



Altro Flexiflow Standard / Slip resistant Top-coat Coloured / Clear Base

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 02/06/2023 Revision date: 02/06/2023 Supersedes version of: 05/01/2018 Version: 2.0

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

1.1. Product identifier

Product form : Mixture
Product name : Altro Flexiflow Standard / Slip resistant Top-coat Coloured / Clear Base
Product code : AFFTC_B____
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 : PU Based Industrial Flooring

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

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

Other

Altro GmbH
Ebertallee 209
06846 Dessau-Roßlau
DE
T +49 (0) 340 6500-0

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 Regulation (EC) No. 1272/2008 [CLP]

Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412
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 Regulation (EC) No. 1272/2008 [CLP]

Signal word (CLP) : -
Hazard statements (CLP) : H412 - Harmful to aquatic life with long lasting effects.
EUH-statements : EUH208 - Contains Reaction mass of 5-chloro-2methyl-2H-isothiazol-3-one and 2methyl-2H-isothiazol-3-one (3:1) (55965-84-9) (3131), 2-methylisothiazol-3(2H)-one (2682-20-4) (10007). May produce an allergic reaction.

2.3. Other hazards

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

Altro Flexiflow Standard / Slip resistant Top-coat Coloured / Clear Base

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Component

Nonylphenol, branched, ethoxylated (68412-54-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
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The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

Component

Nonylphenol, branched, ethoxylated(68412-54-4)	The substance is included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605
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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Paraffins (petroleum), normal C>10	CAS-No.: 64771-71-7 EC-No.: 265-232-9	≥ 1 – < 3	Asp. Tox. 1, H304
2-ethylhexan-1-ol substance with national workplace exposure limit(s) (GB)	CAS-No.: 104-76-7 EC-No.: 203-234-3	< 1	Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h) Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
Ammonia, anhydrous substance with national workplace exposure limit(s) (GB) (Note U)	CAS-No.: 7664-41-7 EC-No.: 231-635-3 EC Index-No.: 007-001-00-5 REACH-no: 01-2119488876-14	< 0.1	Flam. Gas 2, H221 Press. Gas Acute Tox. 3 (Inhalation), H331 (ATE=700 ppmv/4h) Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Nonylphenol, branched, ethoxylated substance listed as REACH Candidate (4-Nonylphenol, branched and linear, ethoxylated) substance listed in REACH Annex XIV (4-Nonylphenol, branched and linear, ethoxylated (substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof))	CAS-No.: 68412-54-4 EC-No.: 500-209-1 REACH-no: 01-2119485218-31	< 0.1	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=10)

Altro Flexiflow Standard / Slip resistant Top-coat Coloured / Clear Base

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Reaction mass of 5-chloro-2methyl-2H-isothiazol-3-one and 2methyl-2H-isothiazol-3-one (3:1) (Note B)	CAS-No.: 55965-84-9 EC-No.: 911-418-6 EC Index-No.: 613-167-00-5	< 0.1	Acute Tox. 3 (Oral), H301 (ATE=64 mg/kg bodyweight) Acute Tox. 2 (Dermal), H310 (ATE=87.12 mg/kg bodyweight) Acute Tox. 2 (Inhalation:dust,mist), H330 (ATE=0.05 mg/l/4h) Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
2-methylisothiazol-3(2H)-one substance with national workplace exposure limit(s) (AT, CH)	CAS-No.: 2682-20-4 EC-No.: 220-239-6 EC Index-No.: 613-326-00-9	< 0.1	Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight) Acute Tox. 3 (Dermal), H311 (ATE=300 mg/kg bodyweight) Acute Tox. 2 (Inhalation), H330 (ATE=0.05 mg/l/4h) Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH208

Specific concentration limits:

Name	Product identifier	Specific concentration limits
Reaction mass of 5-chloro-2methyl-2H-isothiazol-3-one and 2methyl-2H-isothiazol-3-one (3:1)	CAS-No.: 55965-84-9 EC-No.: 911-418-6 EC Index-No.: 613-167-00-5	(0.0015 ≤C ≤ 100) Skin Sens. 1A, H317 (0.06 ≤C < 0.6) Skin Irrit. 2, H315 (0.06 ≤C < 0.6) Eye Irrit. 2, H319 (0.6 ≤C ≤ 100) Skin Corr. 1C, H314 (0.6 ≤C ≤ 100) Eye Dam. 1, H318
2-methylisothiazol-3(2H)-one	CAS-No.: 2682-20-4 EC-No.: 220-239-6 EC Index-No.: 613-326-00-9	(0.0015 ≤C ≤ 100) Skin Sens. 1A, H317

Note B: Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: '... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

Note U: When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned: Press. Gas (Comp.), Press. Gas (Liq.), Press. Gas (Ref. Liq.), Press. Gas (Diss.). Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2).

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

Altro Flexiflow Standard / Slip resistant Top-coat Coloured / Clear Base

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: If you feel unwell, seek medical advice.
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	: If swallowed, seek medical advice immediately and show this container or label.

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

Symptoms/effects	: Treat symptomatically.
Symptoms/effects after inhalation	: May cause irritation to the respiratory tract.
Symptoms/effects after skin contact	: Causes mild skin irritation.
Symptoms/effects after eye contact	: Causes eye irritation. redness, itching, tears.
Symptoms/effects after ingestion	: Ingestion may cause nausea and vomiting.

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 (CO ₂). 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	: On burning: release of toxic gases/vapours. Carbon oxides (CO, CO ₂). Nitrogenous substances.
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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.
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.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Avoid release to the environment.

Altro Flexiflow Standard / Slip resistant Top-coat Coloured / Clear Base

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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 : Ensure good ventilation of the work station. Use personal protective equipment as required.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep container closed when not in use. Keep only in original container. Keep cool. Store in a dry place. Store in a closed container. Store in a well-ventilated place. Keep container tightly closed.

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

Ammonia, anhydrous (7664-41-7)	
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	18 mg/m ³
WEL TWA (OEL TWA) [2]	25 ppm
WEL STEL (OEL STEL)	25 mg/m ³
WEL STEL (OEL STEL) [ppm]	35 ppm
2-ethylhexan-1-ol (104-76-7)	
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	5.4 mg/m ³
WEL TWA (OEL TWA) [2]	1 ppm

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

Ammonia, anhydrous (7664-41-7)	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	6.8 mg/kg bodyweight/day

Altro Flexiflow Standard / Slip resistant Top-coat Coloured / Clear Base

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Ammonia, anhydrous (7664-41-7)	
Acute - systemic effects, inhalation	47.6 mg/m ³
Acute - local effects, inhalation	36 mg/m ³
Long-term - systemic effects, dermal	6.8 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	47.6 mg/m ³
Long-term - local effects, inhalation	14 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	68 mg/kg bodyweight/day
Acute - systemic effects, inhalation	23.8 mg/m ³
Acute - systemic effects, oral	6.8 mg/kg bodyweight/day
Acute - local effects, inhalation	7.2 mg/m ³
Long-term - systemic effects, oral	6.8 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	23.8 mg/m ³
Long-term - systemic effects, dermal	68 mg/kg bodyweight/day
Long-term - local effects, inhalation	2.8 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0.0011 mg/l
PNEC aqua (marine water)	0.0011 mg/l
PNEC aqua (intermittent, freshwater)	0.0068 mg/l
Reaction mass of 5-chloro-2methyl-2H-isothiazol-3-one and 2methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	0.04 mg/m ³
Long-term - local effects, inhalation	0.02 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, oral	0.11 mg/kg bodyweight/day
Acute - local effects, inhalation	0.04 mg/m ³
Long-term - systemic effects, oral	0.09 mg/kg bodyweight/day
Long-term - local effects, inhalation	0.02 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	3.39 µg/l
PNEC aqua (marine water)	3.39 µg/l
PNEC aqua (intermittent, freshwater)	3.39 µg/l
PNEC aqua (intermittent, marine water)	3.39 µg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.027 mg/kg dwt
PNEC sediment (marine water)	0.027 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.01 mg/kg dwt

