eurocol

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Revision: 10.07.2023

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

Printing date 10.07.2023

Version number 9.1 (replaces version 9.0)

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

- · 1.1 Product identifier
- · Trade name: 159 Eurowood MS Pro
- 1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

- · Application of the substance / the mixture Adhesives
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Forbo Eurocol Deutschland GmbH August-Röbling-Straße 2 99091 Erfurt GERMANY

Tel.: +49 361 730 41 0 Fax: +49 (0)361 73041-92

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· Further information obtainable from:

Laboratory

Elisabeth Reinhardt

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· 1.4 Emergency telephone number:

Poison information center for the states of Mecklenburg-Western Pomerania, Saxony, Saxony-Anhalt and Thuringia:

+49-361-730730

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



Skin Sens. 1

H317 May cause an allergic skin reaction.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- · 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

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· Hazard-determining components of labelling:

trimethoxyvinylsilane

Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

· Hazard statements

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

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

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P362+P364 Take off contaminated clothing and wash it before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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.

SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
- · **Description:** Mixture of substances listed below with nonhazardous additions.

· Dangerous components:	Dangerous components:	
CAS: 28553-12-0 EINECS: 249-079-5	diisononyl phthalate substance with a Community workplace exposure limit	10-25%
CAS: 2768-02-7 EINECS: 220-449-8	trimethoxyvinylsilane \$\infty Flam. Liq. 3, H226; \$\infty Acute Tox. 4, H332; Skin Sens. 1B, H317	≥1-≤2.5%
Reg.nr.: 01-2119491304-40-XXXX	Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1A, H317	
CAS: 2530-83-8 EINECS: 219-784-2	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane Acute Tox. 3, H331; Eye Dam. 1, H318	<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 position for transportation.

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· After skin contact:

After contact with skin, wash immediately with plenty of soap and water. Take off all contaminated clothing immediately and wash before wearing again. In case of skin irritation, consult a doctor.

- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing:

Do not induce vomiting. Rinse out mouth and drink plenty of water. Consult a doctor if symptoms persist.

- 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:

Use fire extinguishing methods suitable to surrounding conditions.

CO2, extinguishing powder

Alcohol-resistant foam. Water spray. Carbon dioxide. Extinguishing powder.

· 5.2 Special hazards arising from the substance or mixture

In case of fire, formation of toxic gases possible. In case of fire may be released: CO and CO2

- 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

Particular danger of slipping on leaked/spilled product.

· 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

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

· 6.3 Methods and material for containment and cleaning up:

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.

SECTION 7: Handling and storage

- · 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- · 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: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Recommended storage temperature: 5-30°C
- · 7.3 Specific end use(s) No further relevant information available.

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	l parameters		
	s with limit values that requi	ire monitoring at th	ne workplace:
	0 diisononyl phthalate		
WEL Long	g-term value: 5 mg/m³		
DNELs			
28553-12-0	0 diisononyl phthalate		
Oral	DNEL Long-term - oral, sys		4.4 mg/kg_bw/day (general public)
Dermal	$DNEL\ Long\text{-}term-dermal,$	systemic effects	366 mg/kg_bw/d (Worker)
			220 mg/kg_bw/d (general public)
Inhalative	DNEL Long-term – inhalatio	on, systemic effects	$51.72 \text{ mg/m}^3/d \text{ (Worker)}$
			15.3 mg/m³/d (general public)
	trimethoxyvinylsilane		
Oral	DNEL Long-term - oral, sys		0.3 mg/kg_bw/day (general public)
Dermal	DNEL Long-term – dermal,	systemic effects	3.9 mg/kg_bw/d (Worker)
			7.8 mg/kg_bw/d (general public)
Inhalative	DNEL Long-term – inhalatio	on, systemic effects	$27.6 \text{ mg/m}^3/d \text{ (Worker)}$
			6.7 mg/m³/d (general public)
1065336-9	1-5 Reaction mass of bis(1 pentamethyl-4-piperidyl		hyl-4-piperidyl) sebacate and methyl 1,2,2,6,
Oral	DNEL Long-term - oral, systemic effects		0.05 mg/kg_bw/day (general public)
Dermal	DNEL Long-term – dermal, systemic effects		0.5 mg/kg_bw/d (Worker)
			0.25 mg/kg_bw/d (general public)
Inhalative	DNEL Long-term – inhalati	on, systemic effects	$0.68 \text{ mg/m}^3/d \text{ (Worker)}$
			0.17 mg/m³/d (general public)
2530-83-8	[3-(2,3-epoxypropoxy)propy	l]trimethoxysilane	
Dermal	DNEL Long-term – dermal,	systemic effects	21 mg/kg_bw/d (Worker)
Inhalative	DNEL Long-term – inhalati	on, systemic effects	147 mg/m³/d (Worker)
PNECs			
28553-12-0	0 diisononyl phthalate		
	rt term soil	30 mg/kg (teresstri	c organisms)
2768-02-7	trimethoxyvinylsilane	- -	
PNEC shor	rt term, fresh water	0.4 mg/l (Aquatic o	organisms)
PNEC short term, sea water		0.04 mg/l (Aquatic organisms)	
PNEC short term, sewage plant		6.6 mg/l (Aquatic organisms)	
PNEC show	rt term fresh water sediment	1.5 mg/kg (Aquatic organisms)	
PNEC show	rt term soil	0.06 mg/kg (Aquatic organisms)	
PNEC shor	rt term sea water sediment	0.15 mg/kg (Aquatic organisms)	
PNEC shor	rt term, intermittent releases	2.4 mg/l (Aquatic o	organisms)
1065336-9	1-5 Reaction mass of bis(1 pentamethyl-4-piperidyl		hyl-4-piperidyl) sebacate and methyl 1,2,2,6,
PNEC shor		0.002 mg/l (Aquati	c organisms)
PNEC short term, fresh water PNEC short term, sea water		0 mg/l (Aquatic or	
PNEC shor	i term, seu water		

