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Safety Data Sheet according to WHS Regulations

Printing date 21.12.2023 Version number 4 Revision: 21.12.2023

Hazardous according to criteria of Australian Safety and Compensation Council.

1 Identification

- · Product identifier
 - Trade name: Venus Diamond
 - · Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
 - · Application of the substance / the mixture Dental filling material
- · Details of the supplier of the safety data sheet
 - Manufacturer/Supplier:

Kulzer Australia Pty Ltd Unit 20, 53 Lorraine St PEAKHURST NSW 2210

Australia

Tel: +61 (02) 9153 0311

- · Informing department: see above
- · Emergency telephone number:

Poison Information Number: Australia 13 11 26 & New Zealand 0800 764 766

2 Hazard(s) Identification

· Classification of the substance or mixture

Skin Sens. 1 H317 May cause an allergic skin reaction.

- · Label elements
 - · GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

· Hazard pictograms



GHS07

- · Signal word Warning
- · Hazard-determining components of labelling:

2-Propenoic acid, (octahydro-4,7-methano-1H-indene-5 -diyl)bis(methyleneiminocarbonyloxy-2,1-ethanediyl) ester

7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate 2-Propenoic a cid, 1,1'-[(octahydro-4,7-methano-1H-indene-5,?-diyl) bis(methyleneoxycarbonylamino-2,1-ethanediyl)] ester triethylen glycol dimethacrylate

· Hazard statements

May cause an allergic skin reaction.

Precautionary statements

Avoid release to the environment.

Wear protective gloves / eye protection.

Wear protective clothing.

IF ON SKIN: Wash with plenty of soap and water.

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

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- · Other hazards -
 - · Results of PBT and vPvB assessment
 - · **PBT:** Not applicable. · **vPvB:** Not applicable.

3 Composition and Information on Ingredients

- · Chemical characterisation: Mixtures
 - Description: -

Description:				
	is components:			
861437-11-8	2-Propenoic acid, (octahydro-4,7-methano-1H-indene-5 -diyl) bis(methyleneiminocarbonyloxy-2,1-ethanediyl) ester Skin Sens. 1, H317	<i>≥</i> 5- <i>≤</i> 10%		
72869-86-4	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate Skin Sens. 1B, H317	≥1-≤5%		
945656-78-0	2-Propenoic acid, 1,1'-[(octahydro-4,7-methano-1H-indene-5,?-diyl) bis(methyleneoxycarbonylamino-2,1-ethanediyl)] ester Skin Sens. 1, H317	<i>≥</i> 1- <i>≤</i> 5%		
109-16-0	triethylen glycol dimethacrylate Skin Sens. 1B, H317	≥1-≤5%		

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

4 First Aid Measures

- · After inhalation Supply fresh air; consult doctor in case of symptoms.
- After skin contact instantly wash with water and soap and rinse thoroughly.
- · After eye contact Rinse opened eye for several minutes under running water.
- · After swallowing

Rinse out mouth and then drink plenty of water.

In case of persistent symptoms consult doctor.

Seek immediate medical advice.

- · Information for doctor
 - · Most important symptoms and effects, both acute and delayed No further relevant information available.
 - · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire Fighting Measures

Suitable extinguishing agents

CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. Use fire fighting measures that suit the environment.

Special hazards arising from the substance or mixture

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

· Protective equipment: No special measures required.

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· Additional information -

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6 Accidental Release Measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: Dilute with much water.
- Methods and material for containment and cleaning up:

Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues).

Send for recovery or disposal in suitable containers.

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 information on disposal.

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7 Handling and Storage

- · Handling
 - · Precautions for safe handling

Please observe the additional instructions in the product's instructions for use.

- Information about protection against explosions and fires: No special measures required.
- · Storage
 - · Requirements to be met by storerooms and containers: No special requirements.
 - Information about storage in one common storage facility: Not required.
 - · Further information about storage conditions: None.
- · Specific end use(s) No further relevant information available.

