eurocol

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Safety data sheet according to UK REACH

Printing date 10.09.2024

Version number 4

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

· 1.1 Product identifier

- · Trade name: 311 TopCoat Component B
- Article number: 311-B
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.

Application of the substance / preparation Lacquer

· 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 6271620 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

Acute Tox. 4 H332 Harmful if inhaled.

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 GB CLP regulation.
- [•] Hazard pictograms



· Signal word Warning

• Hazard-determining components of labelling: Aliphatic polyisocyanate

Hazard statements

H332 Harmful if inhaled. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation.

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· Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER/doctor if you feel unwell.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

From 24 August 2023, adequate training must be undertaken prior to industrial or commercial use. Contains isocyanates. 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 Chemical characterisation: Mixtures

• **Description:** Polyisocynate-prepolymer on a diphenylmethan-diisocyanate base (solvent-free)

· Dangerous components:		
CAS: 28182-81-2	Aliphatic polyisocyanate	>50-100%
NLP: 500-060-2	🚸 Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	
CAS: 666723-27-9	Aliphatic polyisocyanate	>10-25%
	♦ Acute Tox. 3, H331; \$\style Skin Sens. 1, H317; STOT SE 3, H335; Aquatic Chronic 3, H412	
Additional information. For the wording of the listed because refer to eaction 16		

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:
- Involve doctor immediately.

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- 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: Wash immediately with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: Drink plenty of water and provide fresh air. Call a doctor 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** *Symptomatic treatment.*

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents: Carbon dioxide

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Fire-extinguishing powder For lager fires also sprayed water. Use fire extinguishing methods suitable to surrounding conditions. 5.2 Special hazards arising from the substance or mixture In case of fire, the following can be released: Carbon monoxide (CO) Carbon dioxide Nitrogen oxides (NOx) Isocyanate fumes Hydrogen cyanide (HCN) (Traces) Further harmful conflagration gases and fumes 5.3 Advice for firefighters · Protective equipment: Wear self-contained respiratory protective device. Wear fully protective suit. Mouth respiratory protective device. Additional information Collect contaminated fire fighting water separately. It must not enter the sewage system. Cool endangered receptacles with water spray. Ensure adequate means of retaining the water used for extinguishing. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

 6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation Keep away from ignition sources.
 6.2 Environmental precautions: Do not allow to penetrate the ground/soil.

Dilute with plenty of water.

6.3 Methods and material for containment and cleaning up:

Remove mechanically: Cover remaisns with damp, liquid-binding material (e.g. sawdust, chemical binders on a calcium silicate-hydrate base, sand). After approx. 1 hour, take up and place in refuse container. Don not close (CO2-development!) Keep damp and allow to stand in a safe place outdoors for several days.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.

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. Do not close waste container tight; CO2 development!

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Use only in well ventilated areas. Prevent formation of aerosols. Product may not come in contact with water.

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[.] Information about fire - and explosion protection: Fumes can combine with air to form an explosive mixture.	(Contd. of page 3)
 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. Store only in the original receptacle. Prevent any seepage into the ground. Information about storage in one common storage facility: Suitable material for containers and pipes: Light metals and their alloys. Further information about storage conditions: 	
Recommended storage temperature between 15 and 25°C. Store receptacle in a well ventilated area. Protect from humidity and water. Protect from frost. Keep container tightly sealed. • 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: Use only in well-ventilate • Ingredients with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values monitored at the workplace.	d areas. s that have to be
DNELS	
28182-81-2 Aliphatic polyisocyanate	
Inhalative DNEL Inhalative long terme 0.5 /mg/kg (worker)	

· PNECs

28182-81-2 Aliphatic polyisocyanate

PNEC mg/kg 532 mg/kg (Soil)

266.7 mg/kg (Fresh Water Sediment)

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

· 8.2 Exposure controls

· Personal protective equipment:

· General protective and hygienic measures:

The handling of this product is not recommended for persons with respiratory system and skin hypersensitivity (asthma, chronic bronchititis, chronic skin desease).

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

Use skin protection cream for skin protection.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

[•] Respiratory protection:

In case of a risk of inhaling, wear half mask with combination filter for organic vapours and particles. Filter A/P2

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material is dependent on the penetration times, rates of diffusion and degradation.

