

Material Safety Data Sheet Cover-Sheet – This page provides additional New Zealand specific information for this product and must be read in conjunction with the Safety Data Sheet (SDS) attached

Product Name: NextDent C&B MFH

Manufacturer: Vertex-Dental

SDS Expiry: 30 March 2029

Supplier Details: Henry Schein New Zealand
243-249 Bush Road, Rosedale, Auckland, 0632
PO Box 101 140, North Shore, Auckland 0745
Ph. 0800 808 855
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Emergency Contacts: Poisons/Hazardous Chemical Info Centre –
0800POISON/0800764766 (24 Hours)
Phone 111 for Fire, Ambulance or Police

HSNO Class/Category: 6 / 9

HSNO Group Standard: Dental Products Subsidiary Hazard Group Standard 2020
HSR002558

Statements/Pictograms: As per attached Safety Data Sheet (SDS)

Date Prepared: This coversheet was prepared – May 2025

This SDS coversheet has been produced by Henry Schein NZ and has been prepared in accordance with NZ EPA advice on making overseas SDS compliant to HSNO Act. The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or the specifications of the product. Users must satisfy that the product is entirely suitable for their purpose. The SDS and this coversheet may be revised from time to time, please ensure you have a current copy.

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product form : Mixture
Trade 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 | Life cycle stage | Use descriptors |
|------------------|------------------|-----------------|
| NextDent C&B MFH | Professional | 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/Area | Organisation/Company | Address | Emergency number | Comment |
|----------------|------------------------------------------------------------------------------|-----------------------------------|------------------|-----------------------------------|
| United Kingdom | National Poisons Information Service (Birmingham Centre) City Hospital | Dudley Road B18 7QH Birmingham | 0344 892 0111 | Only for healthcare professionals |

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Skin corrosion/irritation, Category 2 H315
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- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

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

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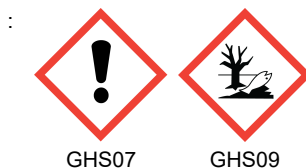
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2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

Contains

Hazard statements (CLP)

Precautionary statements (CLP)

- : Warning
- : Bisphenol A Polyethylene Glycol Diether Dimethacrylate; 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate; Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide; 2-hydroxyethyl methacrylate
- : H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H411 - Toxic to aquatic life with long lasting effects.
- : P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing/eye protection/face protection.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P501 - Dispose of contents/container to a hazardous or special waste collection point.

2.3. Other hazards

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

| Component | |
|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII | Bisphenol A Polyethylene Glycol Diether Dimethacrylate (41637-38-1), Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (75980-60-8) |
| Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII | Bisphenol A Polyethylene Glycol Diether Dimethacrylate (41637-38-1), Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (75980-60-8) |

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

| Component | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| Substance(s) not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 | Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (75980-60-8) |

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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 | 10 – 20 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 EUH208 |
| Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide substance listed as REACH Candidate | 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, H361 Aquatic Chronic 2, H411 |
| Bisphenol A Polyethylene Glycol Diether Dimethacrylate | CAS-No.: 41637-38-1 EC-No.: 609-946-4 | 1 – 5 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 |
| Titanium dioxide (Note V)(Note W)(Note 10) | CAS-No.: 13463-67-7 EC-No.: 236-675-5 EC Index-No.: 022-006-00-2 REACH-no: 01-2119489379-17 | 0,1 – 1 | Carc. 2, H351 |
| Acrylic acid, monoester with propane-1,2-diol (Note C)(Note D) | CAS-No.: 25584-83-2 EC-No.: 247-118-0 EC Index-No.: 607-108-00-2 REACH-no: 01-2119459351-41 | 0,01 – 0,1 | Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight) Acute Tox. 3 (Dermal), H311 (ATE=300 mg/kg bodyweight) Acute Tox. 3 (Inhalation:dust,mist), H331 (ATE=0,38 mg/l/4h) Skin Corr. 1B, H314 Skin Sens. 1, H317 |
| 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 | 0,001 – 0,01 | Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412 |

Specific concentration limits:

| Name | Product identifier | Specific concentration limits (% w/w (% w/w)) |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| Acrylic acid, monoester with propane-1,2-diol | CAS-No.: 25584-83-2 EC-No.: 247-118-0 EC Index-No.: 607-108-00-2 REACH-no: 01-2119459351-41 | (0,2 ≤ C ≤ 100) Skin Sens. 1, H317 |

Note 10: The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter ≤ 10 µm.

Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

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| | |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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'. |
| Note W: | It has been observed that the carcinogenic hazard of this substance arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung. This note aims to describe the particular toxicity of the substance; it does not constitute a criterion for classification according to this Regulation. |
| Note V: | If the substance is to be placed on the market as fibres (with diameter < 3 µm, length > 5 µm and aspect ratio ≥ 3:1) or particles of the substance fulfilling the WHO fibre criteria or as particles with modified surface chemistry, their hazardous properties must be evaluated in accordance with Title II of this Regulation, to assess whether a higher category (Carc. 1B or 1A) and/or additional routes of exposure (oral or dermal) should be applied. |

Full text of H- and EUH-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 | : Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest. |
| 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. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. |
| 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. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion | : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center or a doctor if you feel unwell. |

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

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects after inhalation | : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard. |
| Symptoms/effects after skin contact | : May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | : Eye irritation. |
| Symptoms/effects after ingestion | : None under normal conditions. |

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

| | |
|--------------------------------------------------|--------------------------------|
| Fire hazard | : No fire hazard. |
| Explosion hazard | : No direct explosion hazard. |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

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. Do not enter fire area without proper protective equipment, including respiratory protection. |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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- | | |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- | | |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General measures | : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage. |
| 6.1.1. For non-emergency personnel | |
| Protective equipment | : Wear recommended personal protective equipment. |
| Emergency procedures | : Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes. Avoid breathing mist, spray. |
| 6.1.2. For emergency responders | |
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures | : Evacuate unnecessary personnel. Stop leak if safe to do so. |

6.2. Environmental precautions

Avoid release to the environment. 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

- | | |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For containment | : Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible. |
| Methods for cleaning up | : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Store away from other materials. |
| Other information | : Dispose of materials or solid residues at an authorized site. |

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- | | |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Additional hazards when processed | : Not expected to present a significant hazard under anticipated conditions of normal use. |
| Precautions for safe handling | : Ensure good ventilation of the work station. 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. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing mist, spray. |
| Handling temperature | : < 30 °C |
| Hygiene measures | : Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |

7.2. Conditions for safe storage, including any incompatibilities

- | | |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Technical measures | : Keep in a cool, well-ventilated place away from heat. |
| 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. |
| Maximum storage period | : 6 months |
| Storage temperature | : < 30 °C |
| Heat and ignition sources | : Direct sunlight. |
| Storage area | : Keep container in a well-ventilated place. |

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Packaging materials : Store always product in container of same material as original container.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

| mequinol; 4-methoxyphenol; hydroquinone monomethyl ether (150-76-5) | |
|---------------------------------------------------------------------|---------|
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) | 5 mg/m³ |

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

| Bisphenol A Polyethylene Glycol Diether Dimethacrylate (41637-38-1) | |
|-------------------------------------------------------------------------------------------------------------|--------------------------|
| DNEL/DMEL (Workers) | |
| Long-term - systemic effects, dermal | 2 mg/kg bw/day |
| Long-term - systemic effects, inhalation | 3,52 mg/m³ |
| DNEL/DMEL (General population) | |
| Long-term - systemic effects,oral | 0,5 mg/kg bw/day |
| Long-term - systemic effects, inhalation | 0,87 mg/m³ |
| Long-term - systemic effects, dermal | 1 mg/kg bw/day |
| 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/m³ |
| DNEL/DMEL (General population) | |
| Long-term - systemic effects,oral | 0,3 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 0,6 mg/m³ |
| 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 dwt |
| PNEC sediment (marine water) | 0,46 mg/kg dwt |

