

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

1.1. Product identifier

Product form : Mixture
Product name : NextDent C&B MFH
Product group : Trade product

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : Professional use
Use of the substance/mixture : Manufacture of 3D-printed applications for the dental industry
Use of the substance/mixture : Dentistry

Title	Use descriptors
NextDent C&B MFH	SU20

Full text of use descriptors: see section 16

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Vertex Dental
Centurionbaan 190
3769 AV Soesterberg - The Netherlands
T +31 886160400
info@vertex-dental.com - www.vertex-dental.com

1.4. Emergency telephone number

Emergency number : (Only for the purpose of informing medical personnel in cases of accidental intoxications. The emergency phone number is 24 hours/day available.)

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Mixtures/Substances: SDS EU 2015: According to Regulation (EU) 2015/830 (REACH Annex II)

Serious eye damage/eye irritation, Category 2 H319
Skin sensitisation, Category 1 H317
Hazardous to the aquatic environment — Chronic Hazard, Category 2 H411

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

GHS09

Signal word (CLP) :

Warning

Hazardous ingredients :

7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate; ethylene dimethacrylate; 2-hydroxyethyl methacrylate; diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

Hazard statements (CLP) :

H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H411 - Toxic to aquatic life with long lasting effects.

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Precautionary statements (CLP)

: P280 - Wear protective gloves, eye protection, face protection.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P273 - Avoid release to the environment.
P501 - Dispose of contents/container to an approved waste disposal plant.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	% w/w (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate	(CAS-No.) 72869-86-4 (EC-No.) 276-957-5 (REACH-no) 01-2120751202-68	50 - 75	Skin Sens. 1B, H317 Aquatic Chronic 2, H411
2-hydroxyethyl methacrylate (Note D)	(CAS-No.) 868-77-9 (EC-No.) 212-782-2 (EC Index-No.) 607-124-00-X (REACH-no) 01-2119490169-29	<25	Eye Irrit. 2, H319 Skin Sens. 1, H317
Silicon dioxide substance with national workplace exposure limit(s) (GB)	(CAS-No.) 7631-86-9 (EC-No.) 231-545-4 (REACH-no) 01-2119379499-16	1 - 5	Not classified
diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	(CAS-No.) 75980-60-8 (EC-No.) 278-355-8 (EC Index-No.) 015-203-00-X (REACH-no) 01-2119972295-29	1 - 5	Skin Sens. 1B, H317 Repr. 2, H361f Aquatic Chronic 2, H411
Ethoxylated bisphenol A dimethacrylate	(CAS-No.) 41637-38-1 (EC-No.) 609-946-4	<10	Aquatic Chronic 4, H413
ethylene dimethacrylate (Note D)	(CAS-No.) 97-90-5 (EC-No.) 202-617-2 (EC Index-No.) 607-114-00-5 (REACH-no) 01-2119965172-38	<10	STOT SE 3, H335 Skin Sens. 1, H317
Titanium dioxide substance with a Community workplace exposure limit substance with national workplace exposure limit(s) (GB)	(CAS-No.) 13463-67-7 (EC-No.) 236-675-5 (REACH-no) 01-2119489379-17	< 0,1	Not classified
mequinol; 4-methoxyphenol; hydroquinone monomethyl ether substance with national workplace exposure limit(s) (GB)	(CAS-No.) 150-76-5 (EC-No.) 205-769-8 (EC Index-No.) 604-044-00-7 (REACH-no) 01-2119541813-40	< 0,1	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Sens. 1, H317 Repr. 2, H361d Aquatic Chronic 3, H412

Specific concentration limits:

Name	Product identifier	Specific concentration limits
ethylene dimethacrylate	(CAS-No.) 97-90-5 (EC-No.) 202-617-2 (EC Index-No.) 607-114-00-5 (REACH-no) 01-2119965172-38	(C >= 10) STOT SE 3, H335

Note D : Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3.

However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words "non-stabilised".

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation

: Assure fresh air breathing. Allow the victim to rest.