8 Exposure controls and personal protection

- · Additional information about design of technical systems: No further data; see section 7.
- Components with critical 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.

Not required.

DNELs 72869-86-4 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate				
Oral	general population, long term, systemic	0.3 mg/Kg (not defined)		
Dermal	worker industrial, long term, systemic	1.3 mg/Kg/d (not defined)		
	general population, long term, systemic	0.7 mg/Kg/d (not defined)		
Inhalative	worker industrial, long term, systemic	3.3 mg/m3 (not defined)		
	general population, long term, systemic	0.6 mg/m3 (not defined)		
109-16-0 triethylen glycol dimethacrylate				
Oral	general population, long term, systemic	8.33 mg/Kg (not defined)		
Dermal	worker industrial, long term, systemic	13.9 mg/Kg/d (not defined)		
		(Contd. on pag		



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				(Contd. of page 3
		-	8.33 mg/Kg/d (not defined)	
Inhalative	worker industrial, long te		48.5 mg/m3 (not defined)	
	general population, long	term, systemic	14.5 mg/m3 (not defined)	
131-57-7 (Oxybenzone			
Oral	general population, long	term, systemic		
Dermal	worker industrial, long te	rm, systemic	39 mg/Kg/d (not defined)	
	general population, long		20 mg/Kg/d (not defined)	
Inhalative	worker industrial, long te	rm, systemic	27.7 mg/m3 (not defined)	
	general population, long	term, systemic	6.8 mg/m3 (not defined)	
· PNI	ECs			
72869-86-	4 7,7,9(or 7,9,9)-trime bismethacrylate	thyl-4,13-dio	xo-3,14-dioxa-5,12-diazahexa	decane-1,16-diyl
freshwate	r	0.01 mg/l (not	defined)	
marine wa	nter	0.001 mg/l (no	t defined)	
sewage tre	eatment plant	3.61 mg/l (not	defined)	
sediment,	dry weight, freshwater	4.56 mg/Kg (n	ot defined)	
sediment,	dry weight, marine water	0.46 mg/Kg (n	ot defined)	
soil, dry w	eight	0.91 mg/Kg (n	ot defined)	
109-16-0 1	triethylen glycol dimetha	acrylate		
freshwate	r	0.016 mg/l (no	t defined)	
marine wa	nter	0.002 mg/l (no	t defined)	
•	eatment plant	1.7 mg/l (not defined)		
sediment, dry weight, freshwater		0.185 mg/Kg (not defined)		
sediment, dry weight, marine water		0.018 mg/Kg (l		
soil, dry weight		0.027 mg/Kg (I	not defined)	
	Oxybenzone			
freshwater		0.00067 mg/l (not defined)		
		0.000067 mg/l	•	
		10 mg/l (not de	efined)	
		0.066 mg/Kg (i	,	
	dry weight, marine water	. .	,	
soil, dry weight		0.013 mg/Kg (l	not defined)	

- Additional information: The lists that were valid during the compilation were used as basis.

Personal protective equipment
General protective and hygienic measures
Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

- · Breathing equipment: Not required.
- Protection of hands:

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

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

If skin contact cannot be avoided, protective gloves are recommended to avoid possible sensitization. Check protective gloves prior to each use for their proper condition. recommended

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks 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.

· Penetration time of glove material

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

For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Butyl rubber, BR Nitrile rubber, NBR

Eye protection: Safety glasses

· Body protection: Light weight protective clothing

9 Physical and Chemical Properties

· General Information

Appearance: Form:

Form: Pasty
Colour: White
Yellowish
Smell: Odourless

Odour threshold: Not determined. PH-value: Not determined.

Change in condition

• Melting point/freezing point: Not determined • Initial boiling point and boiling range: Not determined

· Flash point: >150 °C

Inflammability (solid, gaseous)
Decomposition temperature:
Self-inflammability:
Explosive properties:
Not applicable.
Not determined.
Product is not selfigniting.
Product is not explosive.