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| | |
|---------------------------------------------------------------------------------------------------------------------|----------------------------|
| 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazaheptadecane-1,16-diyl bismethacrylate (72869-86-4) | |
| PNEC (Soil) | |
| PNEC soil | 0,91 mg/kg dwt |
| PNEC (STP) | |
| PNEC sewage treatment plant | 3,61 mg/l |
| Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (75980-60-8) | |
| DNEL/DMEL (Workers) | |
| Long-term - systemic effects, dermal | 0,233 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 0,822 mg/m³ |
| DNEL/DMEL (General population) | |
| Long-term - systemic effects,oral | 83,3 µg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 0,145 mg/m³ |
| Long-term - systemic effects, dermal | 83,3 µg/kg bodyweight/day |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 1,4 µg/l |
| PNEC aqua (marine water) | 0,14 µg/l |
| PNEC aqua (intermittent, freshwater) | 14 µg/l |
| PNEC aqua (intermittent, marine water) | 1,4 µg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 0,115 mg/kg dwt |
| PNEC sediment (marine water) | 11,5 µg/kg dw |
| PNEC (Soil) | |
| PNEC soil | 22,2 µg/kg dw |
| 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/m³ |
| DNEL/DMEL (General population) | |
| Long-term - systemic effects,oral | 0,83 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 1,45 mg/m³ |
| Long-term - systemic effects, dermal | 0,83 mg/kg bodyweight/day |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 0,482 mg/l |
| PNEC aqua (marine water) | 0,0482 mg/l |
| PNEC aqua (intermittent, freshwater) | 1 mg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 3,79 mg/kg dwt |
| PNEC sediment (marine water) | 3,79 mg/kg dwt |

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2-hydroxyethyl methacrylate (868-77-9)

PNEC (Soil)

| | |
|-----------|-----------------|
| PNEC soil | 0,476 mg/kg dwt |
|-----------|-----------------|

PNEC (STP)

| | |
|-----------------------------|---------|
| PNEC sewage treatment plant | 10 mg/l |
|-----------------------------|---------|

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Wear eye protection. Protective clothing. Gloves.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Wear eye glasses with side protection according to EN 166. Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing. EN 13034

Hand protection:

Wear suitable gloves resistant to chemical penetration. The protective gloves to be used must comply with the specifications of the regulation 2016/425 and the resultant standard ISO 374-1. penetration time (maximum wearing period): > 480 m. Suitable material: Nitrile rubber, Chloroprene rubber (0,5mm), Polyvinylchloride (PVC). Layer thickness : 0,4 mm - 0,5 mm - 0,7 mm. If there is a risk of liquid being splashed : Nitrile rubber gloves

8.2.2.3. Respiratory protection

Respiratory protection:

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

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Use appropriate container to avoid environmental contamination. Avoid release to the environment.

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 | : White. |

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| | |
|-------------------------------------------------|------------------------------|
| Appearance | : Viscous. |
| Odour | : Characteristic. |
| Odour threshold | : Not available |
| Melting point | : Not applicable |
| Freezing point | : Not available |
| Boiling point | : Not available |
| Flammability | : Non flammable. |
| Lower explosion limit | : Not available |
| Upper explosion limit | : Not available |
| Flash point | : Not available |
| Auto-ignition temperature | : Not available |
| Decomposition temperature | : > 400 °C |
| pH | : Not available |
| Viscosity, kinematic | : Not available |
| Viscosity, dynamic | : 0,8 – 1,1 Pa·s |
| Solubility | : Not available |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |
| Vapour pressure | : Not available |
| Vapour pressure at 50°C | : Not available |
| Density | : 1,1 – 1,2 g/m ³ |
| Relative density | : Not available |
| Relative vapour density at 20°C | : Not available |
| Particle characteristics | : Not applicable |

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content : 0 %

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

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

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

| | |
|-----------------------------|------------------|
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

