

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

1.1. Product identifier

Product form : Article
Product name : Altro Tect Vertical Clear Base
Product code : TTVC2B000
Product group : End product

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

1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use
Use of the substance/mixture : Epoxy Base - Industrial flooring & wall coatings

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer

Altro Resin Systems
Unit 3 Station Road Industrial Estate
Station Road
GB- DT2 0AE Maiden Newton Dorchester
T 01300 320620
sds@altro.com - www.altro.com

1.4. Emergency telephone number

Emergency number : 01462 480480
Monday - Friday 09:00 - 17:00

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to GB CLP (SI 2019:720 as amended)

Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Skin sensitisation, Category 1	H317
Reproductive toxicity, Category 1B	H360D
Hazardous to the aquatic environment – Chronic Hazard, Category 2	H411

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to GB CLP (SI 2019:720 as amended)

Hazard pictograms (GB CLP) :



Signal word (GB CLP) : Danger
Contains : N-METHYL-2-PYRROLIDONE; BENZYL ALCOHOL; Bisphenol-A-(epichlorohydrin) EPOXY RESIN (Number average MW ≤ 700)
Hazard statements (GB CLP) : H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.

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Precautionary statements (GB CLP)	: H319 - Causes serious eye irritation. H360D - May damage the unborn child. H411 - Toxic to aquatic life with long lasting effects. P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P261 - Avoid breathing fume, vapours. P264 - Wash hands thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment.
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2.3. Other hazards

Results of PBT and vPvB assessment

This substance does not meet the PBT criteria of UK REACH regulation, annex XIII

This substance does not meet the vPvB criteria of UK REACH regulation, annex XIII

Component	
Substance(s) not meeting the PBT criteria of UK REACH regulation, in accordance with Annex XIII	N-METHYL-2-PYRROLIDONE (872-50-4), BENZYL ALCOHOL (100-51-6), 2-METHOXY-1-METHYLETHYL ACETATE (108-65-6), Aerosil R208 (67762-90-7)
Substance(s) not meeting the vPvB criteria of UK REACH regulation, in accordance with Annex XIII	N-METHYL-2-PYRROLIDONE (872-50-4), BENZYL ALCOHOL (100-51-6), 2-METHOXY-1-METHYLETHYL ACETATE (108-65-6), Aerosil R208 (67762-90-7)

Results of Endocrine Disruptor assessment

The substance is not included in the list established in accordance with Article 59(1) of UK REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in GB BPR and GB PPP

Component	
Substance(s) not considered as endocrine disrupting. They are not included in the list established in accordance with Article 59(1) of UK REACH for having endocrine disrupting properties, nor identified as having endocrine disrupting properties in accordance with the criteria set out in GB BPR and GB PPP	BENZYL ALCOHOL(100-51-6), Aerosil R208(67762-90-7), N-METHYL-2-PYRROLIDONE(872-50-4), 2-METHOXY-1-METHYLETHYL ACETATE(108-65-6)

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to GB CLP (SI 2019:720 as amended)
Bisphenol-A-(epichlorohydrin) EPOXY RESIN (Number average MW ≤ 700)	CAS-No.: 25068-38-6 EC-No.: 500-033-5	≥ 75	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411
BENZYL ALCOHOL	CAS-No.: 100-51-6 EC-No.: 202-859-9 UK Index-No.: 603-057-00-5	≥ 10 – < 15	Acute Tox. 4 (Oral), H302 (ATE=1200 mg/kg bodyweight) Eye Irrit. 2, H319 Skin Sens. 1B, H317
1-Methoxypropan-2-ol substance with workplace exposure limit(s)	CAS-No.: 107-98-2 EC-No.: 203-539-1 UK Index-No.: 603-064-00-3	≥ 3 – < 5	Flam. Liq. 3, H226 STOT SE 3, H336
Aerosil R208 substance with workplace exposure limit(s)	CAS-No.: 67762-90-7	≥ 1 – < 3	Not classified

