340
Carc. 1B - H350
Asp. Tox. 1 - H304

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

**Composition comments** This mixture contains ≥ 1% Titanium Dioxide (CAS 13463-67-7) The Annex VI classification of Titanium Dioxide does not apply to this mixture according to its Note 10.

## 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.

# ALOCIT 28.15 TROPICAL BLACK

**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.

## 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.

# ALOCIT 28.15 TROPICAL BLACK

### 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 this product. Persons susceptible to allergic reactions should not handle this product. Avoid contact with skin and eyes. Avoid inhalation of vapours and spray/mists. 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

**BARIUM SULPHATE**

Long-term exposure limit (8-hour TWA): 4 mg/m³ respirable dust
Long-term exposure limit (8-hour TWA): 10 mg/m³ inhalable dust

**CARBON BLACK**

# ALOCIT 28.15 TROPICAL BLACK

Argentina 3.5, TWA
Australia 3.0, TWA, inhalable
Belgium 3.6, TWA
Brazil 3.5, TWA
Canada (Ontario) 3.0 TWA, inhalable
China 4.0, TWA 8.0, TWA, STEL (15 min)
Colombia 3.0, TWA, inhalable
Czech Republic 2.0, TWA
Egypt 3.5, TWA
Finland 3.5, TWA; 7.0, STEL
France – INRS 3.5, TWA/VME inhalable
Germany – BeKGS527 0.5, TWA, respirable; 2.0, TWA, inhalable (DNEL values)
Hong Kong 3.5, TWA
Indonesia 3.5, TWA/NABs
Ireland 3.5, TWA; 7.0, STEL
Italy 3.5, TWA, inhalable
Japan – MHLW 3.0
Japan – SOH 4.0, TWA; 1.0, TWA, respirable
Korea 3.5, TWA
Malaysia 3.5, TWA
Mexico 3.5, TWA
Russia 4.0, TWA
Spain 3.5, TWA (VLA-ED)
Sweden 3.0, TWA
United Kingdom 3.5, TWA, inhalable; 7.0, STEL, inhalable
EU REACH DNEL 2.0, TWA, inhalable; 0.5, TWA respirable
United States 3.5, TWA, OSHA-PEL
3.0, TWA, ACGIH-TLV®, inhalable
3.5, TWA, NIOSH-REL

**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

**CYCLOHEXANONE**

Long-term exposure limit (8-hour TWA): WEL 10 ppm(Sk)
Short-term exposure limit (15-minute): WEL 20 ppm(Sk)

**Solvent naphtha (petroleum), light arom.**

Long-term exposure limit (8-hour TWA): SUP 25 ppm 100 mg/m³
Short-term exposure limit (15-minute): SUP No std. No std.

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

**reaction product: bisphenol-A-(epichlorhydrin) (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/m³
Industry - Dermal; Long term systemic effects: 8.3 mg/kg/day
Industry - Inhalation; Long term systemic effects: 12.3 mg/m³
Consumer - Dermal; Short term systemic effects: 3.6 mg/kg/day
Consumer - Inhalation; Short term systemic effects: 0.75 mg/m³
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/m³

# ALOCIT 28.15 TROPICAL BLACK

**PNEC**

- Fresh water; 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

**BARIUM SULPHATE (CAS: 7727-43-7)**

**DNEL**

Workers - Inhalation; Long term systemic effects: 10 mg/m³
Workers - Inhalation; Long term local effects: 10 mg/m³
Consumer - Inhalation; Long term systemic effects: 10 mg/m³
Consumer - Oral; Long term systemic effects: 13000 mg/kg

**PNEC**

Fresh water; 115 µg/l
STP; 62.2 mg/l
Sediment (Freshwater); 600.4 mg/kg
Soil; 207.7 mg/kg

**C.I. PIGMENT BLACK 11 (CAS: 1317-61-9)**

**Ingredient comments**

No exposure limits known for ingredient(s).