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| | |
|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bisphenol A Polyethylene Glycol Diether Dimethacrylate (41637-38-1) | |
| LD50 oral rat | > 2000 mg/kg bodyweight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Read-across, Oral, 14 day(s)) |
| LD50 dermal rat | > 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Read-across, Dermal, 15 day(s)) |
| 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 bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)) |
| Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (75980-60-8) | |
| LD50 oral rat | > 5000 mg/kg bodyweight Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LD50 dermal rat | > 2000 mg/kg bodyweight Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity). |
| 2-hydroxyethyl methacrylate (868-77-9) | |
| LD50 oral rat | 5564 mg/kg bodyweight |
| LD50 oral | 5050 mg/kg |
| LD50 dermal rabbit | > 5000 mg/kg bodyweight |
| LD50 dermal | 3000 mg/kg |
| mequinol; 4-methoxyphenol; hydroquinone monomethyl ether (150-76-5) | |
| LD50 oral rat | > 2000 (>) mg/kg bodyweight Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method) |
| LD50 dermal rat | 2000 mg/kg |
| Acrylic acid, monoester with propane-1,2-diol (25584-83-2) | |
| LD50 oral rat | 820 mg/kg bodyweight Guideline: OECD Guideline 401, 95% CL: 760 - 910 |
| LD50 dermal rat | > 1000 mg/kg bw/day Guideline: OECD Guideline 402 |
| LC50 Inhalation - Rat | 380 mg/m ³ (8 h) |
| Titanium dioxide (13463-67-7) | |
| LD50 oral rat | > 5000 mg/kg bodyweight Guideline: OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity) |
| LC50 Inhalation - Rat | 3,43 – 6,82 mg/l/4h |
| Skin corrosion/irritation | : Causes skin irritation. |
| Titanium dioxide (13463-67-7) | |
| pH | 7 |
| Serious eye damage/irritation | : Causes serious eye irritation. |
| Titanium dioxide (13463-67-7) | |
| pH | 7 |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction. |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |

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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 (animal/male, F0/P) | 100 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other: |
| NOAEL (animal/female, F0/P) | 300 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other: |
| STOT-single exposure | : Not classified |
| Bisphenol A Polyethylene Glycol Diether Dimethacrylate (41637-38-1) | |
| STOT-single exposure | May cause respiratory irritation. |
| Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (75980-60-8) | |
| LOAEL (oral, rat) | 250 – 300 mg/kg bodyweight |
| NOAEL (oral, rat) | 50 mg/kg bodyweight |
| STOT-repeated exposure | : Not classified |
| Bisphenol A Polyethylene Glycol Diether Dimethacrylate (41637-38-1) | |
| NOAEL (oral, rat, 90 days) | 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents) |
| 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 |
| Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (75980-60-8) | |
| LOAEL (oral, rat, 90 days) | 250 – 300 mg/kg bodyweight/day |
| NOAEL (oral, rat, 28 days) | 50 mg/kg bodyweight/day |
| 2-hydroxyethyl methacrylate (868-77-9) | |
| LOAEC (inhalation, rat, gas, 90 days) | 350 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study) |
| NOAEL (oral, rat, 90 days) | 100 – 1500 mg/kg bodyweight/day |
| NOAEC (inhalation, rat, gas, 90 days) | 100 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study) |
| mequinol; 4-methoxyphenol; hydroquinone monomethyl ether (150-76-5) | |
| LOAEL (oral, rat, 90 days) | 300 mg/kg bodyweight/day |
| NOAEL (oral, rat, 28 days) | 150 mg/kg bodyweight/day |
| NOAEL (oral, rat, 90 days) | 150 mg/kg bodyweight/day |
| Acrylic acid, monoester with propane-1,2-diol (25584-83-2) | |
| LOAEC (inhalation, rat, vapour, 90 days) | 24 mg/m³ air |
| NOAEL (oral, rat, 28 days) | 100 mg/kg bodyweight/day |
| NOAEC (inhalation, rat, 28 days) | 0,0024 mg/l |
| NOAEL (oral, rat, 90 days) | 196 – 305 mg/kg bodyweight/day |
| NOAEC (inhalation, rat, vapour, 90 days) | 0,0024 mg/l air Animal: rat |
| NOAEC (inhalation, rat, dust/mist/fume, 90 days) | 2,4 mg/m³ |
| Titanium dioxide (13463-67-7) | |
| NOAEC (inhalation, rat, gas, 28 days) | 0,0021 mg/l |