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Name	Product identifier	%	Classification according to GB CLP (SI 2019:720 as amended)
N-METHYL-2-PYRROLIDONE substance listed on UK REACH candidate (1-Methyl-2-pyrrolidone (NMP)) substance with workplace exposure limit(s)	CAS-No.: 872-50-4 EC-No.: 212-828-1 UK Index-No.: 606-021-00-7	≥ 1 – < 3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 1B, H360D STOT SE 3, H335
2-METHOXY-1-METHYLETHYL ACETATE substance with workplace exposure limit(s)	CAS-No.: 108-65-6 EC-No.: 203-603-9 UK Index-No.: 607-195-00-7	< 0.1	Flam. Liq. 3, H226 STOT SE 3, H336

Specific concentration limits:

Name	Product identifier	Specific concentration limits (%)
N-METHYL-2-PYRROLIDONE	CAS-No.: 872-50-4 EC-No.: 212-828-1 UK Index-No.: 606-021-00-7	(10 ≤ C ≤ 100) STOT SE 3; H335

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Take off all contaminated clothing and wash its before reuse.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Take off contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Immediately rinse with water for a prolonged period while holding the eyelids wide open. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Do not induce vomiting. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation	: May cause irritation to the respiratory tract. May cause a feeling of tightness in the chest, exposure may cause coughing or wheezing.
Symptoms/effects after skin contact	: May cause an allergic skin reaction. irritation (itching, redness, blistering).
Symptoms/effects after eye contact	: Causes eye irritation. redness, itching, tears.
Symptoms/effects after ingestion	: May cause irritation to the digestive tract. There may be redness and soreness of the mouth and throat.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Carbon dioxide (CO2). Dry powder. Foam. In case of a larger fire, water spray should be used.
Unsuitable extinguishing media	: Do not use water jet to extinguish.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: In case of fire and/or explosion do not breathe fumes. In combustion emits toxic fumes.
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5.3. Advice for firefighters

Firefighting instructions	: Control run-off water by containing and keeping it out of sewers and watercourses.
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Protection during firefighting : Use self-contained breathing apparatus and chemically protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.
Emergency procedures : Ventilate spillage area. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. . Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the liquid escaping.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

For a large spillage, contain the spillage by bunding. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. This material and its container must be disposed of in a safe way, and as per local legislation.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Provide local exhaust or general room ventilation. Avoid contact with skin and eyes. Contaminated work clothing should not be allowed out of the workplace. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in original container. Store in a dry place. Store in a closed container. Store in a well-ventilated place. Keep cool. The floor of the storage room must be impermeable to prevent the escape of liquids.

7.3. Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

N-METHYL-2-PYRROLIDONE (872-50-4)	
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	40 mg/m ³
	10 ppm
WEL STEL (OEL STEL)	80 mg/m ³

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N-METHYL-2-PYRROLIDONE (872-50-4)	
	20 ppm
2-METHOXY-1-METHYLETHYL ACETATE (108-65-6)	
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	274 mg/m ³
WEL STEL (OEL STEL)	548 mg/m ³
1-Methoxypropan-2-ol (107-98-2)	
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	375 mg/m ³
	100 ppm
WEL STEL (OEL STEL)	560 mg/m ³
	150 ppm
Aerosil R208 (67762-90-7)	
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	6 mg/m ³
WEL STEL (OEL STEL)	2.4 mg/m ³

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

N-METHYL-2-PYRROLIDONE (872-50-4)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	4.8 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	14.4 mg/m ³
Long-term - local effects, inhalation	40 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0.85 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	3.6 mg/m ³
Long-term - systemic effects, dermal	2.4 mg/kg bodyweight/day
Long-term - local effects, inhalation	4.5 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0.25 mg/l
PNEC aqua (marine water)	0.025 mg/l
PNEC aqua (intermittent, freshwater)	5 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	1.09 mg/kg dwt
PNEC sediment (marine water)	0.109 mg/kg dwt

