

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 22.03.2021

Version number 1

Revision: 22.03.2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking· **1.1 Product identifier**· Trade name: **326 UV-CareShield**

· Article number: 326

· UFI: W850-F0GY-A004-1JAN

· **1.2 Relevant identified uses of the substance or mixture and uses advised against***No further relevant information available.*· **Application of the substance / preparation** *On-site UV Coating for linoleum*· **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)30-2748888. (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***Skin Irrit. 2 H315 Causes skin irritation.**Eye Irrit. 2 H319 Causes serious eye irritation.**Skin Sens. 1 H317 May cause an allergic skin reaction.**STOT SE 3 H335 May cause respiratory irritation.*· **2.2 Label elements**· **Labelling according to Regulation (EC) No 1272/2008***The product is classified and labelled according to the CLP regulation.*· **Hazard pictograms**

GHS07

· **Signal word** *Warning*· **Hazard-determining components of labelling:***glycerol, propoxylated, esters with acrylic acid*

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*triethylamine**pentaerythritol tetraacrylate**phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide**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)***· Hazard statements***H315 Causes skin irritation.**H319 Causes serious eye irritation.**H317 May cause an allergic skin reaction.**H335 May cause respiratory irritation.***· Precautionary statements***P261 Avoid breathing vapours.**P280 Wear protective gloves / eye protection / face protection.**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.**P312 Call a POISON CENTER/doctor if you feel unwell.**P321 Specific treatment (see on this label).**P403 Store in a well-ventilated place.**P501 Dispose of contents/container to afgiftepunt chemisch afval.***· Labelling of packages where the contents do not exceed 125 ml****· Hazard pictograms**

GHS07

· Signal word *Warning***· Hazard-determining components of labelling:***glycerol, propoxylated, esters with acrylic acid**triethylamine**pentaerythritol tetraacrylate**phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide**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)***· Hazard statements***H317 May cause an allergic skin reaction.***· Precautionary statements***P261 Avoid breathing dust/fume/gas/mist/vapours/spray.**P272 Contaminated work clothing should not be allowed out of the workplace.**P280 Wear protective gloves.**P321 Specific treatment (see on this label).**P501 Dispose of contents/container in accordance with local/regional/national/international regulations.***· 2.3 Other hazards****· Results of PBT and vPvB assessment****· PBT:** *Not applicable.***· vPvB:** *Not applicable.*

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SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

· Description:

Water borne UV-curable lacquer based on a mixture of polyurethanes, acrylate functional mono- and copolymers, photo-initiator and additives.

· Dangerous components:

CAS: 52408-84-1	glycerol, propoxylated, esters with acrylic acid ⚠ Eye Irrit. 2, H319; Skin Sens. 1, H317	>5-10%
CAS: 4986-89-4 EINECS: 225-644-1	pentaerythritol tetraacrylate ⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	>1-5%
CAS: 121-44-8 EINECS: 204-469-4	triethylamine ⚠ Flam. Liq. 2, H225; ⚠ Acute Tox. 3, H311; Acute Tox. 3, H331; ⚠ Skin Corr. 1A, H314; ⚠ Acute Tox. 4, H302; STOT SE 3, H335	>1-5%
CAS: 162881-26-7 ELINCS: 423-340-5	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide ⚠ Skin Sens. 1A, H317; Aquatic Chronic 4, H413	<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:** Immediately remove any clothing soiled by the product.

· After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side/recovery position for transportation.

· After skin contact:

Immediately remove contaminated clothing, wash with water and soap and rinse thoroughly.

· 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 then drink plenty of water, consult physician immediately.

· 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

Formation of toxic gases is possible during heating or in case of fire.

· 5.3 Advice for firefighters

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

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SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Particular danger of slipping on leaked/spilled product.

· 6.2 Environmental precautions: *Do not let product enter drains. Avoid subsoil penetration.*

· 6.3 Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

· 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

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· 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:

Keep container tightly sealed.

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

· **Additional information about design of technical facilities:** *No further data; see item 7.*

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

121-44-8 triethylamine

WEL Short-term value: 17 mg/m³, 4 ppm

Long-term value: 8 mg/m³, 2 ppm

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· DNELs

4986-89-4 pentaerythritol tetraacrylate

Dermal DNEL 1.04 mg/kg KG/d (Systematic)

Inhalative DNEL 7.35 mg/m³ (Systematic)

121-44-8 triethylamine

Dermal DNEL 12.1 mg/kg KG/d (wrk)

Inhalative DNEL 12.6 mg/m³ (wrk)

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· **PNECs****4986-89-4 pentaerythritol tetraacrylate**

PNEC mg/l	0.00032 mg/l (Sea Water)
	0.0032 mg/l (Fresh Water)

121-44-8 triethylamine

PNEC mg/l	0.064 mg/l (Fresh Water)
	0.1992 mg/l (Fresh Water Sediment)
PNEC mg/kg	2.361 mg/kg (Soil)