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Aspiration hazard : Not classified

Bisphenol A Polyethylene Glycol Diether Dimethacrylate (41637-38-1)

| | |
|----------------------|-----------------------------|
| Viscosity, kinematic | 1171,429 mm ² /s |
|----------------------|-----------------------------|

2-hydroxyethyl methacrylate (868-77-9)

| | |
|----------------------|---------------------------------|
| Viscosity, kinematic | 6,36 mm ² /s @ 20 °C |
|----------------------|---------------------------------|

Acrylic acid, monoester with propane-1,2-diol (25584-83-2)

| | |
|----------------------|---------------------------------|
| Viscosity, kinematic | 8,63 mm ² /s @ 20 °C |
|----------------------|---------------------------------|

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Avoid release to the environment. Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term : Not classified
(acute)
Hazardous to the aquatic environment, long-term : Toxic to aquatic life with long lasting effects.
(chronic)

Bisphenol A Polyethylene Glycol Diether Dimethacrylate (41637-38-1)

| | |
|------------------------|----------------------|
| LC50 - Fish [1] | 100 mg/l (4 days) |
| EC50 - Crustacea [1] | 100 mg/l (48h) |
| EC50 72h - Algae [1] | 100 mg/l (72h) |
| NOEC (chronic) | 14,3 mg/l 28 d |
| NOEC chronic fish | 65600 ng/l (34 days) |
| NOEC chronic crustacea | 22400 ng/l (21 days) |

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

| | |
|----------------------|--------------------------------------------------------------------------------------------------------|
| LC50 - Fish [1] | 10,1 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
| EC50 - Crustacea [1] | > 1,2 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | > 0,68 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |
| NOEC (acute) | 1,2 mg/l 48 hrs |
| NOEC (chronic) | 36,1 mg/l (14 days) |

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

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| LC50 - Fish [1] | 1,4 mg/l Test organisms (species): Cyprinus carpio |
| EC50 - Crustacea [1] | 3,53 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | 1,56 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |

2-hydroxyethyl methacrylate (868-77-9)

| | |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| LC50 - Fish [1] | > 100 mg/l Test organisms (species): Oryzias latipes |
| EC50 - Crustacea [1] | 380 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | 345 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |

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| 2-hydroxyethyl methacrylate (868-77-9) | |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| ErC50 algae | 710 mg/l |
| LOEC (chronic) | 49,6 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC (chronic) | 24,1 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC chronic crustacea | 24,1 mg/l (21 d) |
| NOEC chronic algae | 400 mg/l (72h) |
| mequinol; 4-methoxyphenol; hydroquinone monomethyl ether (150-76-5) | |
| LC50 - Fish [1] | 28,5 mg/l |
| EC50 - Crustacea [1] | 3 mg/l |
| EC50 72h - Algae [1] | 19 – 54,7 mg/l |
| EC50 72h - Algae [2] | 19 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| LOEC (chronic) | > 1,45 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC (chronic) | 0,68 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC chronic crustacea | 0,68 mg/l |
| NOEC chronic algae | 2,96 mg/l |
| Acrylic acid, monoester with propane-1,2-diol (25584-83-2) | |
| LC50 - Fish [1] | 3,61 mg/l Test organisms (species): Pimephales promelas |
| EC50 - Crustacea [1] | 24 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | 6,98 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |
| EC50 72h - Algae [2] | 3,88 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |
| NOEC (chronic) | 0,48 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC chronic crustacea | 860 – 3800 µg/l (21 d) |
| NOEC chronic algae | 0,625 mg/l 72 h |
| Titanium dioxide (13463-67-7) | |
| LC50 - Fish [1] | 870 – 1100 µg/l (14 days) |
| LC50 - Fish [2] | 1 mg/l (72 h) |
| EC50 - Crustacea [1] | 3,58 – 100 mg/l (72 h) |
| EC50 - Crustacea [2] | 2,41 – 103,9 |
| EC50 72h - Algae [1] | > 100 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |
| NOEC chronic fish | 0,004 – 0,08 mg/l (28 days) |
| NOEC chronic crustacea | 100 mg/l (28 days) |
| NOEC chronic algae | 100 mg/l (7 days) |

