



SAFETY DATA SHEET

Altro Flexiflow standard/slip resistant top-coat coloured/clear base

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

1.1. Product identifier

Product name Altro Flexiflow standard/slip resistant top-coat coloured/clear base

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

Identified uses Industrial flooring - base

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 Not Classified
Environmental hazards Aquatic Chronic 3 - H412

2.2. Label elements

Hazard statements H412 Harmful to aquatic life with long lasting effects.
Precautionary statements P273 Avoid release to the environment.
P280 Wear protective gloves.
P280 Wear eye 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.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations

2.3. Other hazards

Not available.

SECTION 3: Composition/information on ingredients

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3.2. Mixtures

AMMONIA, ANHYDROUS	<1%
CAS number: 7664-41-7	EC number: 231-635-3
M factor (Acute) = 1	
Classification	Classification (67/548/EEC or 1999/45/EC)
Flam. Gas 2 - H221	R10 T;R23 C;R34 N;R50
Press. Gas	
Acute Tox. 3 - H331	
Skin Corr. 1B - H314	
Eye Dam. 1 - H318	
Aquatic Acute 1 - H400	
FORMALDEHYDE ...%	<1%
CAS number: 50-00-0	EC number: 200-001-8
Classification	Classification (67/548/EEC or 1999/45/EC)
Acute Tox. 3 - H301	Carc. Cat. 3;R40 T;R23/24/25 C;R34 R43
Acute Tox. 3 - H311	
Acute Tox. 3 - H331	
Skin Corr. 1B - H314	
Eye Dam. 1 - H318	
Skin Sens. 1 - H317	
Carc. 2 - H351	
STOT SE 3 - H335	

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

General information	Take off all contaminated clothing immediately.
Inhalation	Take the person into the fresh air and keep him warm, let him rest; if there is difficulty in breathing, medical advice is required
Ingestion	DO NOT induce the patient to vomit, medical advice is required.
Skin contact	Instantly wash with water and soap and rinse thoroughly. If skin irritation or rash occurs: Get medical advice/attention.
Eye contact	Hold the eyes open and rinse with preferably lukewarm water for a sufficiently long period of time (at least 10 minutes). Contact an ophthalmologist.

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

General information Basic first aid, decontamination, symptomatic treatment.

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

Notes for the doctor Basic first aid, decontamination, symptomatic treatment.

Specific treatments No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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Suitable extinguishing media Carbon dioxide (CO₂), Foam, extinguishing powder, in cases of larger fires, water spray should be used.

Unsuitable extinguishing media High Volume Water Jet

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products Burning releases carbon monoxide, carbon dioxide, oxides of nitrogen and traces of hydrogen cyanide. In the event of fire and/or explosion do not breathe fumes.

5.3. Advice for firefighters

Protective actions during firefighting Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters

Special protective equipment for firefighters Firemen must wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Put on protective equipment (see section 8). Ensure adequate ventilation/exhaust extraction. Keep unauthorized persons away.

6.2. Environmental precautions

Environmental precautions Do not allow to escape into waterways, waste water or soil.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Take up with absorbent for chemicals or, if necessary with dry sand and store in closed containers.

6.4. Reference to other sections

Reference to other sections For further disposal measures see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions When handling observe the usual precautionary measures for chemicals. Ensure adequate ventilation and, if necessary, exhaust ventilation when handling or transferring the product. Avoid contact with skin and eyes. Keep away from foodstuffs, drinks and tobacco. Wash hands before breaks and at the end of workday. Keep working clothes separately. Take off all contaminated clothing immediately.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep container tightly closed in a dry and well-ventilated place

Storage class (TRGS 510): 12: Non Combustible Liquids

7.3. Specific end use(s)

Specific end use(s) No information available.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

AMMONIA, ANHYDROUS

Long-term exposure limit (8-hour TWA): WEL 25 ppm 18 mg/m³

Short-term exposure limit (15-minute): WEL 35 ppm 25 mg/m³

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FORMALDEHYDE ...%

Long-term exposure limit (8-hour TWA): WEL 2 ppm 2.5 mg/m³

Short-term exposure limit (15-minute): WEL 2 ppm 2.5 mg/m³

WEL = Workplace Exposure Limit

8.2. Exposure controls

Eye/face protection	Wear eye protection. Wear face protection.
Hand protection	Persons who suffer from skin complaints or other hypersensitivity reactions of skin should not work with the product Suitable materials for safety gloves; EN 374: Fluorinated rubber - FKM: thickness >=0,4mm; breakthrough time >=480min. Butyl rubber - IIR: thickness >=0,5mm; breakthrough time >=480min. Nitrile rubber - NBR: thickness >=0,35mm; breakthrough time >=480min. Recommendation: contaminated gloves should be disposed of.
Other skin and body protection	Wear suitable protective clothing as protection against splashing or contamination.
Respiratory protection	Respiratory protection required in insufficiently ventilated working areas and during spraying

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Coloured variant: Pigmented Clear variant: White liquid
Odour	Slight inherent odour

9.2. Other information

Other information	The indicated values do not necessarily correspond to the product specification. Please refer to the technical information sheet for specification data.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	This information is not available.
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10.2. Chemical stability

Stability	Stable under the prescribed storage conditions.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	This information is not available.
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10.4. Conditions to avoid

Conditions to avoid	This information is not available.
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10.5. Incompatible materials

Materials to avoid	This information is not available.
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10.6. Hazardous decomposition products

Hazardous decomposition products	On drying of the coating / hardening release of neutralising agent (anhydrous ammonia)
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SECTION 11: Toxicological information

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11.1. Information on toxicological effects

Toxicological effects No information available on the mixture

Acute toxicity - oral

Notes (oral LD₅₀) No information available on the mixture

Acute toxicity - dermal

Notes (dermal LD₅₀) No information available on the mixture

Acute toxicity - inhalation

Notes (inhalation LC₅₀) No information available on the mixture

Skin corrosion/irritation

Skin corrosion/irritation Not available.

Serious eye damage/irritation

Serious eye damage/irritation Not available.

Respiratory sensitisation

Respiratory sensitisation Not available

Skin sensitisation

Skin sensitisation Not available

Germ cell mutagenicity

Genotoxicity - in vitro No information available on the mixture

Genotoxicity - in vivo No data available

Carcinogenicity

Carcinogenicity No data available

Reproductive toxicity

Reproductive toxicity - fertility No data available

Specific target organ toxicity - single exposure

STOT - single exposure No data available

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No data available

Aspiration hazard

Aspiration hazard No data available.

SECTION 12: Ecological Information

12.1. Toxicity

Toxicity No information available on the mixture

12.2. Persistence and degradability

Persistence and degradability No information available on the mixture

12.3. Bioaccumulative potential

Bioaccumulative potential No data available.

12.4. Mobility in soil

Mobility No data available.

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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 No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods After containers have been emptied as thoroughly as possible (e.g. by pouring, scraping or draining until "drip-dry"), they can be sent to an appropriate collection point set up within the framework of the existing take-back scheme of the chemical industry. Containers must be recycled in compliance with national legislation and environmental regulations. None disposal into waste water

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

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 Any national regulations for the handling of hazardous substances must be observed.

15.2. Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Revision date 05/01/2018

Altro Flexiflow standard/slip resistant top-coat coloured/clear base

Revision	1
SDS number	21913
Hazard statements in full	H221 Flammable gas. H301 Toxic if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H331 Toxic if inhaled. H335 May cause respiratory irritation. H351 Suspected of causing cancer. H400 Very toxic to aquatic life. H412 Harmful to aquatic life with long lasting effects.