Altro Flexiflow Standard / Slip resistant Top-coat Coloured / Clear Base

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Reaction mass of 5-chloro-2methyl-2H-isothiazol-3-one and 2methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	
PNEC (STP)	
PNEC sewage treatment plant	0.23 mg/l
2-ethylhexan-1-ol (104-76-7)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	53.2 mg/m ³
Long-term - systemic effects, dermal	23 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	12.8 mg/m ³
Long-term - local effects, inhalation	53.2 mg/m ³
DNEL/DMEL (General population)	
Acute - local effects, inhalation	26.6 mg/m ³
Long-term - systemic effects, oral	1.1 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	2.3 mg/m ³
Long-term - systemic effects, dermal	11.4 mg/kg bodyweight/day
Long-term - local effects, inhalation	26.6 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0.017 mg/l
PNEC aqua (marine water)	0.0017 mg/l
PNEC aqua (intermittent, freshwater)	0.17 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.284 mg/kg dwt
PNEC sediment (marine water)	0.0284 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.047 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	55 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l
OCTAMETHYLCYCLOTETRAILOXANE (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

Altro Flexiflow Standard / Slip resistant Top-coat Coloured / Clear Base

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

OCTAMETHYLCYCLOTETRASILOXANE (556-67-2)	
PNEC aqua (marine water)	0.15 µg/l
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
Hexamethyldisiloxane (107-46-0)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	333 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	53.4 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	0.27 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	13.3 mg/m ³
Long-term - systemic effects, dermal	167 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.002 mg/l
PNEC aqua (marine water)	0.0002 mg/l
PNEC aqua (intermittent, freshwater)	0.003 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	8.9 mg/kg dwt
PNEC sediment (marine water)	0.89 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.083 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	5.3 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l
Polymer (68920-66-1)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	2080 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	294 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	25 mg/kg bodyweight/day

Altro Flexiflow Standard / Slip resistant Top-coat Coloured / Clear Base

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Polymer (68920-66-1)	
Long-term - systemic effects, inhalation	87 mg/m ³
Long-term - systemic effects, dermal	1250 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.0072 mg/l
PNEC aqua (marine water)	0.0007 mg/l
PNEC aqua (intermittent, freshwater)	0.1 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	22.79 mg/kg dwt
PNEC sediment (marine water)	2.28 mg/kg dwt
PNEC (Soil)	
PNEC soil	1 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	10 g/l
2-methylisothiazol-3(2H)-one (2682-20-4)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	0.043 mg/m ³
Long-term - local effects, inhalation	0.021 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, oral	0.053 mg/kg bodyweight/day
Acute - local effects, inhalation	0.043 mg/m ³
Long-term - systemic effects, oral	0.027 mg/kg bodyweight/day
Long-term - local effects, inhalation	0.021 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	3.39 µg/l
PNEC aqua (marine water)	3.39 µg/l
PNEC aqua (intermittent, freshwater)	3.39 µg/l
PNEC aqua (intermittent, marine water)	3.39 µg/l
PNEC (Soil)	
PNEC soil	0.0471 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	0.23 mg/l
FORMALDEHYDE ...% (50-00-0)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	0.75 mg/m ³
Long-term - systemic effects, dermal	240 mg/kg bodyweight/day
Long-term - local effects, dermal	37 µg/cm ²
Long-term - systemic effects, inhalation	9 mg/m ³

Altro Flexiflow Standard / Slip resistant Top-coat Coloured / Clear Base

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

FORMALDEHYDE ...% (50-00-0)	
Long-term - local effects, inhalation	0.375 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	4.1 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	3.2 mg/m ³
Long-term - systemic effects, dermal	102 mg/kg bodyweight/day
Long-term - local effects, dermal	12 µg/cm ²
Long-term - local effects, inhalation	0.1 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0.44 mg/l
PNEC aqua (marine water)	0.44 mg/l
PNEC aqua (intermittent, freshwater)	4.44 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	2.3 mg/kg dwt
PNEC sediment (marine water)	2.3 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.2 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	0.19 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.

