



SAFETY DATA SHEET

Altro Flow 1mm/Altro Flow 2mm/Altro Flow 3mm base

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

1.1. Product identifier

Product name Altro Flow 1mm/Altro Flow 2mm/Altro Flow 3mm base

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

Identified uses Epoxy Base - Industrial flooring & wall coatings

1.3. Details of the supplier of the safety data sheet

Supplier Altro Resin Systems Ltd
 Unit 3 Station Rd Industrial Estate
 Maiden Newton
 Dorchester
 Dorset
 DT2 0AE
 Tel: 01300320620
 Fax: 01300321122
 info@altro.com

1.4. Emergency telephone number

Emergency telephone +44(0)1462480480 (Monday-Friday 09.00-17.00)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

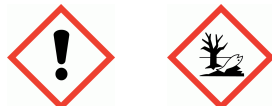
Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317

Environmental hazards Aquatic Chronic 2 - H411

Classification (67/548/EEC or 1999/45/EC) Xi;R36/38. R43. N;R51/53.

2.2. Label elements

Pictogram



Signal word Warning

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

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Precautionary statements

EUH205 Contains epoxy constituents. May produce an allergic reaction.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P313 Get medical advice/ attention.
 P501 Dispose of contents/ container to ...
 P501 Dispose of contents/ container in accordance with national regulations.

Contains

Reaction product: bisphenol-A-(epichlorohydrin) EPOXY RESIN (Number average MW <= 700)

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Reaction product: bisphenol-A-(epichlorohydrin) EPOXY RESIN (Number average MW <= 700)	60-100%
CAS number: 25068-38-6	EC number: 500-033-5
Classification	Classification (67/548/EEC or 1999/45/EC)
Skin Irrit. 2 - H315	R43 Xi;R36/38 N;R51/53
Eye Irrit. 2 - H319	
Skin Sens. 1 - H317	
Aquatic Chronic 2 - H411	
BENZYL ALCOHOL	10-30%
CAS number: 100-51-6	EC number: 202-859-9
Classification	Classification (67/548/EEC or 1999/45/EC)
Acute Tox. 4 - H302	Xn;R20/22
Acute Tox. 4 - H332	
Eye Irrit. 2 - H319	
2-METHOXY-1-METHYLETHYL ACETATE	<1%
CAS number: 108-65-6	EC number: 203-603-9
Classification	Classification (67/548/EEC or 1999/45/EC)
Flam. Liq. 3 - H226	R10,R67.

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor

Ingestion Wash out mouth with water. Consult a doctor.

Skin contact Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.

Eye contact Bathe the eye with running water for 15 minutes. Consult a doctor.

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

Inhalation	There may be irritation of the throat with a feeling of tightness in the chest Exposure may cause coughing or wheezing
Ingestion	There may be redness and soreness of the mouth and throat
Skin contact	There may be irritation and redness at the site of contact.
Eye contact	There may be irritation and redness. The eyes may water profusely.

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

Notes for the doctor	No specific recommendations.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.
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5.2. Special hazards arising from the substance or mixture

Specific hazards	In combustion emits toxic fumes.
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5.3. Advice for firefighters

Special protective equipment for firefighters	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Refer to section 8 of SDS for personal protection details. 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 escape of liquid.
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6.2. Environmental precautions

Environmental precautions	Do not discharge into drains or rivers. Contain the spillage using bunding
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6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method
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6.4. Reference to other sections

Reference to other sections	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions	Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.
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7.2. Conditions for safe storage, including any incompatibilities

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Storage precautions Store in cool, well ventilated area. Keep container tightly closed. The floor of the storage room must be impermeable to prevent the escape of liquids.

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

2-METHOXY-1-METHYLETHYL ACETATE

Long-term exposure limit (8-hour TWA): WEL 50 ppm 274 mg/m³

Short-term exposure limit (15-minute): WEL 100 ppm 548 mg/m³

Sk

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

Ingredient comments No exposure limit value known for the mixture

8.2. Exposure controls

Appropriate engineering controls Ensure there is sufficient ventilation of the area. The floor of the storage room must be impermeable to prevent the escape of liquids.

Eye/face protection Safety glasses. Ensure eye bath is to hand

Hand protection Wear protective gloves.

Other skin and body protection Protective clothing.

Respiratory protection No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance Liquid.

Odour Barely perceptible odour

Flash point 100°C

Solubility(ies) Insoluble in water. Soluble in most organic solvents

9.2. Other information

Other information Not available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Strong oxidising agents.

10.2. Chemical stability

Stability Stable under normal conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Strong acids. Strong bases. Strong oxidising agents

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10.4. Conditions to avoid

Conditions to avoid Avoid heat.

10.5. Incompatible materials

Materials to avoid Strong acids, strong bases, strong oxidising agents

10.6. Hazardous decomposition products

Hazardous decomposition products In combustion emits toxic fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects Routes of exposure: Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

Acute toxicity - oral

ATE oral (mg/kg) 3,832.97

Acute toxicity - inhalation

ATE inhalation (gases ppm) 34,496.7

ATE inhalation (vapours mg/l) 84.33

ATE inhalation (dusts/mists mg/l) 11.5

SECTION 12: Ecological Information

Ecotoxicity Not known.

12.1. Toxicity

Toxicity Not available

12.2. Persistence and degradability

Persistence and degradability Not readily biodegradable

12.3. Bioaccumulative potential

Bioaccumulative potential Bioaccumulation potential

12.4. Mobility in soil

Mobility Readily absorbed into soil

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment No data available.

12.6. Other adverse effects

Other adverse effects Toxic to aquatic organisms. Toxic to soil organisms.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Only experts should be permitted to carry out disposal of this material.

Disposal methods The user's attention is drawn to the possible existence of regional or national regulations regarding disposal

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SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID)	3082
UN No. (IMDG)	3082
UN No. (ICAO)	3082
UN No. (ADN)	3082

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Reaction product: bisphenol-A-(epichlorohydrin) EPOXY RESIN (Number average MW <= 700), benzyl alcohol)
Proper shipping name (IMDG)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Reaction product: bisphenol-A-(epichlorohydrin) EPOXY RESIN (Number average MW <= 700), benzyl alcohol)
Proper shipping name (ICAO)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Reaction product: bisphenol-A-(epichlorohydrin) EPOXY RESIN (Number average MW <= 700), benzyl alcohol)
Proper shipping name (ADN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Reaction product: bisphenol-A-(epichlorohydrin) EPOXY RESIN (Number average MW <= 700), benzyl alcohol)

14.3. Transport hazard class(es)

ADR/RID class	9
ADR/RID classification code	M6
ADR/RID label	9
IMDG class	9
ICAO class/division	9
ADN class	9

Transport labels



14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ADN packing group	III
ICAO packing group	III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



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14.6. Special precautions for user

EmS	F-A, S-F
ADR transport category	3
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

Guidance The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision date	17/05/2018
Revision	4
SDS number	21336
Risk phrases in full	R10 Flammable. R20/22 Harmful by inhalation and if swallowed. R36/38 Irritating to eyes and skin. R37 Irritating to respiratory system. R43 May cause sensitisation by skin contact. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R65 Harmful: may cause lung damage if swallowed. R66 Repeated exposure may cause skin dryness or cracking. R67 Vapours may cause drowsiness and dizziness.
Hazard statements in full	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. H332 Harmful if inhaled. H411 Toxic to aquatic life with long lasting effects.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.