

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 26.09.2022

Version number 4

Revision: 26.09.2022

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

1.1 Product identifier**Trade name: 414 Euroflex Lino Plus****Article number: 414****1.2 Relevant identified uses of the substance or mixture and uses advised against***No further relevant information available.***Application of the substance / preparation** *Flooring adhesive***1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:***Forbo Eurocol Nederland B.V.**Industrieweg 1-2**NL-1521 NA Wormerveer Holland**Tel. +31 75 6271600 - Fax +31 75 6283564**E-mail address: info.eurocol@forbo.com**Website: www.eurocol.com***1.4 Emergency telephone number:***In case of emergency please contact the Dutch National Poison Control, telephone number: 0031-(0)88-755 8000 (This number is only accessible to the physician treating the patient and only in case of accidental poisoning).*

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture**Classification according to Regulation (EC) No 1272/2008***The product is not classified, according to the CLP regulation.***2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008** *Void***Hazard pictograms** *Void***Signal word** *Void***Hazard statements** *Void***Additional information:***Contains 1,2-benzisothiazol-3(2H)-one, mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.***2.3 Other hazards****Results of PBT and vPvB assessment****PBT:** *Not applicable.***vPvB:** *Not applicable.*

SECTION 3: Composition/information on ingredients

3.2 Mixtures**Description:** *Flooring adhesive based on acrylate copolymer, fillers and resin dispersed in water.*

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Dangerous components:

CAS: 2634-33-5 EINECS: 220-120-9	1,2-benzisothiazol-3(2H)-one ♦ Acute Tox. 1, H330; ♦ Eye Dam. 1, H318; ♦ Aquatic Acute 1, H400; Aquatic Chronic 2, H411; ♦ Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317 Specific concentration limit: Skin Sens. 1; H317: C ≥ 0.05 %	<1%
CAS: 55965-84-9	mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) ♦ Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 2, H330; ♦ Skin Corr. 1C, H314; Eye Dam. 1, H318; ♦ Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100); ♦ Skin Sens. 1A, H317 Specific concentration limits: Skin Corr. 1C; H314: C ≥ 0.6 % Skin Irrit. 2; H315: 0.06 % ≤ C < 0.6 % Eye Dam. 1; H318: C ≥ 0.6 % Eye Irrit. 2; H319: 0.06 % ≤ C < 0.6 % Skin Sens. 1A; H317: C ≥ 0.0015 %	<1%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

- **General information:** No special measures required.
- **After inhalation:** Not applicable.
- **After skin contact:** Wash with water and soap.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a physician.
- **After swallowing:** Rinse mouth with water and consult physician immediately.
- **Information for doctor:** Product is weak alkaline and after drying hardly soluble in water.

· **4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

· **5.3 Advice for firefighters**

· **Protective equipment:** No special measures required.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures** Not required.

· **6.2 Environmental precautions:**

Dilute with plenty of water.

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Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Collect product in waste container. Rinse floor with water.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling** *No special measures required.*

· **Information about fire - and explosion protection:** *No special measures required.*

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** *Store in a cool, but frost-proof location.*

· **Information about storage in one common storage facility:** *Not required.*

· **Further information about storage conditions:**

Recommended storage temperature between 15 and 25 °C.

· **7.3 Specific end use(s)** *No further relevant information available.*

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **DNELs**

124-17-4 2-(2-butoxyethoxy)ethyl acetate

Oral	DNEL	1.58 mg/kg (Consumer)
Dermal	DNEL Langdurig	12 mg/kg KG/d (Consumer)
Inhalative	DNEL	43 mg/m ³ (Consumer)
		85 mg/m ³ (wrk)

2634-33-5 1,2-benzisothiazol-3(2H)-one

Dermal	DNEL Langdurig	0.966 mg/kg KG/d (wrk)
	DNEL kortdurend systemische gezondheidsklachten	0.345 mg/kg/d (Consumer)
Inhalative	DNEL Inademing langdurig	1.2 /mg/m ³ (Consumer)
	DNEL	6.81 mg/m ³ (wrk)