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N-METHYL-2-PYRROLIDONE (872-50-4)	
PNEC (Soil)	
PNEC soil	0.0701 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l
BENZYL ALCOHOL (100-51-6)	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	40 mg/kg bw/day
Acute - systemic effects, inhalation	110 mg/m ³
Long-term - local effects, dermal	8 mg/kg bw/day
Long-term - systemic effects, inhalation	22 mg/kg bw/day
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	20 mg/kg bw/day
Acute - systemic effects, inhalation	27
Acute - systemic effects, oral	20 mg/m ³
Long-term - systemic effects, oral	4 mg/kg bw/day
Long-term - systemic effects, inhalation	5.4 mg/m ³
Long-term - systemic effects, dermal	4 mg/kg bw/day
PNEC (Water)	
PNEC aqua (freshwater)	1 mg/l
PNEC aqua (marine water)	0.1 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	5.27 mg/kg dwt
PNEC sediment (marine water)	0.527 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.456 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	39 mg/l
2-METHOXY-1-METHYLETHYL ACETATE (108-65-6)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	550 mg/m ³
Long-term - systemic effects, dermal	796 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	275 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, oral	500 mg/kg bodyweight/day
Long-term - systemic effects, oral	36 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	33 mg/m ³
Long-term - systemic effects, dermal	320 mg/kg bodyweight/day
Long-term - local effects, inhalation	33 mg/m ³

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2-METHOXY-1-METHYLETHYL ACETATE (108-65-6)	
PNEC (Water)	
PNEC aqua (freshwater)	0.635 mg/l
PNEC aqua (marine water)	0.0635 mg/l
PNEC aqua (intermittent, freshwater)	6.35 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	3.29 mg/kg dwt
PNEC sediment (marine water)	0.329 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.29 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	100 mg/l
SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.; LOW BOILING POINT NAPHTHA (64742-95-6)	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	1286.4 mg/m ³
Acute - local effects, inhalation	1066.67 mg/m ³
Long-term - local effects, inhalation	837.5 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, inhalation	1152 mg/m ³
Acute - local effects, inhalation	640 mg/m ³
Long-term - local effects, inhalation	178.57 mg/m ³
2,6-di-tert-butyl-p-cresol (128-37-0)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	0.5 mg/kg bodyweight/day
Long-term - local effects, dermal	0.5 mg/kg bw/day
Long-term - systemic effects, inhalation	1.76 mg/m ³
Long-term - local effects, inhalation	3.5 mg/kg bw/day
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0.25 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.435 mg/m ³
Long-term - systemic effects, dermal	0.25 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.199 µg/l
PNEC aqua (marine water)	0.0199 µg/l
PNEC aqua (intermittent, freshwater)	1.99 µg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.45819 mg/kg dwt
PNEC sediment (marine water)	0.04582 mg/kg dwt

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2,6-di-tert-butyl-p-cresol (128-37-0)	
PNEC (Soil)	
PNEC soil	0.0539 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	16.67 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	0.017 mg/l
1-Methoxypropan-2-ol (107-98-2)	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	553.5 mg/m ³
Acute - local effects, inhalation	553.5 mg/m ³
Long-term - systemic effects, dermal	183 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	369 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	33 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	43.9 mg/m ³
Long-term - systemic effects, dermal	78 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	10 mg/l
PNEC aqua (marine water)	1 mg/l
PNEC aqua (intermittent, freshwater)	100 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	52.3 mg/kg dwt
PNEC sediment (marine water)	5.2 mg/kg dwt
PNEC (Soil)	
PNEC soil	4.59 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	100 mg/l
OCTAMETHYLCYCLOTETRASILOXANE (556-67-2)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, inhalation	73 mg/m ³
Long-term - local effects, inhalation	73 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	3.7 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	13 mg/m ³
Long-term - local effects, inhalation	13 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	1.5 µg/l
PNEC aqua (marine water)	0.15 µg/l

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OCTAMETHYLCYCLOTETRASILOXANE (556-67-2)

PNEC (Sediment)

PNEC sediment (freshwater) 3 mg/kg dwt

PNEC sediment (marine water) 0.3 mg/kg dwt

PNEC (Soil)

PNEC soil 0.54 mg/kg dwt

PNEC (Oral)

PNEC oral (secondary poisoning) 41 mg/kg food

PNEC (STP)

PNEC sewage treatment plant 10 mg/l

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Provide local exhaust or general room ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

8.2.2. Personal protection equipment

Personal protective equipment:

Gloves. Safety glasses. Protective clothing.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Wear eye protection

8.2.2.2. Skin protection

Skin and body protection:

Avoid contact with skin

Hand protection:

Standard EN 374 - Protective gloves against chemicals.