· **Additional information:** *The lists valid during manufacture were used as basis.*· **8.2 Exposure controls**· **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**Wash hands before breaks and at the end of work.**Do not inhale gases / fumes / aerosols.**Avoid contact with the eyes and skin.*· **Respiratory protection:** *Not necessary if room is well-ventilated.*· **Protection of hands:***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***Use chemical resistant gloves, classified under EN 374: glove for protection against chemicals and microorganisms.**Nitrile rubber glove material provides a good barrier. When prolonged or frequently repeated contact can occur, gloves with protection class 6 (breakthrough time greater than 480 minutes according to EN 374) are recommended. When only brief contact is expected, gloves with a protection class 1 or higher (breakthrough time greater than 10 minutes according to EN 374) are recommended.*· **Penetration time of glove material***The exact break through time has to be established by the manufacturer of the protective gloves and has to be observed.*· **For prolonged contact gloves made of the following materials are suitable:** *Nitrile rubber*· **Eye protection:***Tightly sealed goggles**Tightly sealed goggles by risk of splashing.*

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SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

· Form:	Fluid
· Colour:	White, milky
· Odour:	Characteristic
· Odour threshold:	Not determined.

· pH-value at 20 °C: 8

· Change in condition

· Melting point/freezing point:	Undetermined.
· Initial boiling point and boiling range:	100 °C

· Flash point: Not applicable.

· Flammability (solid, gas): Not applicable.

· Decomposition temperature: Not determined.

· Auto-ignition temperature: Product is not self-igniting.

· Explosive properties: Product does not present an explosion hazard.

· Explosion limits:

· Lower:	Not determined.
· Upper:	Not determined.

· Vapour pressure at 20 °C: 23 hPa

· Density at 20 °C: 1.05 g/cm³

· Relative density: Not determined.

· Vapour density: Not determined.

· Evaporation rate: Not determined.

· Solubility in / Miscibility with water:

Fully miscible.

· Partition coefficient: n-octanol/water: Not determined.

· Viscosity:

· Dynamic:	Not determined.
· Kinematic at 20 °C:	35 s (DIN 53211/4)

· 9.2 Other information: No further relevant information available.

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.

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· **10.6 Hazardous decomposition products:** *No dangerous decomposition products known.*

SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**

· **Acute toxicity** *Based on available data, the classification criteria are not met.*

· **LD/LC50 values relevant for classification:**

4986-89-4 pentaerythritol tetraacrylate

Oral	LD50	540 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)

121-44-8 triethylamine

Oral	LD50	460 mg/kg (rat)
Dermal	LD50	570 mg/kg (rabbit)

· **Primary irritant effect:**

· **Skin corrosion/irritation**

Causes skin irritation.

· **Serious eye damage/irritation**

Causes serious eye irritation.

· **Respiratory or skin sensitisation**

May cause an allergic skin reaction.

· **Additional toxicological information:**

· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

· **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**

May cause respiratory irritation.

· **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.*

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

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.*

· **Ecotoxicological effects:**

· **Behaviour in sewage processing plants:**

By adding low concentrations to the process in biological wastewater treatment installations disturbance of the degradation of activated sludge is not expected.

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- **Other information:**

The product is not examined. The judgement is lead down of these products with similar structure or construction.

- **Additional ecological information:**

- **General notes:**

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

Avoid transfer into the environment.

Due to available data on eliminability/decomposition and bioaccumulation potential a prolonged damage of the environment is unlikely.

- **12.5 Results of PBT and vPvB assessment**

- **PBT:** *Not applicable.*

- **vPvB:** *Not applicable.*

- **12.6 Other adverse effects** *No further relevant information available.*

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

- **Recommendation**

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

- **European waste catalogue**

HP4	Irritant - skin irritation and eye damage
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- **Uncleaned packaging:**

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

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

SECTION 14: Transport information

- **14.1 UN-Number**

- **ADR, IMDG, IATA** *Void*

- **14.2 UN proper shipping name**

- **ADR, 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:**

Not applicable.

- **14.6 Special precautions for user**

Not applicable.

- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

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· UN "Model Regulation":	Void
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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.*
- REGULATION (EC) No 1907/2006 ANNEX XVII *Conditions of restriction: 3*

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
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<i>None of the ingredients is listed.</i>

- National regulations:
- Other regulations, limitations and prohibitive regulations
- Substances of very high concern (SVHC) according to REACH, Article 57
- 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

H225 *Highly flammable liquid and vapour.*
 H302 *Harmful if swallowed.*
 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.*
 H319 *Causes serious eye irritation.*
 H331 *Toxic if inhaled.*
 H335 *May cause respiratory irritation.*
 H411 *Toxic to aquatic life with long lasting effects.*
 H413 *May cause long lasting harmful effects to aquatic life.*

· 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)*
 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*

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*SVHC: Substances of Very High Concern**vPvB: very Persistent and very Bioaccumulative**Flam. Liq. 2: Flammable liquids – Category 2**Acute Tox. 4: Acute toxicity – Category 4**Acute Tox. 3: Acute toxicity – Category 3**Skin Corr. 1A: Skin corrosion/irritation – Category 1A**Skin Irrit. 2: Skin corrosion/irritation – Category 2**Eye Irrit. 2: Serious eye damage/eye irritation – Category 2**Skin Sens. 1: Skin sensitisation – Category 1**Skin Sens. 1A: Skin sensitisation – Category 1A**STOT SE 3: Specific target organ toxicity (single exposure) – Category 3**Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2**Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4*

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