



SAFETY DATA SHEET

Altro Crete 2mm slip-resistant/Altro Crete 4mm slip-resistant hardener

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

1.1. Product identifier

Product name Altro Crete 2mm slip-resistant/Altro Crete 4mm slip-resistant hardener

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

Identified uses PU Hardeners- Industrial flooring, hardener component for polyurethane system

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, United Kingdom DT2 0AE Tel: +44(0)1300320620 Fax: 01300321122 | Altro GmbH Ebertallee 209 06846 Dessau-Roßlau Germany Tel: +49(0)3406500-0 |
|-----------------|---|--|

Manufacturer

Altro Resin Systems Ltd
 Unit 3 Station Rd Industrial Estate
 Maiden Newton
 Dorchester
 Dorset
 DT2 0AE
 Tel: 01300320620
 Fax: 01300321122

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 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 Carc. 2 - H351 STOT SE 3 - H335 STOT RE 2 - H373

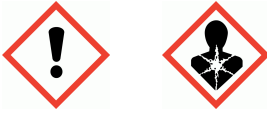
Environmental hazards Not Classified

Human health Harmful by inhalation. Irritating to eyes, respiratory system and skin. Limited evidence of a carcinogenic effect. May cause sensitisation by inhalation and skin contact. Harmful: danger of serious damage to health by prolonged exposure through inhalation.

2.2. Label elements

Altro Crete 2mm slip-resistant/Altro Crete 4mm slip-resistant hardener

Hazard pictograms



Signal word

Danger

Hazard statements

H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H335 May cause respiratory irritation.
 H351 Suspected of causing cancer.
 H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

P261 Avoid breathing vapour/ spray.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
 P337+P313 If eye irritation persists: Get medical advice/ attention.
 P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.
 P501 Dispose of contents/ container in accordance with national regulations.

Contains

METHYLENEDIPHENYL DIISOCYANATE

Supplementary precautionary statements

P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P260 Do not breathe vapour/ spray.
 P264 Wash contaminated skin thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P284 [In case of inadequate ventilation] wear respiratory protection.
 P308+P313 IF exposed or concerned: Get medical advice/ attention.
 P312 Call a POISON CENTRE/doctor if you feel unwell.
 P314 Get medical advice/ attention if you feel unwell.
 P321 Specific treatment (see medical advice on this label).
 P332+P313 If skin irritation occurs: Get medical advice/ attention.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P405 Store locked up.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Altro Crete 2mm slip-resistant/Altro Crete 4mm slip-resistant hardener

| | |
|--|----------------------|
| methylenediphenyl diisocyanate | 60-100% |
| CAS number: 26447-40-5 | EC number: 247-714-0 |
| Classification Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 Carc. 2 - H351 STOT SE 3 - H335 STOT RE 2 - H373 | |
| DIPHENYLMETHANEDIISOCYANATE -Isomers & homologues | 30-60% |
| CAS number: 9016-87-9 | |
| Classification Not Classified | |

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

SECTION 4: First aid measures

4.1. Description of first aid measures

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|---------------------|---|
| Inhalation | Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor. |
| Ingestion | Wash out mouth with water. If conscious, give half a litre of water to drink immediately. Consult a doctor. |
| Skin contact | Wash immediately with plenty of soap and water |
| Eye contact | Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination |

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

| | |
|----------------------------|--|
| General information | Immediate effects can be expected after short-term exposure. |
| 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

| | |
|----------------------------|--|
| Specific treatments | Eye bathing equipment should be available on the premises. |
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Dry chemical powder. Carbon dioxide. Alcohol resistant foam. Water spray.

5.2. Special hazards arising from the substance or mixture

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Specific hazards In combustion emits toxic fumes of carbon dioxide / carbon monoxide. In combustion emits toxic fumes of hydrogen cyanide. In combustion emits toxic fumes of nitrogen oxides.

5.3. Advice for firefighters

Protective actions during firefighting Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

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. Ventilate the area to dispel residual vapours.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or rivers. Do not discharge into subsoil/soil.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Take up with absorbent material (eg. sand, Kieselguhr, universal binder). Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Reference to other sections Refer to section 8 of SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in cool, well ventilated area. Avoid contact with water or humidity. Keep container tightly closed. If moisture enters isocyanate containers, CO₂ forms and pressure builds up. Protect from temperatures below 20°C and above 35°C.

7.3. Specific end use(s)

Specific end use(s) No data available.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

methylenediphenyl diisocyanate

Long-term exposure limit (8-hour TWA): WEL 0.02 mg/m³(Sen)

Short-term exposure limit (15-minute): WEL 0.07 mg/m³(Sen)

DIPHENYLMETHANEDIISOCYANATE -Isomers & homologues

Long-term exposure limit (8-hour TWA): WEL 0.02 mg/m³(Sen)

Short-term exposure limit (15-minute): WEL 0.07 mg/m³(Sen)

WEL = Workplace Exposure Limit.

8.2. Exposure controls

Appropriate engineering controls Ensure there is sufficient ventilation of the area

Eye/face protection Safety glasses with side-shields.

Hand protection Nitrile gloves. Butyl gloves. PVC gloves.

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Other skin and body protection Wear protective clothing.

Respiratory protection Respiratory protection in case of vapour/aerosol release: Combination filter for gases/ vapours of organic compounds and solid liquid particles. (f.e. EN 14387 Type A-P2)

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Liquid.

Colour Yellow. Brown.

Solubility(ies) Miscible with water. Soluble in most organic solvents

9.2. Other information

Other information Not available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Stable under recommended transport or storage conditions.

10.2. Chemical stability

Stability Stable under normal conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid <15°C

10.5. Incompatible materials

Materials to avoid Acids. Water. Alcohols. Amines. Bases.

10.6. Hazardous decomposition products

Hazardous decomposition products In combustion emits toxic fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - inhalation

ATE inhalation (gases ppm) 6,428.57142857

ATE inhalation (vapours mg/l) 15.71428571

ATE inhalation (dusts/mists mg/l) 2.14285714

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 soreness and redness 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.

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SECTION 12: Ecological information

12.1. Toxicity

Toxicity Ecotoxicological studies of the product are not available.
Do not allow to escape into waterways, wastewater or soil.

12.2. Persistence and degradability

Persistence and degradability The product is not biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential No bioaccumulation potential

12.4. Mobility in soil

Mobility Not available

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any PBT or vPvB substances

12.6. Other adverse effects

Other adverse effects Negligible ecotoxicity.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Transfer to a suitable container and arrange for collection by specialised disposal company.
NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

Not applicable.

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

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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

Health and environmental listings Any existing national regulations on the handling of isocyanates must be observed.

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the Mixture by the supplier.

SECTION 16: Other information

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| Revision date | 16/09/2016 |
| Revision | 3 |
| SDS number | 21342 |
| Hazard statements in full | <p>H315 Causes skin irritation.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H319 Causes serious eye irritation.</p> <p>H332 Harmful if inhaled.</p> <p>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.</p> <p>H335 May cause respiratory irritation.</p> <p>H351 Suspected of causing cancer.</p> <p>H373 May cause damage to organs through prolonged or repeated exposure.</p> |

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.