12.2. Persistence and degradability

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|-------------------------------|-------------------------------------|
| Persistence and degradability | Not readily biodegradable in water. |

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| | |
|--------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| Bisphenol A Polyethylene Glycol Diether Dimethacrylate (41637-38-1) | |
| Persistence and degradability | Not readily biodegradable in water. |
| 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate (72869-86-4) | |
| Persistence and degradability | Rapidly degradable |
| Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (75980-60-8) | |
| Persistence and degradability | Rapidly degradable |
| 2-hydroxyethyl methacrylate (868-77-9) | |
| Persistence and degradability | Not rapidly degradable |
| mequinol; 4-methoxyphenol; hydroquinone monomethyl ether (150-76-5) | |
| Persistence and degradability | Rapidly degradable |
| Acrylic acid, monoester with propane-1,2-diol (25584-83-2) | |
| Persistence and degradability | Rapidly degradable |
| Titanium dioxide (13463-67-7) | |
| Persistence and degradability | Not rapidly degradable |
| Biochemical oxygen demand (BOD) | Not applicable |
| Chemical oxygen demand (COD) | Not applicable |
| ThOD | Not applicable |
| BOD (% of ThOD) | Not applicable |

12.3. Bioaccumulative potential

| | |
|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Bisphenol A Polyethylene Glycol Diether Dimethacrylate (41637-38-1) | |
| Partition coefficient n-octanol/water (Log Pow) | 5,62 (Practical experience/observation, OECD 117: Partition Coefficient (n-octanol/water), HPLC method) |
| Bioaccumulative potential | High potential for bioaccumulation (Log Kow > 5). |
| 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate (72869-86-4) | |
| Partition coefficient n-octanol/water (Log Pow) | 3,39 @ 20 °C and pH 7 |
| Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (75980-60-8) | |
| Partition coefficient n-octanol/water (Log Pow) | 3,1 @ 23 °C and pH 6,4 |
| 2-hydroxyethyl methacrylate (868-77-9) | |
| Partition coefficient n-octanol/water (Log Pow) | 0,42 @ 25 °C |
| mequinol; 4-methoxyphenol; hydroquinone monomethyl ether (150-76-5) | |
| Partition coefficient n-octanol/water (Log Pow) | 1,13 – 1,62 @ 23 - 30 °C and pH 2.2 - 11.5 |
| Acrylic acid, monoester with propane-1,2-diol (25584-83-2) | |
| Partition coefficient n-octanol/water (Log Pow) | 0,2 @ 25 °C |

12.4. Mobility in soil

| | |
|----------------------------------------------------------------------------|-------------------------------------|
| Bisphenol A Polyethylene Glycol Diether Dimethacrylate (41637-38-1) | |
| Surface tension | No data available in the literature |

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Bisphenol A Polyethylene Glycol Diether Dimethacrylate (41637-38-1)

| | |
|------------------------------------------------------------|-----------------------------------------|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 2,56 – 3,88 (log Koc, Calculated value) |
|------------------------------------------------------------|-----------------------------------------|

| | |
|----------------|-------------------------------------|
| Ecology - soil | Low potential for mobility in soil. |
|----------------|-------------------------------------|

12.5. Results of PBT and vPvB assessment

Component

| | |
|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII | Bisphenol A Polyethylene Glycol Diether Dimethacrylate (41637-38-1), Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (75980-60-8) |
|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|

| | |
|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII | Bisphenol A Polyethylene Glycol Diether Dimethacrylate (41637-38-1), Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (75980-60-8) |
|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Regional waste regulation | : Disposal must be done according to official regulations. |
| Waste treatment methods | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Sewage disposal recommendations | : Disposal must be done according to official regulations. |
| Product/Packaging disposal recommendations | : Can be dumped in according to local regulations. |
| Additional information | : Do not re-use empty containers. |
| Ecological information | : Avoid release to the environment. |
| European List of Waste (LoW, EC 2000/532) | : 18 00 00 - WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (EXCEPT KITCHEN AND RESTAURANT WASTES NOT ARISING FROM IMMEDIATE HEALTH CARE) |
| HP Code | : HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye. HP13 - "Sensitising:" waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs. HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment |

SECTION 14: Transport information

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

| ADR | IMDG | IATA | ADN | RID |
|------------------------------------|------------------------------------|-------------------------------------|------------------------------------|------------------------------------|
| Special provision(s) applied : 375 | Special provision(s) applied : 969 | Special provision(s) applied : A197 | Special provision(s) applied : 375 | Special provision(s) applied : 375 |

These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.





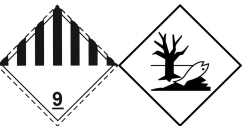
14.1. UN number or ID number

| | | | | |
|---------|---------|---------|---------|---------|
| UN 3082 | UN 3082 | UN 3082 | UN 3082 | UN 3082 |
|---------|---------|---------|---------|---------|

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

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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
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : LP01, P001
Special packing provisions (IMDG) : PP1
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP1, 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, A215
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
Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : M6
Special provisions (RID) : 274, 335, 375, 601
Limited quantities (RID) : 5L
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

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Colis express (express parcels) (RID) : CE8
Hazard identification number (RID) : 90

14.7. Maritime transport in bulk according to IMO instruments

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

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)

| Reference code | Applicable on | Entry title or description |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3(b) | NextDent C&B MFH ; Bisphenol A Polyethylene Glycol Diether Dimethacrylate ; 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate ; 2-hydroxyethyl methacrylate ; Acrylic acid, monoester with propane-1,2-diol | 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 |
| 3(c) | 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 | 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 |

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains substance(s) listed on the REACH Candidate List in concentrations $\geq 0.1\%$ or SCL: Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (EC 278-355-8, CAS 75980-60-8)

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

VOC Directive (2004/42)

VOC content : 0 %

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

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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 |
| | Supersedes | Modified | |
| | Revision date | Modified | |
| | Proper Shipping Name (RID) | Added | |
| | Packing group (RID) | Added | |
| | Classification code (RID) | Added | |
| | Danger labels (ADN) | Added | |
| | Classification code (ADN) | Added | |
| | Proper Shipping Name (IMDG) | Added | |
| | Proper Shipping Name (IATA) | Added | |
| | Danger labels (IMDG) | Added | |
| | Danger labels (IATA) | Added | |
| | UN-No. (RID) | Added | |
| | Number of blue cones/lights (ADN) | Added | |
| | Equipment required (ADN) | Added | |
| | Carriage permitted (ADN) | Added | |
| | Excepted quantities (ADN) | Added | |
| | Limited quantities (ADN) | 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 | |

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| Indication of changes | | | |
|-----------------------|-------------------------------------------------------------------------|----------|----------|
| Section | Changed item | Change | Comments |
| | Limited quantities (RID) | Added | |
| | Special provisions (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 | |
| | EmS-No. (Spillage) | Added | |
| | EmS-No. (Fire) | Added | |
| | Limited quantities (IMDG) | Added | |
| | Stowage category (IMDG) | Added | |
| | Tank special provisions (IMDG) | Added | |
| | Tank instructions (IMDG) | Added | |
| | IBC packing instructions (IMDG) | Added | |
| | Excepted quantities (IMDG) | Added | |
| | Special provisions (IMDG) | Added | |
| | Special provisions for carriage - Loading, unloading and handling (ADR) | Added | |
| | Special provisions for carriage - Packages (ADR) | Added | |
| | 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 | |
| 1.1 | Trade name | Modified | |
| 1.1 | Name | Modified | |
| 1.2 | Use of the substance/mixture | Added | |
| 2.1 | Adverse physicochemical, human health and environmental effects | Modified | |
| 2.1 | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Modified | |