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.

Altro Flexiflow Standard / Slip resistant Top-coat Coloured / Clear Base

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Coloured variant: Pigmented Clear variant: White liquid.
Appearance	: Liquid.
Odour	: slight.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not available
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

Altro Flexiflow Standard / Slip resistant Top-coat Coloured / Clear Base

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

None under normal use.

10.4. Conditions to avoid

Heat. Freezing.

10.5. Incompatible materials

Not known.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Ammonia, anhydrous (7664-41-7)

LD50 oral rat	350 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Remarks on results: other:
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Reaction mass of 5-chloro-2methyl-2H-isothiazol-3-one and 2methyl-2H-isothiazol-3-one (3:1) (55965-84-9)

LD50 oral rat	64 mg/kg
LD50 dermal rat	> 1008 mg/kg bodyweight Animal: rat, Guideline: EPA OPP 81-2 (Acute Dermal Toxicity), Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal rabbit	87.12 mg/kg
LC50 Inhalation - Rat	> 0.33 mg/l/4h

Parraffins (petroleum), normal C>10 (64771-71-7)

LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
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2-ethylhexan-1-ol (104-76-7)

LD50 oral rat	≈ 2047 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rat	> 3000 mg/kg
LC50 Inhalation - Rat	0.89 – 5.3 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/irritation : Not classified

Reaction mass of 5-chloro-2methyl-2H-isothiazol-3-one and 2methyl-2H-isothiazol-3-one (3:1) (55965-84-9)

pH	3.43 Temp.: 20 °C Concentration: 10 g/L
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2-methylisothiazol-3(2H)-one (2682-20-4)

pH	2.58 Temp.: 25 °C Concentration: 50 g/L
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Serious eye damage/irritation : Not classified

Altro Flexiflow Standard / Slip resistant Top-coat Coloured / Clear Base

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Reaction mass of 5-chloro-2methyl-2H-isothiazol-3-one and 2methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	
pH	3.43 Temp.: 20 °C Concentration: 10 g/L
2-methylisothiazol-3(2H)-one (2682-20-4)	
pH	2.58 Temp.: 25 °C Concentration: 50 g/L
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Ammonia, anhydrous (7664-41-7)	
NOAEL (chronic, oral, animal/male, 2 years)	256 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Remarks on results: other:
NOAEL (chronic, oral, animal/female, 2 years)	284 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Remarks on results: other:
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
2-ethylhexan-1-ol (104-76-7)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Reaction mass of 5-chloro-2methyl-2H-isothiazol-3-one and 2methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	
LOAEL (dermal, rat/rabbit, 90 days)	0.525 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EPA OPP 82-3 (Subchronic Dermal Toxicity 90 Days)
2-ethylhexan-1-ol (104-76-7)	
NOAEL (oral, rat, 90 days)	250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEC (inhalation, rat, gas, 90 days)	120 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
2-methylisothiazol-3(2H)-one (2682-20-4)	
LOAEL (oral, rat, 90 days)	71.2 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents), Guideline: other:
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified
Paraffins (petroleum), normal C>10 (64771-71-7)	
Viscosity, kinematic	1.88 mm ² /s Temp.: '40°C' Parameter: 'kinematic viscosity (in mm ² /s)'
11.2. Information on other hazards	
11.2.1. Endocrine disrupting properties	
Component	
Nonylphenol, branched, ethoxylated(68412-54-4)	The substance is identified for having endocrine disrupting properties but there is no additional data available
11.2.2. Other information	
No additional information available	