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First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Immediately rinse with water for a prolonged period while holding the eyelids wide open. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures	: Evacuate unnecessary personnel.
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6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Store away from other materials.
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6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.
Hygiene measures	: Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Keep only in original container. Keep container closed when not in use. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting self-closing lids.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

mequinol; 4-methoxyphenol; hydroquinone monomethyl ether (150-76-5)

United Kingdom	WEL TWA (mg/m ³)	5 mg/m ³
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Silicon dioxide (7631-86-9)

United Kingdom	WEL TWA (mg/m ³)	6 mg/m ³ (inhalable aerosol) 2,4 mg/m ³ (respirable aerosol)
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Titanium dioxide (13463-67-7)		
EU	Local name	Titanium dioxide
EU	Notes	(Ongoing)
EU	Regulatory reference	SCOEL Recommendations
United Kingdom	Local name	Titanium dioxide
United Kingdom	WEL TWA (mg/m ³)	4 mg/m ³ respirable 10 mg/m ³ total inhalable
United Kingdom	Regulatory reference	EH40. HSE
2-hydroxyethyl methacrylate (868-77-9)		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal		1,3 mg/kg bodyweight/day
Long-term - systemic effects, inhalation		4,9 mg/m ³
DNEL/DMEL (General population)		
Long-term - systemic effects, oral		0,83 mg/kg bodyweight/day
Long-term - systemic effects, inhalation		2,9 mg/m ³
Long-term - systemic effects, dermal		0,83 mg/kg bodyweight/day
PNEC (Water)		
PNEC aqua (freshwater)		0,48 mg/l
PNEC aqua (marine water)		0,48 mg/l
PNEC aqua (intermittent, freshwater)		1 mg/l
PNEC aqua (intermittent, marine water)		1 mg/l
PNEC (Sediment)		
PNEC sediment (freshwater)		3,79 mg/kg bw
PNEC sediment (marine water)		3,79 mg/kg bw
PNEC (Soil)		
PNEC soil		0,47 mg/kg bw
PNEC (STP)		
PNEC sewage treatment plant		10 mg/l
ethylene dimethacrylate (97-90-5)		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal		1,3 mg/kg bodyweight/day
Long-term - systemic effects, inhalation		2,45 mg/m ³
DNEL/DMEL (General population)		
Long-term - systemic effects, oral		0,83
Long-term - systemic effects, inhalation		1,45 mg/m ³
Long-term - systemic effects, dermal		0,83 mg/kg bodyweight/day
PNEC (Water)		
PNEC aqua (freshwater)		0,139 mg/l
PNEC aqua (marine water)		0,0139 mg/l
PNEC aqua (intermittent, freshwater)		0,15 mg/l
PNEC (Sediment)		
PNEC sediment (freshwater)		1,6 mg/kg bw
PNEC sediment (marine water)		0,16 mg/kg bw
PNEC (Soil)		
PNEC soil		0,239 mg/kg bw

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ethylene dimethacrylate (97-90-5)	
PNEC (STP)	
PNEC sewage treatment plant	57 mg/l
diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (75980-60-8)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	1 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	3,5 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0,00353 mg/l
PNEC aqua (marine water)	0,000353 mg/l
PNEC aqua (intermittent, freshwater)	0,0353 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0,29 mg/kg bw
PNEC sediment (marine water)	0,029 mg/kg bw
PNEC (Soil)	
PNEC soil	0,0557 mg/kg bw
Ethoxylated bisphenol A dimethacrylate (41637-38-1)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	2 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	3,52 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0,5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0,87 mg/m ³
Long-term - systemic effects, dermal	1 mg/kg bodyweight/day
Titanium dioxide (13463-67-7)	
DNEL/DMEL (Workers)	
Long-term - local effects, inhalation	10 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	700 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0,000184 mg/l
PNEC aqua (marine water)	0,0184 mg/l
PNEC aqua (intermittent, freshwater)	0,193 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	1000 mg/kg bw
PNEC sediment (marine water)	100 mg/kg bw
PNEC (Soil)	
PNEC soil	100 mg/kg bw
PNEC (STP)	
PNEC sewage treatment plant	100 mg/l
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate (72869-86-4)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	1,3 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	3,3 mg/m ³

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

DNEL/DMEL (General population)

Long-term - systemic effects, oral	0,3 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0,6 mg/m ³
Long-term - systemic effects, dermal	0,7 mg/kg bodyweight/day

PNEC (Water)

PNEC aqua (freshwater)	0,01 mg/l
PNEC aqua (marine water)	0,001 mg/l
PNEC aqua (intermittent, freshwater)	0,1 mg/l
PNEC aqua (intermittent, marine water)	0,1 mg/l

PNEC (Sediment)

PNEC sediment (freshwater)	4,56 mg/kg bw
PNEC sediment (marine water)	0,46 mg/kg bw

PNEC (Soil)

PNEC soil	0,91 mg/kg bw
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PNEC (STP)

PNEC sewage treatment plant	3,61 mg/l
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8.2. Exposure controls

Hand protection:

Wear suitable gloves resistant to chemical penetration. The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN 374. penetration time (maximum wearing period): > 480 m. Suitable material: Nitrile rubber, Chloroprene rubber, Polyvinylchloride (PVC). Layer thickness : 0,4 mm - 0,5 mm - 0,7 mm

Eye protection:

Wear eye glasses with side protection according to EN 166.