**DNEL**

Workers - Inhalation; Long term systemic effects: 10 mg/m³
Workers - Inhalation; Long term local effects: 10 mg/m³

**CARBON BLACK (CAS: 1333-86-4)**

**DNEL**

Workers - Inhalation; Long term : 0.5 mg/m³, respirable fraction
Workers - Inhalation; Long term : 2 mg/m³, inhalable fraction

**BENTONE SD3 (CAS: 121888-67-3)**

**Ingredient comments**

No exposure limits known for ingredient(s).

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

**Ingredient comments**

WEL = Workplace Exposure Limits

**DNEL**

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

**PNEC**

- Fresh water; 10 mg/l
- Sediment; 41.6 mg/kg
- Soil; 2.47 mg/kg
- STP; 100 mg/l

**Solvent naphtha (petroleum), light arom. (CAS: 64742-95-6)**

**DNEL**

Industry - Dermal; Long term systemic effects: 25 mg/kg/day
Industry - Inhalation; Long term systemic effects: 150 mg/m³
Consumer - Inhalation; Long term systemic effects: 32 mg/m³
Consumer - Dermal; Long term systemic effects: 11 mg/kg/day
Consumer - Oral; Long term systemic effects: 11 mg/kg/day

# ALOCIT 28.15 TROPICAL BLACK

## 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. Do not eat, drink or smoke when using this product. |
| **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. |
| **Odour threshold** | No information available. |
| **pH** | No information available. |
| **Melting point** | Not determined. |
| **Initial boiling point and range** | Not determined. |
| **Flash point** | >1500°C |
| **Evaporation rate** | Not determined. |
| **Evaporation factor** | No information available. |
| **Flammability (solid, gas)** | No information available. |
| **Upper/lower flammability or explosive limits** | Not determined. |
| **Other flammability** | No information available. |
| **Vapour pressure** | Not determined. |
| **Vapour density** | Not determined. |

# ALOCIT 28.15 TROPICAL BLACK

| | |
|---|---|
| **Relative density** | No information available. |
| **Bulk density** | No information available. |
| **Solubility(ies)** | No information available. |
| **Partition coefficient** | No information available. |
| **Auto-ignition temperature** | No information available. |
| **Decomposition Temperature** | No information available. |
| **Viscosity** | Not determined. |
| **Explosive properties** | No information available. |
| **Explosive under the influence of a flame** | Not considered to be explosive. |
| **Oxidising properties** | Not available. |

### 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. |

### 10.2. Chemical stability

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

### 10.3. Possibility of hazardous reactions

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

### 10.4. Conditions to avoid

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

### 10.5. Incompatible materials

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

### 10.6. Hazardous decomposition products

| | |
|---|---|
| **Hazardous decomposition products** | Thermal decomposition or combustion products may include the following substances: Toxic gases/vapours/fumes of: Carbon dioxide (CO2). Carbon monoxide (CO). |

## 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.**

# ALOCIT 28.15 TROPICAL BLACK

**reaction product: bisphenol-A-(epichlorhydrin)**

**Acute toxicity - oral**

| | |
|---|---|
| **Acute toxicity oral ($LD_{50}$ mg/kg)** | 15,000.0 |
| **Species** | Rat |
| **ATE oral (mg/kg)** | 15,000.0 |

**Acute toxicity - dermal**

| | |
|---|---|
| **Acute toxicity dermal ($LD_{50}$ mg/kg)** | 23,032.0 |
| **Species** | Rabbit |
| **ATE dermal (mg/kg)** | 23,032.0 |

**Acute toxicity - inhalation**

| | |
|---|---|
| **Notes (inhalation $LC_{50}$)** | Not applicable. |

**Serious eye damage/irritation**

| | |
|---|---|
| **Serious eye damage/irritation** | Causes serious eye irritation. |

**Skin sensitisation**

| | |
|---|---|
| **Skin sensitisation** | Irritating to skin. Prolonged skin contact may cause redness and irritation. May cause sensitisation by skin contact. |