Critical values for explosion:

Lower:
Upper:
Steam pressure:
Density at 20 °C

Not determined.
Not determined.
2.23 g/cm³

Relative density
Vapour density
Evaporation rate

Not determined.
Not determined.
Not determined.

Solubility in / Miscibility with

Water: Not miscible or difficult to mix

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

Viscosity:

· dynamic: Not determined. · kinematic: Not determined.

Other information No further relevant information available.

10 Stability and Reactivity

- · Reactivity No further relevant information available.
- · Conditions to be avoided: No decomposition if used and stored according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- Hazardous decomposition products: None
- Additional information: -

11 Toxicological Information

- · Information on toxicological effects
 - · Acute toxicity Based on available data, the classification criteria are not met.
 - · LD/LC50 values that are relevant for classification:

861437-11-82-Propenoic acid, (octahydro-4,7-methano-1H-indene-5 -diyl) bis(methyleneiminocarbonyloxy-2,1-ethanediyl) ester

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

72869-86-4 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate

Oral LD50 >5,000 mg/kg (rat) (OECD 401)

Dermal LD50 >2,000 mg/kg (rat) (OECD 402)

109-16-0 triethylen glycol dimethacrylate

Oral LD50 8,300 mg/kg (rat)

Dermal LD50 >2,000 mg/kg (mouse)

131-57-7 Oxybenzone

Oral LD50 >12,800 mg/kg (rat) (OECD 401)

Dermal LD50 >16,000 mg/kg (rabbit) (OECD 402)

- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation

May cause an allergic skin reaction.

- · 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.

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· Aspiration hazard Based on available data, the classification criteria are not met.