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

No personal breathing protective equipment is normally required. In case of inadequate ventilation wear respiratory protection. particle filter device (DIN EN 143)

Personal protective equipment symbol(s):



Environmental exposure controls:

Use appropriate container to avoid environmental contamination.

Other information:

Do not eat, drink or smoke when using this product. Avoid contact with skin and eyes.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: tooth.
Odour	: Ester.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: > 200 °C

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Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1,1 - 1,2 Relative density, liquid (water=1)
Solubility	: Soluble in organic solvents. Water: Insoluble
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 0,8 - 1,1 Pa.s
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content : 0 %

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

2-hydroxyethyl methacrylate (868-77-9)

LD50 oral rat 5564 mg/kg

LD50 dermal rabbit 5000 mg/kg

ethylene dimethacrylate (97-90-5)

LD50 oral rat 8300 ml/kg

LD50 dermal rat 2000 mg/kg

mequinol; 4-methoxyphenol; hydroquinone monomethyl ether (150-76-5)

LD50 dermal rat 2000 mg/kg

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (75980-60-8)

LD50 oral rat 5000 mg/kg

LD50 dermal rat 2000 mg/kg

Silicon dioxide (7631-86-9)

LD50 oral rat > 5000 mg/kg

LD50 dermal rat > 2000 mg/kg

LC50 inhalation rat (mg/l) > 5 mg/l/4h

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Ethoxylated bisphenol A dimethacrylate (41637-38-1)

LD50 oral rat	2000 mg/kg
LD50 dermal rat	2000 mg/kg

Titanium dioxide (13463-67-7)

LD50 oral rat	2000 - 25000 mg/kg
LC50 inhalation rat (mg/l)	3,43 - 6,82 mg/l/4h

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

LD50 oral rat	5000 mg/kg
LD50 dermal rat	2000 mg/kg

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified

2-hydroxyethyl methacrylate (868-77-9)

NOAEL (oral, rat, 90 days)	100 - 1500 mg/kg bodyweight/day
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ethylene dimethacrylate (97-90-5)

NOAEL (oral, rat, 90 days)	100 - 1500 mg/kg bodyweight/day
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mequinol; 4-methoxyphenol; hydroquinone monomethyl ether (150-76-5)

LOAEL (oral, rat, 90 days)	300 mg/kg bodyweight/day
NOAEL (oral, rat, 90 days)	150 mg/kg bodyweight/day

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (75980-60-8)

LOAEL (oral, rat, 90 days)	250 - 300 mg/kg bodyweight/day
NOAEL (oral, rat, 90 days)	50 - 100 mg/kg bodyweight/day

Ethoxylated bisphenol A dimethacrylate (41637-38-1)

NOAEL (oral, rat, 90 days)	300 mg/kg bodyweight/day
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7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate (72869-86-4)

NOAEL (oral, rat, 90 days)	100 - 300 mg/kg bodyweight/day
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Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Avoid release to the environment.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Toxic to aquatic life with long lasting effects.

2-hydroxyethyl methacrylate (868-77-9)

LC50 fishes	100 mg/l
EC50 other aquatic organisms 1	380 mg/l 48h

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EC50 72h algae (1)	345 - 836 mg/l
NOEC chronic crustacea	24,1 mg/l (21 d)

ethylene dimethacrylate (97-90-5)

LC50 fishes	15,95 mg/l
EC50 Daphnia	44,9 mg/l
EC50 72h algae (1)	17,3 mg/l
NOEC (chronic)	5,05 mg/l

mequinol; 4-methoxyphenol; hydroquinone monomethyl ether (150-76-5)

LC50 fishes	28,5 mg/l
EC50 Daphnia	3 mg/l
EC50 72h algae (1)	19 - 54,7 mg/l
NOEC chronic algae	680 µg/l

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (75980-60-8)

LC50 fishes	6,53 mg/l (48 h)
EC50 Daphnia	3,53 mg/l
EC50 72h algae (1)	2,01 mg/l

Ethoxylated bisphenol A dimethacrylate (41637-38-1)