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PNEC short term fresh water sediment	
PNEC short term soil	0.21 mg/kg (teresstric organisms)
PNEC short term sea water sediment	0.11 mg/kg (Aquatic organisms)
PNEC short term, intermittent releases	0.009 mg/l (Aquatic organisms)
2530-83-8 [3-(2,3-epoxypropoxy)propy	vl]trimethoxysilane
PNEC short term, fresh water	1 mg/l (Aquatic organisms)
PNEC short term, sea water	0.1 mg/l (Aquatic organisms)
PNEC short term fresh water sediment	3.6 mg/kg (Aquatic organisms)
PNEC short term soil	0.14 mg/kg (teresstric organisms)
PNEC short term sea water sediment	0.36 mg/kg (Aquatic organisms)

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

- · Respiratory protection: Use suitable respiratory protective device when high concentrations are present.
- · Hand protection

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation



Protective gloves

· Material of gloves

PVC gloves

Nitrile rubber, NBR

Butyl rubber, BR

Penetration time of glove material

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

· Eye/face protection



Safety glasses

Tightly sealed goggles

SECTION 9: Physical and chemical properties

- · 9.1 Information on basic physical and chemical properties
- General Information

· Colour: Beige

· Odour: Characteristic
· Odour threshold: Not determined.

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	(Contd. of page
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling	
range	Undetermined.
Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	Not applicable.
Decomposition temperature:	Not determined.
pН	Mixture is non-soluble (in water).
Viscosity:	
Kinematic viscosity	Not determined.
Viscosity at 100°C:	
Dynamic at 20 °C:	80,000 mPas
Solubility	
water:	Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density	
Density at 20 °C:	1.68 g/cm^3
Relative density	Not determined.
Density (@15°C)	Not determined.
Vapour density	Not determined.
9.2 Other information	
Appearance:	
Form:	Viscous
Important information on protection of health and environment, and on safety.	d
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Solvent content:	1
Organic solvents:	<0.2 %
VOC (EC)	0.19 %
Change in condition	
Evaporation rate	Not applicable.
Information with regard to physical hazard classe	
	Void
Explosives Flammable gases	Void
Aerosols	Void Void
Oxidising gases	Void Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void Void
Substances and mixtures, which emit flammable	, om
gases in contact with water	Void
Oxidising liquids	Void Void
Oxidising solids	Void
Organic peroxides	Void Void

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· 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	· LD/LC50 values relevant for classification:		
28553-12-	0 diisonony	l phthalate	
Oral	LD50	>10,000 mg/kg (rat)	
2768-02-7	trimethoxy	vinylsilane	
Oral	LD50	7,120-7,236 mg/kg (rat)	
Dermal	LD50	3,200 mg/kg (rabbit)	
Inhalative	LC50 (4h)	16.8 mg/l (rat)	
1065336-9	1-5 Reactio	on mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-	
	pentam	ethyl-4-piperidyl sebacate	
Oral	LD50	3,230 mg/kg (rat)	
Dermal	LD50	3,170 mg/kg (rat) (OECD 402)	
2530-83-8	2530-83-8 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane		
Oral	LD50	7,010 mg/kg (rat)	
Dermal	LD50	4,250 mg/kg (rabbit)	
Inhalative	LC50 (4h)	>5.3 mg/l (rat)	

- · Respiratory or skin sensitisation May cause an allergic skin reaction.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:		
I and the second	1065336-91-5 Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	
LC50 (96h) mg/ltr.	0.9 mg/ltr (Fish)	
EC50 (72h)	0.42 mg/l (algae)	
2530-83-8 [3-(2,3-	epoxypropoxy)propyl]trimethoxysilane	

EC50 (48h) 473 mg/l (daphnia)

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· 12.2 Persistenc	ce and degradability	
125643-61-0	A mixture of isomers of: C7-9-alkyl-3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate	4 (28d) %
	Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	
2530-83-8	[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	37 %

- · 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 No further relevant information available.
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms

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.

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

14.1 UN number or ID number	not voculated	
ADR, IMDG, IATA	not regulated	
14.2 UN proper shipping name		
ADR, IMDG, IATA	not regulated	
14.3 Transport hazard class(es)		
ADR, ADN, IMDG, IATA		
Class	not regulated	
14.4 Packing group		
ADR, IMDG, IATA	not regulated	
14.5 Environmental hazards:	Not applicable.	
14.6 Special precautions for user	Not applicable.	

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· UN "Model Regulation":

not regulated

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture: (Substances not listed)

None of the ingredients is listed.

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · National regulations:
- · **VOC (EU)** 3.2 g/l
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

· Disclaimer

This safety data sheet contains only safety relevant information. The information is based on the state of our knowledge at the time of revision, however, it does not constitute a guarantee of product properties, product information or product specifications and does not establish a contractual legal relationship. This document is only valid in its unchanged form. In the event of changes by third parties, the exhibitor accepts no responsibility for form and content or for any damages or claims arising from such changes. The information is not transferable to other products. If the product named in this safety data sheet is mixed, blended or processed with other materials or is subjected to processing, the information in this safety data sheet cannot be transferred to the new material produced in this way, unless expressly stated otherwise. The data sheet does not release the user from the obligation to ensure that he acts in accordance with all regulations in connection with his activity.

· Relevant phrases

H226 Flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

· Department issuing SDS: Quality Management department

· Contact:

Laboratory

Elisabeth Reinhardt

Elisabeth.Reinhardt@forbo.com

· 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 (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

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vPvB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids – Category 3 Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity - Category 4

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

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

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 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

* * Data compared to the previous version altered.