



alocitsystems

**SAFETY DATA SHEET
ALOCIT 28.14 PRIMER DARK GREY**

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

1.1. Product identifier

Product name ALOCIT 28.14 PRIMER DARK GREY

Product number AS30545B

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 Muta. 2 - H341

Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

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.
H341 Suspected of causing genetic defects.
H410 Very toxic to aquatic life with long lasting effects.

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Precautionary statements

P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 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.
 P308+P313 IF exposed or concerned: Get medical advice/ attention.
 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.
 P405 Store locked up.
 P501 Dispose of contents/ container in accordance with national regulations.

Contains

reaction product: bisphenol-A-(epichlorhydrin), 2,3-EPOXYPROPYL O-TOLYL ETHER, bis-[4-(2,3-epoxipropoxy)phenyl]propane, Formaldehyde, polymer with (chloromethyl)oxirane and phenol, mw <=700, FATTY ACIDS, C18, UNSATD., DIMERS, REACTION PRODUCT WITH N,N-DIMETHYL-1,3-PROPANEDIAMINE AND 1,3-PROPANEDIAMINE, oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

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

ZINC POWDER - ZINC DUST (STABILISED)

10-30%

CAS number: 7440-66-6	EC number: 231-175-3
M factor (Acute) = 1	M factor (Chronic) = 1

Classification

Aquatic Acute 1 - H400
 Aquatic Chronic 1 - H410

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2,3-EPOXYPROPYL O-TOLYL ETHER	5-10%
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	
RED OXIDE C.I. PIGMENT RED 101	<1%
CAS number: 1309-37-1	EC number: 215-168-2
Classification Not Classified	
bis-[4-(2,3-epoxipropoxy)phenyl]propane	<1%
CAS number: 1675-54-3	EC number: 216-823-5
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411	
silica (quartz)	<1%
CAS number: 7631-86-9	EC number: 231-545-4
Classification Not Classified	
Formaldehyde, polymer with (chloromethyl)oxirane and phenol, mw <=700	<1%
CAS number: 9003-36-5	EC number: 500-006-8
Classification Skin Irrit. 2 - H315 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. 1A - H317	

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oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	<1%
CAS number: 68609-97-2	
Classification Skin Irrit. 2 - H315 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	
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.

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.
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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.
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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.

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

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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

RED OXIDE C.I. PIGMENT RED 101

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

Long-term exposure limit (8-hour TWA): WEL 5 mg/m³ fume

Short-term exposure limit (15-minute): WEL 10 mg/m³ fume
as Fe

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

silica (quartz)

Long-term exposure limit (8-hour TWA): WEL 2.4 mg/m³ respirable dust

Long-term exposure limit (8-hour TWA): WEL 6 mg/m³ inhalable dust

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

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- 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

BENTONE SD3 (CAS: 121888-67-3)

Ingredient comments No exposure limits known for ingredient(s).

RED OXIDE C.I. PIGMENT RED 101 (CAS: 1309-37-1)

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

bis-[4-(2,3-epoxipropoxy)phenyl]propane (CAS: 1675-54-3)

- DNEL**
- Workers - Dermal; Short term systemic effects: 8.3 mg/kg, bw/day
 - Workers - Inhalation; Short term systemic effects: 12.3 mg/m³
 - Workers - Dermal; Long term systemic effects: 8.3 mg/kg, bw/day
 - Workers - Inhalation; Long term systemic effects: 12.3 mg/m³
 - General population - Dermal; Short term systemic effects: 3.6 mg/kg, bw/day
 - General population - Inhalation; Short term systemic effects: 0.75 mg/m³
 - General population - Oral; Short term systemic effects: 0.75 mg/kg, bw/day
 - General population - Dermal; Long term systemic effects: 3.6 mg/kg, bw/day
 - General population - Inhalation; Long term systemic effects: 0.75 mg/m³
 - General population - Oral; Long term systemic effects: 0.75 mg/kg, bw/day

- PNEC**
- Fresh water; 3 µg/l
 - marine water; 0.3 µg/l
 - STP; 10 mg/l
 - Sediment (Freshwater); 0.5 mg/kg
 - Sediment (Marinewater); 0.5 mg/kg
 - Sediment; 0.05 mg/kg
 - Intermittent release; 0.013 mg/l