NOEC (chronic)	14,3 mg/l 28 d
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Titanium dioxide (13463-67-7)

LC50 fishes	155 - 294 mg/l
EC50 Daphnia	19,3 - 33,6 mg/l
EC50 72h algae (1)	100 mg/l

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

LC50 fishes	10,1 mg/l
EC50 Daphnia	1,2 mg/l
EC50 72h algae (1)	0,68 mg/l

12.2. Persistence and degradability

Titanium dioxide (13463-67-7)

Biochemical oxygen demand (BOD)	not applicable
Chemical oxygen demand (COD)	not applicable
ThOD	not applicable
BOD (% of ThOD)	not applicable

12.3. Bioaccumulative potential

2-hydroxyethyl methacrylate (868-77-9)

Log Pow	0,42 @ 25 °C and pH 5.9 - 6.1
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ethylene dimethacrylate (97-90-5)

Log Pow	2,4
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mequinol; 4-methoxyphenol; hydroquinone monomethyl ether (150-76-5)

Log Pow	1,13 - 1,62
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diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (75980-60-8)

Log Pow 3,1 - 3,87 @ 23 °C and pH 6.4

Ethoxylated bisphenol A dimethacrylate (41637-38-1)

Log Pow 3,43 - 5,62 @ pH 6.44

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

Log Pow 3 - 3,39 @ 20 °C and pH 7

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods





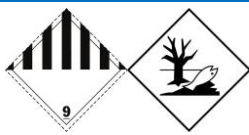
Regional legislation (waste) : Disposal must be done according to official regulations.

Product/Packaging disposal recommendations : Can be dumped in according to local regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
3082	3082	3082	3082	3082
14.2. UN proper shipping name				
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	Environmentally hazardous substance, liquid, n.o.s.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport document description				
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate ; diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide ; diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s., 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III
14.3. Transport hazard class(es)				
9	9	9	9	9
				
14.4. Packing group				
III	III	III	III	III

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14.5. Environmental hazards

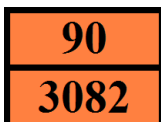
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes

No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR)	: M6
Special provisions (ADR)	: 274, 335, 375, 601
Limited quantities (ADR)	: 5I
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Special packing provisions (ADR)	: PP1
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1, TP29
Tank code (ADR)	: LGBV
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13
Hazard identification number (Kemler No.)	: 90
Orange plates	:



Tunnel restriction code (ADR)	: -
EAC code	: •3Z

Transport by sea

Special provisions (IMDG)	: 274, 335, 969
Packing instructions (IMDG)	: P001, LP01
Special packing provisions (IMDG)	: PP1
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP2, TP29
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-F
Stowage category (IMDG)	: A

Air transport

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y964
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 964
PCA max net quantity (IATA)	: 450L
CAO packing instructions (IATA)	: 964
CAO max net quantity (IATA)	: 450L
Special provisions (IATA)	: A97, A158, A197
ERG code (IATA)	: 9L

Inland waterway transport

Classification code (ADN)	: M6
Special provisions (ADN)	: 274, 335, 375, 601
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP

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Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : M6
Special provisions (RID) : 274, 335, 375, 601
Excepted quantities (RID) : E1
Packing instructions (RID) : P001, IBC03, LP01, R001
Special packing provisions (RID) : PP1
Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T4
Portable tank and bulk container special provisions (RID) : TP1, TP29
Tank codes for RID tanks (RID) : LGBV
Transport category (RID) : 3
Special provisions for carriage – Packages (RID) : W12
Special provisions for carriage - Loading, unloading and handling (RID) : CW13, CW31
Colis express (express parcels) (RID) : CE8
Hazard identification number (RID) : 90

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

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	NextDent C&B MFH - 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate - Ethoxylated bisphenol A dimethacrylate
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	NextDent C&B MFH - 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate - ethylene dimethacrylate - 2-hydroxyethyl methacrylate
3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	ethylene dimethacrylate - 2-hydroxyethyl methacrylate

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : 0 %

Directive 2012/18/EU (SEVESO III)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

Section	Changed item	Change	Comments
	Number of blue cones/lights (ADN)	Added	
	Equipment required (ADN)	Added	
	Carriage permitted (ADN)	Added	
	Excepted quantities (ADN)	Added	
	Limited quantities (ADN)	Added	
	Danger labels (ADN)	Added	