**Carcinogenicity**

| | |
|---|---|
| **Carcinogenicity** | Not applicable. |

**Reproductive toxicity**

| | |
|---|---|
| **Reproductive toxicity - fertility** | Fertility - NOAEL 750 mg/kg/day, Oral, Rat |
| **Reproductive toxicity - development** | Developmental toxicity: - NOAEL: 180 mg/kg/day, Oral, Rat |

**Specific target organ toxicity - single exposure**

| | |
|---|---|
| **STOT - single exposure** | Not applicable. |

**Specific target organ toxicity - repeated exposure**

| | |
|---|---|
| **STOT - repeated exposure** | Not applicable. |

**CARBON BLACK**

**Acute toxicity - oral**

| | |
|---|---|
| **Notes (oral $LD_{50}$)** | $LD_{50}$ >8000 mg/kg, Oral, Rat |

**Germ cell mutagenicity**

| | |
|---|---|
| **Summary** | In vivo mutagenicity in rats occurs by mechanisms secondary to a threshold effect and is a consequence of “lung overload,” which leads to chronic inflammation and the release of genotoxic oxygen species. This mechanism is considered to be a secondary genotoxic effect and, thus, carbon black itself would not be considered to be mutagenic. |

# ALOCIT 28.15 TROPICAL BLACK

**Genotoxicity - in vitro** Carbon black is not suitable to be tested directly in bacterial (Ames test) and other in vitro systems because of its insolubility. However, when organic solvent extracts of carbon black have been tested, results showed no mutagenic effects. Organic solvent extracts of carbon black can contain traces of polycyclic aromatic hydrocarbons (PAHs). A study to examine the bioavailability of these PAHs showed that they are very tightly bound to carbon black and are not bioavailable (Borm, 2005).

**Genotoxicity - in vivo** In an experimental investigation, mutational changes in the hprt ene were reported in alveolar epithelial cells in the rat following inhalation exposure to carbon black (Driscoll, 1997). This observation is considered to be rat-specific and a consequence of “lung overload,” which leads to chronic inflammation and release of reactive oxygen species. This is considered to be a secondary genotoxic effect and, thus, carbon black itself would not be considered to be mutagenic.

**Carcinogenicity**

**IARC carcinogenicity** IARC Group 2B Possibly carcinogenic to humans.

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

**Toxicological effects** No information available.

**Acute toxicity - oral**

**Notes (oral $LD_{50}$)** $LD_{50}$ >10000 mg/kg, Oral, Rat

**Skin corrosion/irritation**

**Skin corrosion/irritation** Not irritating.

**Serious eye damage/irritation**

**Serious eye damage/irritation** Not irritating.

**Skin sensitisation**

**Skin sensitisation** May cause sensitisation by skin contact.

**Germ cell mutagenicity**

**Genotoxicity - in vitro** Negative.

**Reproductive toxicity**

**Reproductive toxicity - fertility** Fertility - NOAEL >1000 mg/kg, Oral, Rat F1

## 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.**

**reaction product: bisphenol-A-(epichlorhydrin)**

**Acute aquatic toxicity**

**Acute toxicity - fish** $EC_{50}$, 96 hours: 3.6 mg/l, Oncorhynchus mykiss (Rainbow trout)

# ALOCIT 28.15 TROPICAL BLACK

| | |
|---|---|
| **Acute toxicity - aquatic invertebrates** | $EC_{50}$, 48 hours: 1.8 mg/l, Daphnia magna |
| **Acute toxicity - aquatic plants** | $EC_{50}$, 72 hours: 11 mg/l, Scenedesmus subspicatus |

Chronic aquatic toxicity

| | |
|---|---|
| **Chronic toxicity - fish early life stage** | Not available. |
| **Chronic toxicity - aquatic invertebrates** | Not available. |