Formaldehyde, polymer with (chloromethyl)oxirane and phenol, mw <=700 (CAS: 9003-36-5)

- DNEL**
- Industry - Dermal; Short term local effects: 8.3 ppm
 - Industry - Dermal; Long term systemic effects: 104.15 mg/kg/day
 - Industry - Inhalation; Long term systemic effects: 29.39 mg/m³
 - Consumer - Dermal; Long term systemic effects: 62.5 mg/kg/day
 - Consumer - Inhalation; Long term systemic effects: 8.7 mg/m³
 - Consumer - Oral; Long term systemic effects: 6.25 mg/kg/day

- PNEC**
- Fresh water; 0.003 mg/l
 - marine water; 0.0003 mg/l
 - Sediment (Freshwater); 0.294 mg/kg
 - Sediment (Marinewater); 0.0294 mg/kg
 - Soil; 0.237 mg/kg
 - Intermittent release; 0.0254

oxirane, mono[(C12-14-alkyloxy)methyl] derivs. (CAS: 68609-97-2)

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DNEL	Workers - Inhalation; Long term systemic effects: 3.6 mg/m ³ Workers - Dermal; Long term systemic effects: 1 mg/kg/day General population - Inhalation; Long term systemic effects: 0.87 mg/m ³ General population - Dermal; Long term systemic effects: 0.5 mg/kg/day General population - Oral; Long term systemic effects: 0.5 mg/kg/day
PNEC	Fresh water; 0.106 mg/l Fresh water, Intermittent release; 0.072 mg/l marine water; 0.011 mg/l STP; 10 mg/l Sediment (Freshwater), dw; 307.16 mg/kg Sediment (Marinewater), dw; 30.72 mg/kg Soil, dw; 1.234 mg/kg

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

Ingredient comments	WEL = Workplace Exposure Limits
DNEL	Industry - Inhalation; Short term : 553.5 mg/m ³ Industry - Inhalation; Long term : 369 mg/m ³ Industry - Dermal; Long term : 50.6 mg/m ³ Consumer - Inhalation; Long term : 43.9 mg/m ³ Consumer - Dermal; Long term : 18.1 mg/m ³ Consumer - Oral; Long term : 3.3 mg/m ³
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/m ³ Consumer - Inhalation; Long term systemic effects: 32 mg/m ³ Consumer - Dermal; Long term systemic effects: 11 mg/kg/day Consumer - Oral; Long term systemic effects: 11 mg/kg/day
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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.

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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.
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.

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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 instability 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.

reaction product: bisphenol-A-(epichlorhydrin)

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 15,000.0

Species Rat

ATE oral (mg/kg) 15,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 23,032.0

Species Rabbit

ATE dermal (mg/kg) 23,032.0

Acute toxicity - inhalation

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Notes (inhalation LC₅₀) 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.

2,3-EPOXYPROPYL O-TOLYL ETHER

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 2150 mg/kg, Oral, Rat

Skin corrosion/irritation

Skin corrosion/irritation Irritating to skin. Mucous membranes

Serious eye damage/irritation

Serious eye damage/irritation Not irritating.

Skin sensitisation

Skin sensitisation Sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Suspected of causing genetic defects.

bis-[4-(2,3-epoxypropoxy)phenyl]propane

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 11400 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >2000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Unlikely to be hazardous by inhalation because of the low vapour pressure of the product at ambient temperature.

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Skin corrosion/irritation

Skin corrosion/irritation Irritating to skin.

Serious eye damage/irritation

Serious eye damage/irritation Causes eye irritation.

Respiratory sensitisation

Respiratory sensitisation May cause sensitisation or allergic reactions in sensitive individuals.

Skin sensitisation

Skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Genotoxicity - in vivo Based on available data the classification criteria are not met.

Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

Formaldehyde, polymer with (chloromethyl)oxirane and phenol, mw <=700

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ >2000 mg/kg, Oral, Rat

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Not applicable.

Specific target organ toxicity - single exposure

STOT - single exposure Not available.

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 LD₅₀) LD₅₀ >10000 mg/kg, Oral, Rat

Skin corrosion/irritation

Skin corrosion/irritation Not irritating.