Altro Flexiflow Standard / Slip resistant Top-coat Coloured / Clear Base

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

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

Not rapidly degradable

Ammonia, anhydrous (7664-41-7)	
LC50 - Fish [1]	0.75 – 3.4 mg/l Test organisms (species): Pimephales promelas
LC50 - Fish [2]	34 – 109 mg/l Test organisms (species): Pimephales promelas
LOEC (chronic)	1.3 mg/l Test organisms (species): Daphnia magna Duration: '96 h'
NOEC (chronic)	0.79 mg/l Test organisms (species): Daphnia magna Duration: '96 h'
NOEC chronic fish	1.2 mg/l Test organisms (species): Oncorhynchus gorboscha Duration: '61 d'
Reaction mass of 5-chloro-2methyl-2H-isothiazol-3-one and 2methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	
LC50 - Fish [1]	0.19 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
LC50 - Fish [2]	0.28 mg/l Test organisms (species): Lepomis macrochirus
EC50 - Crustacea [1]	70.7 mg/l
EC50 72h - Algae [1]	0.0199 mg/l
NOEC (chronic)	0.1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	0.098 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '28 d'
2-ethylhexan-1-ol (104-76-7)	
LC50 - Fish [1]	17.1 mg/l Test organisms (species): Leuciscus idus melanotus
LC50 - Fish [2]	28.2 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	39 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	11.5 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	16.6 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
2-methylisothiazol-3(2H)-one (2682-20-4)	
LC50 - Fish [1]	4.77 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	1.6 mg/l Test organisms (species): Daphnia magna
Nonylphenol, branched, ethoxylated (68412-54-4)	
LC50 - Fish [1]	0.218 mg/l Test organisms (species): Pimephales promelas
EC50 72h - Algae [1]	> 3 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
NOEC (chronic)	0.1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	0.006 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '91 d'

Altro Flexiflow Standard / Slip resistant Top-coat Coloured / Clear Base

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Component

Nonylphenol, branched, ethoxylated (68412-54-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
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12.6. Endocrine disrupting properties

Component

Nonylphenol, branched, ethoxylated(68412-54-4)	The substance is identified for having endocrine disrupting properties but there is no additional data available
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12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Must follow special treatment according to local regulation.
HP Code	: HP3 - "Flammable:" <ul style="list-style-type: none">– flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C;– flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;– flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;– flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa;– water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;– other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.

SECTION 14: Transport information

In accordance with ADR / IMDG / ADN / RID

ADR	IMDG	ADN	RID
14.1. UN number or ID number			
Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name			
Not applicable	Not applicable	Not applicable	Not applicable

Altro Flexiflow Standard / Slip resistant Top-coat Coloured / Clear Base

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

ADR	IMDG	ADN	RID
14.3. Transport hazard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards			
Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available			

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains substance(s) listed on REACH Annex XIV: 4-Nonylphenol, branched and linear, ethoxylated (EC 500-209-1, CAS 68412-54-4)

REACH Candidate List (SVHC)

Contains substance(s) listed on the REACH Candidate List in concentrations $\geq 0.1\%$ or SCL: 4-Nonylphenol, branched and linear, ethoxylated (EC 500-209-1, CAS 68412-54-4)

PIC Regulation (Prior Informed Consent)

Contains substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals): Nonylphenol, branched, ethoxylated (68412-54-4)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Altro Flexiflow Standard / Slip resistant Top-coat Coloured / Clear Base

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:	
Acute Tox. 2 (Dermal)	Acute toxicity (dermal), Category 2
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Acute Tox. 2 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
EUH208	Contains Reaction mass of 5-chloro-2methyl-2H-isothiazol-3-one and 2methyl-2H-isothiazol-3-one (3:1) (55965-84-9) (3131), 2-methylisothiazol-3(2H)-one (2682-20-4) (10007). May produce an allergic reaction.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Gas 2	Flammable gases, Category 2
H221	Flammable gas.
H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.

Altro Flexiflow Standard / Slip resistant Top-coat Coloured / Clear Base

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Full text of H- and EUH-statements:	
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
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.
H412	Harmful to aquatic life with long lasting effects.
Press. Gas	Gases under pressure
Skin Corr. 1	Skin corrosion/irritation, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1A	Skin sensitisation, category 1A
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

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.