Aquatic toxicity: S5997-17-3 Glaspulve	EC50/72h	
CC50/72h CC50/96h CC50/72h CC50/96h CC50/72h CC50/72h CC50/72h CC50/72h CC50/72h CC50/72h CC50/72h CC50/72h CC50/48h	EC50/72h >1,000 mg/l (daphnia)	
LC50/96h	LC50/96h >1,000 mg/l (fish)	
ErC50 / 72 h >1,000 mg/l (algae) 1,000 mg/l (algae) 1,000 mg/l (daphnia) 861437-11-8 2-Propenoic acid, (octahydro-4,7-methano-1H-indene-5 -diy/l. bis(methyleneiminocarbonyloxy-2,1-ethanediy/l) ester EC50/48h 24.9 mg/l (daphnia) 24.9 mg/l (daphnia) (OECD 202) 25.0 mg/l (daphnia) (OECD 203) 25.0 mg/l (daphnia) (OECD 203) 25.0 mg/l (daphnia) (OECD 203) 25.0 mg/l (daphnia) (OECD 201) 25.0 mg/l (daphnia) (OECD 202) 25.0 mg/l (daphnia) (OECD 203) 25.0 mg/l (ErC50 / 72 h	
NOEC / 72h	NOEC 72h 1,000 mg/l (algae) 1,000 mg/l (daphnia) 1,000 mg/l (daphnia) 861437-11-8 2-Propenoic acid, (octahydro-4,7-methano-1H-indene-5 -bis(methyleneiminocarbonyloxy-2,1-ethanediyl) ester EC50/48h 24.9 mg/l (daphnia) 72869-86-4 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,1 bismethacrylate EC50/48h >1.2 mg/l (daphnia) (OECD 202) LC50/96h 10.1 mg/l (fish) (OECD 203) ErC50 / 72 h >0.68 mg/l (algae) (OECD 201) NOEC / 72h 0.21 mg/l (algae) (OECD 201) 109-16-0 triethylen glycol dimethacrylate EC50/21d 51.9 mg/L (daphnia) (OECD 211) LC50/96h 16.4 mg/l (fish) (OECD 203) NOEC / 21d 32 mg/l (daphnia) (OECD 211)	
1,000 mg/l (daphnia)	1,000 mg/l (daphnia)	
861437-11-8 2-Propenoic acid, (octahydro-4,7-methano-1H-indene-5 -diyl. bis(methyleneiminocarbonyloxy-2,1-ethanediyl) ester EC50/48h 24.9 mg/l (daphnia) 72869-86-4 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diy bismethacrylate EC50/48h >1.2 mg/l (daphnia) (OECD 202) LC50/96h >1.0.1 mg/l (fish) (OECD 203) ECC50/72 h >0.68 mg/l (algae) (OECD 201) NOEC / 72h >0.21 mg/l (algae) (OECD 201) 109-16-0 triethylen glycol dimethacrylate EC50/21d 51.9 mg/L (daphnia) (OECD 211) LC50/96h NOEC / 21d 22 mg/l (daphnia) (OECD 201) NOEC / 21d 18.6 mg/l (algae) (OECD 201) NOEC / 72h 18.6 mg/l (algae) (OECD 201) 131-57-7 Oxybenzone EC50/48h 1.87 mg/l (daphnia) (OECD 202) 3.8 mg/l (fish) (OECD 203) NOEC / 72h 0.67 mg/l (algae) (OECD 201) NOEC / 72h 0.18 mg/l (fish) (OECD 203) NOEC / 74h 0.72 mg/l (fish) (OECD 203) NOEC / 74h 1.87 mg/l (daphnia) (OECD 201) NOEC / 79h 0.72 mg/l (fish) (OECD 203) NOEC / 79h 0.72 mg/l (fish) (OECD 203) NOEC / 48h 1.15 mg/l (daphnia) (OECD 202) Persistence and degradability 72869-86-4 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diy bismethacrylate Biodegradation 22 % /28d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C) 109-16-0 triethylen glycol dimethacrylate	861437-11-8 2-Propenoic acid, (octahydro-4,7-methano-1H-indene-5 - bis(methyleneiminocarbonyloxy-2,1-ethanediyl) ester EC50/48h 24.9 mg/l (daphnia) 72869-86-4 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,1 bismethacrylate EC50/48h >1.2 mg/l (daphnia) (OECD 202) LC50/96h 10.1 mg/l (fish) (OECD 203) ErC50 / 72 h >0.68 mg/l (algae) (OECD 201) NOEC / 72h 0.21 mg/l (algae) (OECD 201) 109-16-0 triethylen glycol dimethacrylate EC50/21d 51.9 mg/L (daphnia) (OECD 211) LC50/96h 16.4 mg/l (fish) (OECD 203) NOEC / 21d 32 mg/l (daphnia) (OECD 211)	
EC50/48h 24.9 mg/l (daphnia) 72869-86-4 7,79(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diy bismethacrylate EC50/48h >1.2 mg/l (daphnia) (OECD 202) 10.1 mg/l (fish) (OECD 203) >0.68 mg/l (algae) (OECD 201) NOEC /72h 0.21 mg/l (algae) (OECD 201) 16-0 triethylen glycol dimethacrylate EC50/21d LC50/96h 51.9 mg/L (daphnia) (OECD 211) 16.4 mg/l (fish) (OECD 203) NOEC /21d 32 mg/l (daphnia) (OECD 211) 16.4 mg/l (fish) (OECD 203) NOEC /21d 32 mg/l (daphnia) (OECD 211) 16.50/96h NOEC /72h 72.8 mg/l (algae) (OECD 201) 131-57-7 Oxybenzone EC50/48h 1.87 mg/l (daphnia) (OECD 202) 1.87 mg/l (daphnia) (OECD 203) 1.15 mg/l (daghnia) (OECD 201) NOEC /72h 0.18 mg/l (algae) (OECD 201) NOEC /72h 1.15 mg/l (daphnia) (OECD 202) NOEC /74h 1.15 mg/l (daphnia) (OECD 202) Persistence and degradability 72869-86-4 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diy bismethacrylate Biodegradation 22 % /28d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C) 109-16-0 triethylen glycol dimethacrylate	EC50/48h 24.9 mg/l (daphnia) 72869-86-4 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,1 bismethacrylate EC50/48h >1.2 mg/l (daphnia) (OECD 202) LC50/96h 10.1 mg/l (fish) (OECD 203) ErC50 / 72 h >0.68 mg/l (algae) (OECD 201) NOEC / 72h 0.21 mg/l (algae) (OECD 201) 109-16-0 triethylen glycol dimethacrylate EC50/21d 51.9 mg/L (daphnia) (OECD 211) LC50/96h 16.4 mg/l (fish) (OECD 203) NOEC / 21d 32 mg/l (daphnia) (OECD 211)	
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EC50/48h	bismethacrylate EC50/48h >1.2 mg/l (daphnia) (OECD 202) LC50/96h 10.1 mg/l (fish) (OECD 203) ErC50 / 72 h >0.68 mg/l (algae) (OECD 201) NOEC / 72h 0.21 mg/l (algae) (OECD 201) 109-16-0 triethylen glycol dimethacrylate EC50/21d 51.9 mg/L (daphnia) (OECD 211) LC50/96h 16.4 mg/l (fish) (OECD 203) NOEC / 21d 32 mg/l (daphnia) (OECD 211)	
CC50/48h	EC50/48h >1.2 mg/l (daphnia) (OECD 202) LC50/96h 10.1 mg/l (fish) (OECD 203) ErC50 / 72 h >0.68 mg/l (algae) (OECD 201) NOEC / 72h 0.21 mg/l (algae) (OECD 201) 109-16-0 triethylen glycol dimethacrylate EC50/21d 51.9 mg/L (daphnia) (OECD 211) LC50/96h 16.4 mg/l (fish) (OECD 203) NOEC / 21d 32 mg/l (daphnia) (OECD 211)	6-diy
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131-57-7 Oxybenzone