Serious eye damage/irritation

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Serious eye damage/irritation	Not irritating.
<u>Skin sensitisation</u>	
Skin sensitisation	May cause sensitisation by skin contact.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Negative.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Fertility - NOAEL >1000 mg/kg, Oral, Rat F1

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

<u>Acute toxicity - oral</u>	
Acute toxicity oral (LD₅₀ mg/kg)	17,100.0
Species	Rat
ATE oral (mg/kg)	17,100.0
<u>Acute toxicity - dermal</u>	
Notes (dermal LD₅₀)	Not applicable.
<u>Acute toxicity - inhalation</u>	
Notes (inhalation LC₅₀)	Not applicable.
<u>Skin corrosion/irritation</u>	
Animal data	Moderately irritating.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Causes serious eye irritation.
<u>Skin sensitisation</u>	
Skin sensitisation	Severe skin irritation.

SECTION 12: Ecological information

Ecotoxicity	Dangerous for the environment. May cause long-term adverse effects in the aquatic environment.
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Ecological information on ingredients.

2,3-EPOXYPROPYL O-TOLYL ETHER

Ecotoxicity	The product contains a substance which is toxic to aquatic organisms.
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bis-[4-(2,3-epoxypropoxy)phenyl]propane

Ecotoxicity	Toxic to aquatic life.
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12.1. Toxicity

Ecological information on ingredients.

reaction product: bisphenol-A-(epichlorhydrin)

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Acute aquatic toxicity

Acute toxicity - fish EC₅₀, 96 hours: 3.6 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 1.8 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: 11 mg/l, Scenedesmus subspicatus

Chronic aquatic toxicity

Chronic toxicity - fish early life stage Not available.

Chronic toxicity - aquatic invertebrates Not available.

ZINC POWDER - ZINC DUST (STABILISED)

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Chronic aquatic toxicity

M factor (Chronic) 1

2,3-EPOXYPROPYL O-TOLYL ETHER

Toxicity Toxic to aquatic life. Fish

Acute aquatic toxicity

Acute toxicity - fish EC₅₀, 96 hours: 2.8 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 3.3 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: 5.1 mg/l, Selenastrum capricornutum

bis-[4-(2,3-epoxypropoxy)phenyl]propane

Toxicity WGK 2

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 1.3 mg/l, Fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 2.1 mg/l, Ceriodaphnia dubia (water flea)

Acute toxicity - aquatic plants EC₅₀, 72 hours: 11 mg/l, Algae

Formaldehyde, polymer with (chloromethyl)oxirane and phenol, mw ≤700

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 2.54 mg/l, Fish

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Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 2.55 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: >1000 mg/l, Algae

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

Acute aquatic toxicity

Acute toxicity - fish LD₅₀, 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 IC₅₀, 16 hours: >430 mg/l, Pseudomonas putida

Chronic aquatic toxicity

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

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: > 1.8 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 7.2 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: ~ 844 mg/l, Freshwater algae

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.

2,3-EPOXYPROPYL O-TOLYL ETHER

Persistence and degradability No information available.

bis-[4-(2,3-epoxipropoxy)phenyl]propane

Biodegradation Not readily biodegradable.

Formaldehyde, polymer with (chloromethyl)oxirane and phenol, mw <=700

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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.

Partition coefficient log Pow: 3.242

2,3-EPOXYPROPYL O-TOLYL ETHER

Bioaccumulative potential Not expected to be readily biodegradable.

bis-[4-(2,3-epoxipropoxy)phenyl]propane

Bioaccumulative potential log Pow: 2.65 - 3.78, BCF: 3 - 31 31.00,

Formaldehyde, polymer with (chloromethyl)oxirane and phenol, mw <=700

Bioaccumulative potential log Pow: 3.3, BCF: 150 150.00,

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

2,3-EPOXYPROPYL O-TOLYL ETHER

Mobility No information 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 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.

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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
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. (Bisphenol A)
Proper shipping name (IMDG)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol A)
Proper shipping name (ICAO)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol A)

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Proper shipping name (ADN) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol A)

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
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).

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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)
Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

Not applicable.

SECTION 16: Other information

Revision date 22/06/2022

Revision 11

Supersedes date 31/01/2020

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.
H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.
H341 Suspected of causing genetic defects.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.

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