55965-84-9 mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

Oral	DNEL	0.09 mg/kg (Consumer)
Inhalative	DNEL Inademing langdurig	0.02 /mg/m ³ (Consumer)

· **PNECs**

124-17-4 2-(2-butoxyethoxy)ethyl acetate

PNEC mg/l	0.18 mg/l (Soil)
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	0.0108 mg/l (Sea Water) 0.108 mg/l (Fresh Water)
2634-33-5 1,2-benzisothiazol-3(2H)-one	
PNEC	4.99 µg/kg (Sea Water Sediment) 49.9 µg/kg (Fresh Water Sediment)
PNEC ug/l	0.403 µg/l (Sea Water) 4.03 µg/l (Fresh Water)
PNEC mg/kg	3 mg/kg (Soil)
55965-84-9 mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	
PNEC mg/kg	0.01 mg/kg (Soil) 0.027 mg/kg (Sea Water Sediment) 0.027 mg/kg (Fresh Water Sediment)

· **Additional information:** *The lists valid during manufacture were used as basis.*

· 8.2 Exposure controls

· **Appropriate engineering controls** *No further data; see item 7.*

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Immediately remove all soiled and contaminated clothing

Avoid contact with the eyes and skin.

Do not eat or drink while working.

· **Respiratory protection:** *Not required.*

· **Hand protection**



The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material is dependant on the penetration times, rates of diffusion and degradation.

· **Material of gloves**

Suitable chemical-resistant gloves (EN 374) even with longer direct contact (recommendation: protection index 6, corresponding > 480 minutes permeation time (permeation) according to EN 374) e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and others. Due to several factors that can influence (e.g. temperature), it must be taken into account that the service life of a chemical glove can in practice be considerably shorter than the permeation time indicated by the test.

· **Penetration time of glove material** > 480 Minutes.

· **For prolonged contact gloves made of the following materials are suitable:**

Chloroprene and butylrubber.

Nitrile rubber

· **Eye/face protection** *Goggles recommended during refilling*

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SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Colour:	<i>Beige</i>
· Odour:	<i>Characteristic</i>
· Odour threshold:	<i>Not determined.</i>
· Melting point/freezing point:	<i>Undetermined.</i>
· Boiling point or initial boiling point and boiling range	<i>100 °C</i>
· Flammability	<i>Not applicable.</i>
· Lower and upper explosion limit	
· Lower:	<i>Not determined.</i>
· Upper:	<i>Not determined.</i>
· Flash point:	<i>Not applicable.</i>
· Auto-ignition temperature:	<i>Product is not self-igniting.</i>
· Decomposition temperature:	<i>Not determined.</i>
· pH at 20 °C	<i>7.5</i>
· Viscosity:	
· Kinematic viscosity	<i>Not determined.</i>
· Dynamic:	<i>Not determined.</i>
· Solubility	
· water:	<i>Fully miscible.</i>
· Partition coefficient n-octanol/water (log value)	<i>Not determined.</i>
· Vapour pressure:	<i>Not determined.</i>
· Density and/or relative density	
· Density at 20 °C:	<i>1.5 g/cm³</i>
· Relative density	<i>Not determined.</i>
· Vapour density	<i>Not determined.</i>

· 9.2 Other information

· Appearance:	
· Form:	<i>Paste</i>
· Important information on protection of health and environment, and on safety.	
· Explosive properties:	<i>Product does not present an explosion hazard.</i>
· Solvent content:	
· Organic solvents:	<i>0.0 %</i>
· VOC(EC%)	<i>0.0 %</i>
· Change in condition	
· Evaporation rate	<i>Not determined.</i>

· Information with regard to physical hazard classes

· Explosives	<i>Void</i>
· Flammable gases	<i>Void</i>
· Aerosols	<i>Void</i>
· Oxidising gases	<i>Void</i>
· Gases under pressure	<i>Void</i>
· Flammable liquids	<i>Void</i>
· Flammable solids	<i>Void</i>