Biodegradation 60-70 % /28d (not defined)

- Behaviour in environmental systems:
 - · Bioaccumulative potential

131-57-7 Oxybenzone

Bloconcentration factor (BCF) | >33-<160 (fish) (OECD 305)

- Mobility in soil No further relevant information available.
- · Additional ecological information:
 - General notes:

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

Danger to drinking water if even small quantities leak into soil.

- · Results of PBT and vPvB assessment
 - · PBT: Not applicable.
 - · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
 - Recommendation

Small quantities can be polymerized by light and the cured solid material can be disposed of with the regular garbage. Larger quantities must be disposed of following the regulations of the local authorities.

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

Transport information		
UN-Number · ADG, ADN, IMDG, IATA	Void	
UN proper shipping name · ADG, ADN, IMDG, IATA	Void	
Transport hazard class(es)		
ADG, ADN, IMDG, IATA Class	Void	
Packing group · ADG, IMDG, IATA	Void	
Environmental hazards: · Marine pollutant:	No	
Special precautions for user	Not applicable.	

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	(ooman or page	٠,
· Transport in bulk according to Annex II of		
Marpol and the IBC Code	Not applicable.	
· Transport/Additional information:	-	
· UN "Model Regulation":	Void	

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Australian Inventory of Industrial Chemicals	
	silicon dioxide, chemically prepared
	diurethandimethacrylate
	triethylen glycol dimethacrylate
131-57-7	Oxybenzone
	2-ethylhexyl 4-(dimethylamino)benzoate
	2-hydroxyethyl acrylate
128-37-0	2,6-di-tert-butyl-p-cresol
	dl-bornane-2,3-dione
	Diethyl-(2,5-dihydroxyterephthalat)
579-07-7	1-phenylpropane-1,2-dione

[·] Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

These data are based on our present knowledge. However, they 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.

· 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

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)

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

vPvB: very Persistent and very Bioaccumulative Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1B: Skin sensitisation – Category 1B

* Data compared to the previous version altered.