



# Aelite Aesthetic Enamel

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878  
Revision date: 11/8/2024 Supersedes version of: 1/9/2023 Version: 4.0

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : Aelite Aesthetic Enamel

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

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : For Rx Only

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

##### Manufacturer

BISCO, Inc.  
1100 W. Irving Park Rd.  
60193 Schaumburg, IL  
U.S.A  
T 1-800-247-3368 or 1-847-534-6000  
[sales@bisco.com](mailto:sales@bisco.com) - [www.bisco.com](http://www.bisco.com)

##### EC REP

BISICO France  
208, allée de la Coudoulette  
13680 Lançon de Provence  
France  
T 33-4-90-42-92-92

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC - 24-Hour Hazmat Emergency Communications Center  
Domestic: 1-800-424-9300 Outside the U.S.: 1-703-527-3887, collect calls accepted

### 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
Specific target organ toxicity - Single exposure, Category 3,	H335
Respiratory tract irritation	
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.

#### 2.2. Label elements

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

Hazard pictograms (CLP)



GHS07

Signal word (CLP)

: Warning

Contains

: BisGMA; Urethane Dimethacrylate; Triethylene Glycol Dimethacrylate ; Tetrahydrofurfuryl Methacrylate; Ytterbium Fluoride

Hazard statements (CLP)

: H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.  
H335 - May cause respiratory irritation.

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Precautionary statements (CLP)	: P261 - Avoid breathing dust, fume, vapours. P264 - Wash hands thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves, protective clothing, eye 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. P312 - Call a POISON CENTER, doctor if you feel unwell. P321 - Specific treatment (see supplemental first aid instruction on this label). P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation, a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.
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### 2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 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	Ethoxylated Bis A Dimethacrylate (41637-38-1), Triethylene Glycol Dimethacrylate (109-16-0), Tetrahydrofurfuryl Methacrylate (2455-24-5), 2,4-Dihydroxybenzophenone (131-56-6), Ethyl 4-Dimethylaminobenzoate (10287-53-3), Trimethylolpropane Trimethacrylate (3290-92-4)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Ethoxylated Bis A Dimethacrylate (41637-38-1), Triethylene Glycol Dimethacrylate (109-16-0), Tetrahydrofurfuryl Methacrylate (2455-24-5), 2,4-Dihydroxybenzophenone (131-56-6), Ethyl 4-Dimethylaminobenzoate (10287-53-3), Trimethylolpropane Trimethacrylate (3290-92-4)

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 %

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Silicon Dioxide	CAS-No.: 112945-52-5	30 - 50	Not classified
Ytterbium Fluoride	CAS-No.: 13760-80-0	10 - 30	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
BisGMA	CAS-No.: 1565-94-2 EC-No.: 216-367-7	5 - 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335
Urethane Dimethacrylate	CAS-No.: 72869-86-4 EC-No.: 276-957-5	5 - 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ethoxylated Bis A Dimethacrylate	CAS-No.: 41637-38-1	5 - 10	Aquatic Chronic 4, H413
Aerosil R972	CAS-No.: 68611-44-9 EC-No.: 271-893-4	1 - 5	Not classified
Triethylene Glycol Dimethacrylate	CAS-No.: 109-16-0 EC-No.: 203-652-6	1 - 5	Skin Sens. 1B, H317
Tetrahydrofurfuryl Methacrylate	CAS-No.: 2455-24-5 EC-No.: 219-529-5	1 - 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
Trimethylolpropane Trimethacrylate	CAS-No.: 3290-92-4 EC-No.: 221-950-4	1 - 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400
Ethyl 4-Dimethylaminobenzoate	CAS-No.: 10287-53-3 EC-No.: 233-634-3	< 1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 1B, H360 STOT SE 3, H336 Aquatic Chronic 2, H411
2,4-Dihydroxybenzophenone	CAS-No.: 131-56-6 EC-No.: 205-029-4	< 1	Eye Irrit. 2, H319 Repr. 2, H361

Full text of H- and EUH-statements: see section 16

### Components - Nanoform

Silicon Dioxide (112945-52-5)	
Name of (set of) nanoform(s)	Silicon Dioxide
Number based particle size distribution	40 nm
Particle shape	Crystal
Specific surface area	50 m2/g
Ytterbium Fluoride (13760-80-0)	
Name of (set of) nanoform(s)	Ytterbium Fluoride
Number based particle size distribution	30 - 70 nm
Particle shape	Crystal
Specific surface area	< 50 m2/g
Aerosil R972 (68611-44-9)	
Name of (set of) nanoform(s)	Aerosil R972
Number based particle size distribution	16 nm
Particle shape	Crystal
Specific surface area	90 - 130 m2/g

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: 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	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

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First-aid measures after ingestion : 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 skin contact : Irritation. May cause an allergic skin reaction.  
Symptoms/effects after eye contact : Eye irritation.