Other skin protection

Materials for protective clothing:

Keep work clothing separately

8.2.2.3. Respiratory protection

Respiratory protection:

Wear suitable respiratory equipment in case of insufficient ventilation

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Colourless liquid.
Odour	: slight.
Odour threshold	: Not available
pH	: Not available
Melting point	: Not available
Freezing point	: > 100
Boiling point	: Not available
Flash point	: >100
Flammability	: Not available
Explosive limits	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Relative vapour density at 20°C	: Not available
Relative density	: Not available
Density	: Not available
Solubility	: Material insoluble in water. soluble in most organic solvents.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
Viscosity, kinematic	: Not available
Explosive properties	: Not available

9.2. Other information

Particle characteristics : Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with (strong) oxidizers.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

Strong acids. Strong bases. Strong oxidizing agents.

10.4. Conditions to avoid

Avoid heat.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

10.6. Hazardous decomposition products

In combustion emits toxic fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)

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N-METHYL-2-PYRROLIDONE (872-50-4)	
LD50 oral rat	4150 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 3100 - 5560
LD50 dermal rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 5.1 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
BENZYL ALCOHOL (100-51-6)	
LD50 oral rat	1200 mg/kg
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: EPA OTS 798.1100 (Acute Dermal Toxicity)
LD50 dermal	≈ 2500
LC50 Inhalation - Rat	5.4 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
Bisphenol-A-(epichlorohydrin) EPOXY RESIN (Number average MW ≤ 700) (25068-38-6)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method)
2-METHOXY-1-METHYLETHYL ACETATE (108-65-6)	
LD50 oral rat	> 6190 ml/kg Method: OECD Test Guideline 401
LD50 dermal rat	> 5000 mg/kg Method: OECD Test Guideline 402
1-Methoxypropan-2-ol (107-98-2)	
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal))
Aerosil R208 (67762-90-7)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg
Skin corrosion/irritation	: Causes skin irritation.
N-METHYL-2-PYRROLIDONE (872-50-4)	
pH	8.5 – 10
Serious eye damage/irritation	: Causes serious eye irritation.
N-METHYL-2-PYRROLIDONE (872-50-4)	
pH	8.5 – 10
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
N-METHYL-2-PYRROLIDONE (872-50-4)	
NOAEL (chronic, oral, animal/male, 2 years)	≈ 89 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 451 (Carcinogenicity Studies), Guideline: EU Method B.32 (Carcinogenicity Test), Guideline: EPA OTS 798.3300 (Carcinogenicity)
NOAEL (chronic, oral, animal/female, 2 years)	≈ 221 mg/kg bodyweight Animal: mouse, Animal sex: female, Guideline: OECD Guideline 451 (Carcinogenicity Studies), Guideline: EU Method B.32 (Carcinogenicity Test), Guideline: EPA OTS 798.3300 (Carcinogenicity)
Reproductive toxicity	: May damage the unborn child.
N-METHYL-2-PYRROLIDONE (872-50-4)	
LOAEL (animal/female, F0/P)	500 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)

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N-METHYL-2-PYRROLIDONE (872-50-4)	
NOAEL (animal/male, F0/P)	≥ 500 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)
NOAEL (animal/female, F0/P)	350 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
N-METHYL-2-PYRROLIDONE (872-50-4)	
STOT-single exposure	May cause respiratory irritation.
BENZYL ALCOHOL (100-51-6)	
NOAEL (oral, rat)	400 mg/kg bodyweight Method:- 451
2-METHOXY-1-METHYLETHYL ACETATE (108-65-6)	
STOT-single exposure	May cause drowsiness or dizziness.
1-Methoxypropan-2-ol (107-98-2)	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
N-METHYL-2-PYRROLIDONE (872-50-4)	
LOAEL (dermal, rat/rabbit, 90 days)	1653 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)
NOAEL (dermal, rat/rabbit, 90 days)	826 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)
BENZYL ALCOHOL (100-51-6)	
NOAEL (oral, rat, 90 days)	400 mg/kg bodyweight Animal: rat, Guideline: other:
2-METHOXY-1-METHYLETHYL ACETATE (108-65-6)	
NOAEL (dermal, rat/rabbit, 90 days)	> 1000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)
1-Methoxypropan-2-ol (107-98-2)	
LOAEL (oral, rat, 90 days)	2757 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
NOAEL (oral, rat, 90 days)	919 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
NOAEL (dermal, rat/rabbit, 90 days)	> 1000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
N-METHYL-2-PYRROLIDONE (872-50-4)	
Viscosity, kinematic	1.613 mm ² /s
BENZYL ALCOHOL (100-51-6)	
Viscosity, kinematic	4.851 mm ² /s
1-Methoxypropan-2-ol (107-98-2)	
Viscosity, kinematic	1.86 mm ² /s