• Material of gloves

The selection of suitable gloves does not only depend on the material, but also on further aspects of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Nitrile rubber

Butyl rubber, BR

Penetration time of glove material

The determined penetration times according to EN 16523-1:2015 were not determined under field conditions. A maximum wear time is therefore recommended corresponding to 50% of the stated penetration time.

The exact break through time has to be established by the manufacturer of the protective gloves and has to be observed.

- Eye protection: Tightly sealed goggles by risk of splashing.
- · Body protection: Protective work clothing

SECTION 9: Physical and chemic	cal properties
 9.1 Information on basic physical and c General Information Appearance: 	hemical properties
Form:	Fluid
Colour:	Colourless
· Odour:	Odourless
[·] Odour threshold:	Not determined.
· pH-value:	Not determined.
 Change in condition Melting point/freezing point: Initial boiling point and boiling range: 	Undetermined. Undetermined.
· Flash point:	185 °C
· Flammability (solid, gas):	Not applicable.
· Auto-ignition temperature:	~445 °C
· Decomposition temperature:	са. 181 °C
· Ignition temperature:	Product is not self-igniting.
· Explosive properties:	Product does not present an explosion hazard.
[·] Explosion limits: Lower: Upper:	Not determined. Not determined.
· Vapour pressure at 20 °C:	5 hPa
Density at 20 °C:	1.15 g/cm³
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· · · · ·
Not determined.
Not determined.
Not determined.
Fully miscible.
Not determined.
Not determined.
Not determined.
<3 %
0.0 %
100.0 %
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: To avoid thermal decomposition do not overheat.
- 10.3 Possibility of hazardous reactions
- Exothermic reaction with amines and alcohols. Danger of bursting.
- · 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials:
- Amines Water
- Alcohols
- 10.6 Hazardous decomposition products:
- None if used properly.
- None if stored properly.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

Acute toxicity

Harmful if inhaled.

28182-81-	2 Aliphatic	c polyisoc	yanate

		>2,000 mg/kg (rabbit)
Dermal	LD50	>2,000 mg/kg (rat)
Oral	LD50	>2,500 mg/kg (rat)

Inhalative LC50/4 h 0.39 mg/kg (rat)

Primary irritant effect:

• Skin corrosion/irritation Dries skin out.

• Serious eye damage/irritation Based on available data, the classification criteria are not met.

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· Respiratory or skin sensitisation

- May cause an allergic skin reaction.
- · Additional toxicological information:

Special characteristics/effects of isocyanates: In case of over-exposure - especially when spraying isocyanate based varnishes without protective measures - there is a danger of a concentrationdependent, irritating effect on eyes, nose, throat, and respiratory tract. The delayed appearance of symptoms and the development of hypersensitivity (trouble breathing, cough, asthma) are possible. For hypersensitive persons, reaction may be triggered by very low isocyanate concentrations, also below the TLV value. In case of prolonged contact with skin, tanning and irritating effects are possible.

- CMR effects (carcinogenity, 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: No further relevant information available.
- 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.
- Additional ecological information:
- · General notes: Do not discharge into ground water, in surface water or in the sewer system.
- · 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

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Not hardened material must be disposed of as hazardous wast according to officail regulations. Hardened product remains may be disposed of as building rubble or put into househould garbage.

- · 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 informa	tion	
· 14.1 UN-Number · ADR, ADN, IMDG, IATA	Void	
 14.2 UN proper shipping name ADR, ADN, IMDG, IATA 	Void	
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· 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: 	Νο
[·] 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.	
· 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

· Poisons Act

Regulated explosives precursors

None of the ingredients is listed.

· Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

None of the ingredients is listed.

[•] Reportable poisons

None of the ingredients is listed.

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I 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
H317 May cause an allergic skin reaction.
H331 Toxic if inhaled.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H412 Harmful 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)

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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 (UK REACH) PNEC: Predicted No-Effect Concentration (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 3: Acute toxicity – Category 3 Acute Tox. 4: Acute toxicity – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3 * *** Data compared to the previous version altered.**

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