### 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 : Water spray. Dry powder. Foam.

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

Protection during firefighting : 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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust, fume, vapours.

#### 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".

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.  
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust, fume, vapours.  
Hygiene measures : 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

Storage conditions : Store in a well-ventilated place. Keep cool.

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### 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

No additional information available

#### 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

No additional information available

#### 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 symbol(s):



##### 8.2.2.1. Eye and face protection

###### Eye protection:

Safety glasses

##### 8.2.2.2. Skin protection

###### Skin and body protection:

Wear suitable protective clothing

###### Hand protection:

Protective gloves

##### 8.2.2.3. Respiratory protection

###### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

##### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

##### Environmental exposure controls:

Avoid release to the environment.

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### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: Tooth.
Appearance	: Viscous Paste.
Odour	: Acrylic.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not applicable
Boiling point	: Not available
Flammability	: Non flammable.
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Flash point	: > 55 °C
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not available
pH	: Not available
pH solution	: Not available
Viscosity, kinematic	: Not applicable
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: > 1
Relative vapour density at 20°C	: Not applicable
Particle size	: Not available

See section 3 for more information about nano properties.

#### 9.2. Other information

##### 9.2.1. Information with regard to physical hazard classes

No additional information available

##### 9.2.2. Other safety characteristics

No additional information available

### 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

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 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.

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### 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

##### Silicon Dioxide (112945-52-5)

LD50 oral rat	> 5000 mg/kg (Rat, Literature study, Oral)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Literature study, Dermal)

##### Urethane Dimethacrylate (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)), Remarks on results: no indication of skin irritation up to the relevant limit dose level

##### Ethoxylated Bis A Dimethacrylate (41637-38-1)

LD50 oral rat	> 2000 mg/kg Source: ECHA
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Read-across, Dermal, 15 day(s))

##### Triethylene Glycol Dimethacrylate (109-16-0)

LD50 oral rat	10837 mg/kg Source: NLM, THOMSON
LD50 dermal	> 2000 mg/kg bodyweight (US EPA, 14 day(s), Mouse, Male, Experimental value, Skin, 14 day(s))

##### Tetrahydrofurfuryl Methacrylate (2455-24-5)

LD50 oral rat	≈ 4000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
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##### 2,4-Dihydroxybenzophenone (131-56-6)

LD50 oral rat	8600 mg/kg bodyweight Animal: rat, Guideline: other:
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##### Ethyl 4-Dimethylaminobenzoate (10287-53-3)

LD50 oral rat	> 2000 mg/kg (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 15 day(s))

##### Trimethylolpropane Trimethacrylate (3290-92-4)

LD50 oral rat	> 2000 mg/kg bodyweight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
LD50 dermal rabbit	17120 mg/kg (Rabbit)

##### Aerosil R972 (68611-44-9)

LD50 oral rat	> 5000 mg/kg Source: International Uniform Chemical Information Database
LC50 Inhalation - Rat	≥ 0.477 mg/kg Source: International Uniform Chemical Information Database

Skin corrosion/irritation : Causes skin irritation.