Other information

No additional information available

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SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

N-METHYL-2-PYRROLIDONE (872-50-4)	
LC50 - Fish [1]	> 500 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	> 1000 mg/l Test organism (species): Daphnia magna
EC50 72h - Algae [1]	600.5 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	672.8 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
LOEC (chronic)	25 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	12.5 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic crustacea	12.5 mg/l

BENZYL ALCOHOL (100-51-6)	
LC50 - Fish [1]	460 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	230 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	770 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
NOEC chronic fish	48.897 mg/l Test organisms (species): other: Duration: '30 d'

Bisphenol-A-(epichlorohydrin) EPOXY RESIN (Number average MW <= 700) (25068-38-6)	
EC50 - Crustacea [1]	≈ 2 mg/l Test organisms (species): Daphnia magna

2-METHOXY-1-METHYLETHYL ACETATE (108-65-6)	
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Oryzias latipes
EC50 - Crustacea [1]	> 500 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 1000 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
NOEC (chronic)	≥ 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	47.5 mg/l Test organisms (species): Oryzias latipes Duration: '14 d'
NOEC chronic crustacea	> 100 mg/l

1-Methoxypropan-2-ol (107-98-2)	
EC50 - Other aquatic organisms [1]	2954 mg/l Test organisms (species): other aquatic crustacea:

Aerosil R208 (67762-90-7)	
LC50 - Fish [1]	> 10000 mg/l

12.2. Persistence and degradability

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Persistence and degradability	Not rapidly degradable

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N-METHYL-2-PYRROLIDONE (872-50-4)	
Persistence and degradability	Not rapidly degradable
BENZYL ALCOHOL (100-51-6)	
Persistence and degradability	Readily biodegradable.
Bisphenol-A-(epichlorohydrin) EPOXY RESIN (Number average MW <= 700) (25068-38-6)	
Persistence and degradability	Not rapidly degradable
2-METHOXY-1-METHYLETHYL ACETATE (108-65-6)	
Persistence and degradability	Readily biodegradable.
1-Methoxypropan-2-ol (107-98-2)	
Persistence and degradability	Readily biodegradable.
Aerosil R208 (67762-90-7)	
Persistence and degradability	Not rapidly degradable

12.3. Bioaccumulative potential

2-METHOXY-1-METHYLETHYL ACETATE (108-65-6)	
Partition coefficient n-octanol/water (Log Kow)	1.2
Bioaccumulative potential	Bioaccumulation is insignificant.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Altro Tect Vertical Clear Base	
This substance does not meet the PBT criteria of UK REACH regulation, annex XIII	
This substance does not meet the vPvB criteria of UK REACH regulation, annex XIII	
Component	
N-METHYL-2-PYRROLIDONE (872-50-4)	This substance does not meet the PBT criteria of UK REACH regulation, annex XIII This substance does not meet the vPvB criteria of UK REACH regulation, annex XIII
BENZYL ALCOHOL (100-51-6)	This substance does not meet the PBT criteria of UK REACH regulation, annex XIII This substance does not meet the vPvB criteria of UK REACH regulation, annex XIII
2-METHOXY-1-METHYLETHYL ACETATE (108-65-6)	This substance does not meet the PBT criteria of UK REACH regulation, annex XIII This substance does not meet the vPvB criteria of UK REACH regulation, annex XIII
Aerosil R208 (67762-90-7)	This substance does not meet the PBT criteria of UK REACH regulation, annex XIII This substance does not meet the vPvB criteria of UK REACH regulation, annex XIII

12.6. Other adverse effects

Ozone : Not classified (Based on available data, the classification criteria are not met)

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation : Disposal must be done according to official regulations.
Waste treatment methods : Must follow special treatment according to local regulation.