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| Indication of changes | | | |
|-----------------------|--------------------------------------------|----------|----------|
| Section | Changed item | Change | Comments |
| 2.2 | Precautionary statements (CLP) | Modified | |
| 2.2 | Hazard pictograms (CLP) | Modified | |
| 2.2 | Hazard statements (CLP) | Modified | |
| 3 | Composition/information on ingredients | Modified | |
| 4.1 | First-aid measures after eye contact | Modified | |
| 4.1 | First-aid measures after skin contact | Modified | |
| 4.1 | First-aid measures after inhalation | Modified | |
| 4.1 | First-aid measures general | Modified | |
| 4.2 | Symptoms/effects after skin contact | Modified | |
| 4.2 | Symptoms/effects after inhalation | Modified | |
| 5.1 | Suitable extinguishing media | Modified | |
| 5.3 | EAC code | Added | |
| 6.1 | Emergency procedures | Modified | |
| 6.3 | For containment | Modified | |
| 7.1 | Precautions for safe handling | Modified | |
| 7.1 | Hygiene measures | Modified | |
| 7.2 | Storage conditions | Modified | |
| 8.2 | Personal protective equipment | Modified | |
| 8.2 | Hand protection | Modified | |
| 8.2 | Environmental exposure controls | Modified | |
| 9.1 | Viscosity, dynamic | Added | |
| 9.1 | Density | Added | |
| 12.1 | Ecology - general | Modified | |
| 13.1 | Product/Packaging disposal recommendations | Modified | |
| 13.1 | European List of Waste (LoW, EC 2000/532) | Added | |
| 14.1 | UN-No. (IMDG) | Added | |
| 14.1 | UN-No. (IATA) | Added | |
| 14.1 | UN-No. (ADN) | 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 (IMDG) | Added | |
| 14.4 | Packing group (IATA) | Added | |

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| Indication of changes | | | |
|-----------------------|-------------------------------------------|----------|----------|
| Section | Changed item | Change | Comments |
| 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 | |
| 16 | Abbreviations and acronyms | Modified | |

| Abbreviations and acronyms: | |
|-----------------------------|---------------------------------------------------------------------------------------------------|
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |
| IOELV | Indicative Occupational Exposure Limit Value |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| TRGS | Technical Rules for Hazardous Substances |
| WGK | Water Hazard Class |
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| BLV | Biological limit value |
| BOD | Biochemical oxygen demand (BOD) |
| COD | Chemical oxygen demand (COD) |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC-No. | European Community number |
| EC50 | Median effective concentration |
| EN | European Standard |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |

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Abbreviations and acronyms:

| | |
|---------|------------------------------------------------------------------------------|
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| OEL | Occupational Exposure Limit |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| STP | Sewage treatment plant |
| ThOD | Theoretical oxygen demand (ThOD) |
| TLM | Median Tolerance Limit |
| VOC | Volatile Organic Compounds |
| CAS-No. | Chemical Abstract Service number |
| N.O.S. | Not Otherwise Specified |
| vPvB | Very Persistent and Very Bioaccumulative |
| ED | Endocrine disrupting properties |

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. 3 (Dermal) | Acute toxicity (dermal), Category 3 |
| Acute Tox. 3 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 3 |
| Acute Tox. 3 (Oral) | Acute toxicity (oral), Category 3 |
| 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 |
| Carc. 2 | Carcinogenicity, Category 2 |
| EUH208 | Contains . May produce an allergic reaction. |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |

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| Full text of H- and EUH-statements: | |
|-------------------------------------|--------------------------------------------------------------------------------------------|
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H335 | May cause respiratory irritation. |
| H351 | Suspected of causing cancer. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| Repr. 2 | Reproductive toxicity, Category 2 |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B |
| Skin Irrit. 2 | Skin corrosion/irritation, 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 |

| 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]: | | |
|---------------------------------------------------------------------------------------------------------------------------|------|--------------------|
| Skin Irrit. 2 | H315 | Calculation method |
| Eye Irrit. 2 | H319 | Calculation method |
| Skin Sens. 1 | H317 | Calculation method |
| Aquatic Chronic 2 | H411 | Calculation method |

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

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.