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

Acute aquatic toxicity

| | |
|---|---|
| **Acute toxicity - fish** | $LD_{50}$, 48 hours: >150 mg/l, Leuciscus idus (Golden orfe) |
| **Acute toxicity - aquatic invertebrates** | EL50, 48 hours: >100 mg/l, Daphnia magna |
| **Acute toxicity - aquatic plants** | ErL50, 72 hours: >100 mg/l, Pseudokirchneriella subcapitata |
| **Acute toxicity - microorganisms** | $IC_{50}$, 16 hours: >430 mg/l, Pseudomonas putida |

Chronic aquatic toxicity

| | |
|---|---|
| **Chronic toxicity - aquatic invertebrates** | EL50, 21 days: >100 mg/l, Daphnia magna |

## 12.2. Persistence and degradability

**Persistence and degradability** There are no data on the degradability of this product.

Ecological information on ingredients.

reaction product: bisphenol-A-(epichlorhydrin)

| | |
|---|---|
| **Persistence and degradability** | Not readily biodegradable. |

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

| | |
|---|---|
| **Persistence and degradability** | Not readily biodegradable. |

## 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

**Partition coefficient** No information available.

Ecological information on ingredients.

reaction product: bisphenol-A-(epichlorhydrin)

| | |
|---|---|
| **Bioaccumulative potential** | The product is not bioaccumulating. |

# ALOCIT 28.15 TROPICAL BLACK

**Partition coefficient** log Pow: 3.242

### 12.4. Mobility in soil

**Mobility** No data available.

**Ecological information on ingredients.**

**reaction product: bisphenol-A-(epichlorhydrin)**

**Mobility** No data available.

**Surface tension** 60 mN/m @ 20°C

### 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 UK criteria.

**Ecological information on ingredients.**

**reaction product: bisphenol-A-(epichlorhydrin)**

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

### 12.6. Other adverse effects

**Other adverse effects** Not known.

**Ecological information on ingredients.**

**reaction product: bisphenol-A-(epichlorhydrin)**

**Other adverse effects** None 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

# ALOCIT 28.15 TROPICAL BLACK

| | |
|---|---|
| **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 |
| **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 ), CRESYL GLYCIDYL ETHER) |
| **Proper shipping name (IMDG)** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700 ), CRESYL GLYCIDYL ETHER) |
| **Proper shipping name (ICAO)** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700 ), CRESYL GLYCIDYL ETHER) |
| **Proper shipping name (ADN)** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700 ), CRESYL GLYCIDYL ETHER) |

## 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

# ALOCIT 28.15 TROPICAL BLACK

**Environmentally hazardous substance/marine pollutant**

### 14.6. Special precautions for user

| | |
|---|---|
| **EmS** | F-A, S-F |
| **Emergency Action Code** | 3Z |
| **Hazard Identification Number (ADR/RID)** | 90 |
| **Tunnel restriction code** | (E) |

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

| | |
|---|---|
| **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

| | |
|---|---|
| **National regulations** | Control of Substances Hazardous to Health Regulations 2002 (as amended). |
| **EU legislation** | Commission Regulation (EU) 2015/830 of 28 May 2015 amending 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. |
| **Guidance** | A guide to local exhaust ventilation (LEV) HSG258 (as ammended)<br>Workplace Exposure Limits EH40. |

### 15.2. Chemical safety assessment

Not applicable.

## SECTION 16: Other information

| | |
|---|---|
| **Revision date** | 23/06/2022 |
| **Revision** | 11 |
| **Supersedes date** | 07/11/2019 |
| **Hazard statements in full** | H226 Flammable liquid and vapour.<br>H315 Causes skin irritation.<br>H317 May cause an allergic skin reaction.<br>H319 Causes serious eye irritation.<br>H332 Harmful if inhaled.<br>H336 May cause drowsiness or dizziness.<br>H341 Suspected of causing genetic defects.<br>H411 Toxic to aquatic life with long lasting effects. |

# ALOCIT 28.15 TROPICAL BLACK