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<b>Silicon Dioxide (112945-52-5)</b>	
pH	3.6 - 4.5 (4 %)
<b>Ethoxylated Bis A Dimethacrylate (41637-38-1)</b>	
pH	4.7 (< 0.01 %, 20 °C, OECD 105: Water Solubility)
<b>Triethylene Glycol Dimethacrylate (109-16-0)</b>	
pH	6.8 - 7.2
<b>Tetrahydrofurfuryl Methacrylate (2455-24-5)</b>	
pH	No data available in the literature
<b>Trimethylolpropane Trimethacrylate (3290-92-4)</b>	
pH	5.7 (20.1 mg/l, 20 °C, OECD 105: Water Solubility)
<b>Aerosil R972 (68611-44-9)</b>	
pH	8 - 10
Serious eye damage/irritation : Causes serious eye irritation.	
<b>Silicon Dioxide (112945-52-5)</b>	
pH	3.6 - 4.5 (4 %)
<b>Ethoxylated Bis A Dimethacrylate (41637-38-1)</b>	
pH	4.7 (< 0.01 %, 20 °C, OECD 105: Water Solubility)
<b>Triethylene Glycol Dimethacrylate (109-16-0)</b>	
pH	6.8 - 7.2
<b>Tetrahydrofurfuryl Methacrylate (2455-24-5)</b>	
pH	No data available in the literature
<b>Trimethylolpropane Trimethacrylate (3290-92-4)</b>	
pH	5.7 (20.1 mg/l, 20 °C, OECD 105: Water Solubility)
<b>Aerosil R972 (68611-44-9)</b>	
pH	8 - 10
Respiratory or skin sensitisation : May cause an allergic skin reaction.	
Germ cell mutagenicity : Not classified	
Carcinogenicity : Not classified	
<b>Ytterbium Fluoride (13760-80-0)</b>	
IARC group	4 - Probably not carcinogenic to humans
Reproductive toxicity : Not classified	
STOT-single exposure : May cause respiratory irritation.	
<b>BisGMA (1565-94-2)</b>	
STOT-single exposure	May cause respiratory irritation.
<b>Urethane Dimethacrylate (72869-86-4)</b>	
STOT-single exposure	May cause respiratory irritation.
<b>Tetrahydrofurfuryl Methacrylate (2455-24-5)</b>	
STOT-single exposure	May cause respiratory irritation.

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<b>Ethyl 4-Dimethylaminobenzoate (10287-53-3)</b>	
STOT-single exposure	May cause drowsiness or dizziness.
<b>Ytterbium Fluoride (13760-80-0)</b>	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
<b>Triethylene Glycol Dimethacrylate (109-16-0)</b>	
LOAEC (inhalation, rat, gas, 90 days)	350 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Remarks on results: other:
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
NOAEC (inhalation, rat, gas, 90 days)	100 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Remarks on results: other:
<b>2,4-Dihydroxybenzophenone (131-56-6)</b>	
NOAEL (oral, rat, 90 days)	236 mg/kg bodyweight Animal: rat, Guideline: other:
<b>Ethyl 4-Dimethylaminobenzoate (10287-53-3)</b>	
NOAEL (oral, rat, 90 days)	74 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents), Guideline: EU Method B.7 (Repeated Dose (28 Days) Toxicity (Oral))
<b>Trimethylolpropane Trimethacrylate (3290-92-4)</b>	
LOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)
LOAEL (dermal, rat/rabbit, 90 days)	300 mg/kg bodyweight Animal: rabbit
NOAEL (oral, rat, 90 days)	300 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents), Remarks on results: other:
NOAEL (dermal, rat/rabbit, 90 days)	300 mg/kg bodyweight Animal: rabbit
Aspiration hazard	: Not classified
<b>Aelite Aesthetic Enamel</b>	
Viscosity, kinematic	Not applicable
<b>Silicon Dioxide (112945-52-5)</b>	
Viscosity, kinematic	Not applicable
<b>Ethoxylated Bis A Dimethacrylate (41637-38-1)</b>	
Viscosity, kinematic	No data available in the literature
<b>Tetrahydrofurfuryl Methacrylate (2455-24-5)</b>	
Viscosity, kinematic	2.74 mm²/s (20 °C, OECD 114: Viscosity of Liquids)
<b>Ethyl 4-Dimethylaminobenzoate (10287-53-3)</b>	
Viscosity, kinematic	Not applicable
<b>Trimethylolpropane Trimethacrylate (3290-92-4)</b>	
Viscosity, kinematic	6.166 mm²/s

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### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

#### BisGMA (1565-94-2)

LC50 - Fish [1]	0.537 mg/l Source: ECOSAR
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#### Urethane Dimethacrylate (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)

#### Ethoxylated Bis A Dimethacrylate (41637-38-1)

LC50 - Fish [1]	> 100 mg/l Source: ECAH
EC50 72h - Algae [1]	> 100 mg/l Source: ECAH