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· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** *No further relevant information available.*
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** *No decomposition if used according to specifications.*
- **10.3 Possibility of hazardous reactions** *No dangerous reactions known.*
- **10.4 Conditions to avoid** *No further relevant information available.*
- **10.5 Incompatible materials:** *No further relevant information available.*
- **10.6 Hazardous decomposition products:** *No dangerous decomposition products known.*

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** *Based on available data, the classification criteria are not met.*

· LD/LC50 values relevant for classification:

124-17-4 2-(2-butoxyethoxy)ethyl acetate

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)

55965-84-9 mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

Oral	LD50	64-66 mg/kg (rat)
Dermal	LD50	87.12 mg/kg (rat)

- **Skin corrosion/irritation** *Possible irritation with prolonged or frequent contact.*
- **Serious eye damage/irritation** *Based on available data, the classification criteria are not met.*
- **Respiratory or skin sensitisation** *Based on available data, the classification criteria are not met.*
- **Germ cell mutagenicity** *Based on available data, the classification criteria are not met.*
- **Carcinogenicity** *Based on available data, the classification criteria are not met.*
- **Reproductive toxicity** *Based on available data, the classification criteria are not met.*
- **STOT-single exposure** *Based on available data, the classification criteria are not met.*
- **STOT-repeated exposure** *Based on available data, the classification criteria are not met.*
- **Aspiration hazard** *Based on available data, the classification criteria are not met.*

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· 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

124-17-4 2-(2-butoxyethoxy)ethyl acetate

Oral	LOAEL	1,260 mg/kg (rat)
	NOAEL	315 mg/kg (rat)

55965-84-9 mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

LC50/96h	0.28 mg/l (LM)
	0.188 mg/l (OM)
	EC50/48 h 0.126 mg/l (DM)

· **12.2 Persistence and degradability** *No further relevant information available.*

· **12.3 Bioaccumulative potential** *No further relevant information available.*

· **12.4 Mobility in soil** *No further relevant information available.*

· 12.5 Results of PBT and vPvB assessment

· **PBT:** *Not applicable.*

· **vPvB:** *Not applicable.*

· 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

· 12.7 Other adverse effects

· Additional ecological information:

· General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Do not allow large quantities to reach sewage system or surface water.

According to the criteria of the EU-classification and labelling "dangerous for environment"(93/21/EWG) the substance/ the product has to be classified as non-hazardous for the environment.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· **Recommendation** *Smaller quantities can be disposed of with household waste.*

· Uncleaned packaging:

· **Recommendation:** *Disposal must be made according to official regulations.*

· **Recommended cleansing agents:** *Warm water, if necessary together with cleansing agents.*

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SECTION 14: Transport information

· 14.1 UN number or ID number · ADR, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	Void
· 14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable.
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	Not classified as hazardous under transport regulations.
· UN "Model Regulation":	Void

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I *None of the ingredients is listed.*
- National regulations:
- Waterhazard class: *Water hazard class 1 (Self-assessment): slightly hazardous for water.*
- Other regulations, limitations and prohibitive regulations
- Substances of very high concern (SVHC) according to REACH, Article 57
- None of the ingredients is listed.*
- 15.2 Chemical safety assessment: *A Chemical Safety Assessment has not been carried out.*

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant phrases
- H301 Toxic if swallowed.*
- H302 Harmful if swallowed.*
- H310 Fatal in contact with skin.*
- H314 Causes severe skin burns and eye damage.*

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*H315 Causes skin irritation.**H317 May cause an allergic skin reaction.**H318 Causes serious eye damage.**H330 Fatal if inhaled.**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.*

- **Department issuing SDS:** R&D department

- **Contact:** Ing. T.W. Breeuwer

- **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 2: Acute toxicity – Category 2

Acute Tox. 1: Acute toxicity – Category 1

Skin Corr. 1C: Skin corrosion/irritation – Category 1C

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1A: Skin sensitisation – Category 1A

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

- *** Data compared to the previous version altered.**