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	Classification code (ADN)	Added	
	Proper Shipping Name (RID)	Added	
	Hazard identification number (RID)	Added	
	Colis express (express parcels) (RID)	Added	
	Special provisions for carriage - Loading, unloading and handling (RID)	Added	
	Special provisions for carriage – Packages (RID)	Added	
	Transport category (RID)	Added	
	Tank codes for RID tanks (RID)	Added	
	Portable tank and bulk container special provisions (RID)	Added	
	Portable tank and bulk container instructions (RID)	Added	
	Mixed packing provisions (RID)	Added	
	Special packing provisions (RID)	Added	
	Packing instructions (RID)	Added	
	Excepted quantities (RID)	Added	
	Special provisions (RID)	Added	
	Packing group (RID)	Added	
	Classification code (RID)	Added	
	ERG code (IATA)	Added	
	Special provisions (IATA)	Added	
	CAO max net quantity (IATA)	Added	
	CAO packing instructions (IATA)	Added	
	PCA max net quantity (IATA)	Added	
	PCA packing instructions (IATA)	Added	
	PCA limited quantity max net quantity (IATA)	Added	
	PCA Limited quantities (IATA)	Added	
	PCA Excepted quantities (IATA)	Added	
	Hazard labels (IATA)	Added	
	Proper Shipping Name (IATA)	Added	
	Proper Shipping Name (IMDG)	Added	
	Danger labels (IMDG)	Added	
	EmS-No. (Spillage)	Added	
	EmS-No. (Fire)	Added	
	Stowage category (IMDG)	Added	
	Tank special provisions (IMDG)	Added	
	Tank instructions (IMDG)	Added	
	IBC packing instructions (IMDG)	Added	
	Special provisions (IMDG)	Added	
	Special provisions for carriage - Loading, unloading and handling (ADR)	Added	
	Special provisions for carriage - Packages (ADR)	Added	

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	Tank code (ADR)	Added	
	Portable tank and bulk container special provisions (ADR)	Added	
	Portable tank and bulk container instructions (ADR)	Added	
	Mixed packing provisions (ADR)	Added	
	Special packing provisions (ADR)	Added	
	Packing instructions (ADR)	Added	
	Vehicle for tank carriage	Added	
	UN-No. (RID)	Added	
	Supersedes	Added	
	Revision date	Added	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.2	Precautionary statements (CLP)	Modified	
2.2	Hazard pictograms (CLP)	Modified	
2.2	Hazard statements (CLP)	Modified	
3	Composition/information on ingredients	Modified	
5.3	EAC code	Added	
7.2	Precautionary statements (CLP)	Modified	
8.2	Environmental exposure controls	Added	
8.2	Personal protective equipment	Removed	
14.1	UN-No. (ADN)	Added	
14.1	UN-No. (IATA)	Added	
14.1	UN-No. (IMDG)	Added	
14.1	UN-No.	Added	
14.2	Proper Shipping Name (ADN)	Added	
14.2	Proper Shipping Name	Added	
14.3	Danger labels (RID)	Added	
14.3	Danger labels (UN)	Added	
14.3	Class (UN)	Added	
14.4	Packing group (ADN)	Added	
14.4	Packing group (IATA)	Added	
14.4	Packing group (IMDG)	Added	
14.4	Packing group (UN)	Added	
14.6	Special provisions (ADN)	Added	
14.6	Special packing provisions (IMDG)	Added	
14.6	Packing instructions (IMDG)	Added	
14.6	Transport category (ADR)	Added	
14.6	Special provisions (ADR)	Added	
14.6	Excepted quantities (ADR)	Added	
14.6	Limited quantities (ADR)	Added	
14.6	Tunnel restriction code	Added	
14.6	Hazard identification number (Kemler No.)	Added	
14.6	Classification code (UN)	Added	

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Data sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Other information	: DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Full text of H- and EUH-statements:		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2	
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3	
Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Repr. 2	Reproductive toxicity, Category 2	
Repr. 2	Reproductive toxicity, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	
Skin Sens. 1B	Skin sensitisation, category 1B	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	
H302	Harmful if swallowed.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	
H335	May cause respiratory irritation.	
H361d	Suspected of damaging the unborn child.	
H361f	Suspected of damaging fertility.	
H411	Toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	
H413	May cause long lasting harmful effects to aquatic life.	
Full text of use descriptors		
SU20	Health services	
Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method
Aquatic Chronic 2	H411	Calculation method

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product