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HP Code : HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.
 HP13 - "Sensitising:" waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs.
 HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082
14.2. UN proper shipping name				
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.)	Environmentally hazardous substance, liquid, n.o.s. (ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.)
Transport document description				
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.), 9, III
14.3. Transport hazard class(es)				
9	9	9	9	9
				
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary information available				

14.6. Special precautions for user

Overland transport
 Classification code (ADR) : M6
 Special provisions (ADR) : 274, 335, 375, 601
 Limited quantities (ADR) : 5l

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Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Special packing provisions (ADR)	: PP1
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1, TP29
Tank code (ADR)	: LGBV
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13
Hazard identification number (Kemler No.)	: 90
Orange plates	:



Tunnel restriction code (ADR)	: -
EAC code	: •3Z

Transport by sea

Special provisions (IMDG)	: 274, 335, 969
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: LP01, P001
Special packing provisions (IMDG)	: PP1
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, TP29
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-F
Stowage category (IMDG)	: A

Air transport

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y964
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 964
PCA max net quantity (IATA)	: 450L
CAO packing instructions (IATA)	: 964
CAO max net quantity (IATA)	: 450L
Special provisions (IATA)	: A97, A158, A197, A215
ERG code (IATA)	: 9L

Inland waterway transport

Classification code (ADN)	: M6
Special provisions (ADN)	: 274, 335, 375, 601
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP
Number of blue cones/lights (ADN)	: 0

Rail transport

Classification code (RID)	: M6
Special provisions (RID)	: 274, 335, 375, 601
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Special packing provisions (RID)	: PP1
Mixed packing provisions (RID)	: MP19

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Portable tank and bulk container instructions (RID) : T4
Portable tank and bulk container special provisions (RID) : TP1, TP29
Tank codes for RID tanks (RID) : LGBV
Transport category (RID) : 3
Special provisions for carriage – Packages (RID) : W12
Special provisions for carriage - Loading, unloading and handling (RID) : CW13, CW31
Colis express (express parcels) (RID) : CE8
Hazard identification number (RID) : 90

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. National regulations

UK REACH Annex XVII (Restriction List)

This product contains no substance(s) listed on UK REACH Annex XVII (Restriction List) equal to or above the level of SDS disclosure

UK REACH Annex XIV (Authorisation List)

This product contains no substance(s) listed on UK REACH Annex XIV (Authorisation List) equal to or above the 0.1% level of disclosure

UK REACH Candidate List (SVHC)

This product contains substance(s) listed on the UK REACH Candidate list (SVHC) at or above the 0.1% level of disclosure: 1-Methyl-2-pyrrolidone (NMP) - Toxic for reproduction (Article 57c).

GB PIC Regulation (Prior Informed Consent)

This product contains no substance(s) listed on the GB PIC List equal to or above the level of SDS disclosure

POP Regulation (Persistent Organic Pollutants)

This product contains no substance(s) listed on the GB POP List equal to or above the level of SDS disclosure

Ozone Regulation (S.I. No. 168 of 2015)

This product contains no substance(s) listed on the GB Ozone Depletion List equal to or above the level of SDS disclosure

Control of Poisons and Explosives Precursors Act

This product contains no substance(s) listed as a reportable poison on the Control of Poisons and Explosives Precursors Regulations equal to or above the level of SDS disclosure

This product contains no substance(s) listed as a regulated poison on the Control of Poisons and Explosives Precursors Regulations equal to or above the level of SDS disclosure

This product contains no substance(s) listed as a reportable explosive precursor on the Control of Poisons and Explosives Precursors Regulations equal to or above the level of SDS disclosure

This substance is not listed as a regulated poison on the Control of Poisons and Explosives Precursors Regulations

Drug Precursors Regulation (EC 273/2004)

This product contains no substance(s) listed on the GB Drug Precursors List equal to or above the level of SDS disclosure

15.1.2. Other Information

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
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Full text of H- and EUH-statements:	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Repr. 1B	Reproductive toxicity, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H360	May damage fertility or the unborn child.
H360D	May damage the unborn child.
H411	Toxic to aquatic life with long lasting effects.

Safety Data Sheet (SDS), UK

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.