#### Triethylene Glycol Dimethacrylate (109-16-0)

LC50 - Fish [1]	16.4 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	72.8 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
ErC50 algae	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)
LOEC (chronic)	100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	32 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

#### Tetrahydrofurfuryl Methacrylate (2455-24-5)

LC50 - Fish [1]	34.7 mg/l Test organisms (species): Pimephales promelas
LC50 - Fish [2]	60.9 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	97.3 mg/l (Invertebrata, Fresh water)
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
ErC50 algae	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)
LOEC (chronic)	97.3 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	37.2 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

#### 2,4-Dihydroxybenzophenone (131-56-6)

LC50 - Fish [1]	3.7 mg/l Test organisms (species): Oryzias latipes
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<b>2,4-Dihydroxybenzophenone (131-56-6)</b>	
EC50 96h - Algae [1]	2.12 mg/l Test organisms (species):
<b>Ethyl 4-Dimethylaminobenzoate (10287-53-3)</b>	
LC50 - Fish [1]	1.9 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value)
EC50 - Crustacea [1]	4.5 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
EC50 72h - Algae [1]	2.8 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Semi-static system, Fresh water, Experimental value, GLP)
EC50 72h - Algae [2]	0.96 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
<b>Trimethylolpropane Trimethacrylate (3290-92-4)</b>	
LC50 - Fish [1]	0.731 mg/l Source: Ecological Structure Activity Relationships
EC50 - Crustacea [1]	> 9.22 mg/l Test organisms (species): Daphnia magna
ErC50 algae	3.88 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
<b>Aerosil R972 (68611-44-9)</b>	
LC50 - Fish [1]	> 10000 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Brachydanio rerio, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	> 10000 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 24 h, Daphnia magna, Experimental value, Nominal concentration)
<b>12.2. Persistence and degradability</b>	
<b>Aelite Aesthetic Enamel</b>	
Persistence and degradability	Rapidly degradable
<b>Silicon Dioxide (112945-52-5)</b>	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
<b>BisGMA (1565-94-2)</b>	
Persistence and degradability	Biodegradability in water: no data available.
<b>Urethane Dimethacrylate (72869-86-4)</b>	
Persistence and degradability	Rapidly degradable
<b>Ethoxylated Bis A Dimethacrylate (41637-38-1)</b>	
Persistence and degradability	Not readily biodegradable in water.
<b>Triethylene Glycol Dimethacrylate (109-16-0)</b>	
Persistence and degradability	Readily biodegradable in water.
<b>Tetrahydrofurfuryl Methacrylate (2455-24-5)</b>	
Persistence and degradability	Readily biodegradable in water.

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<b>2,4-Dihydroxybenzophenone (131-56-6)</b>	
Persistence and degradability	Inherently biodegradable.
<b>Ethyl 4-Dimethylaminobenzoate (10287-53-3)</b>	
Persistence and degradability	Not readily biodegradable in water.
<b>Trimethylolpropane Trimethacrylate (3290-92-4)</b>	
Persistence and degradability	Not readily biodegradable in water, Inherently biodegradable.
<b>Ytterbium Fluoride (13760-80-0)</b>	
Persistence and degradability	Rapidly degradable
<b>Aerosil R972 (68611-44-9)</b>	
Persistence and degradability	Biodegradability: not applicable.
<b>12.3. Bioaccumulative potential</b>	
<b>Silicon Dioxide (112945-52-5)</b>	
Bioaccumulative potential	Not bioaccumulative.
<b>BisGMA (1565-94-2)</b>	
Partition coefficient n-octanol/water (Log Pow)	4.94 (Estimated value)
Bioaccumulative potential	No bioaccumulation data available.
<b>Urethane Dimethacrylate (72869-86-4)</b>	
Partition coefficient n-octanol/water (Log Pow)	3 Source: ECHA
<b>Ethoxylated Bis A Dimethacrylate (41637-38-1)</b>	
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).
<b>Triethylene Glycol Dimethacrylate (109-16-0)</b>	
Partition coefficient n-octanol/water (Log Pow)	2.3 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
<b>Tetrahydrofurfuryl Methacrylate (2455-24-5)</b>	
Partition coefficient n-octanol/water (Log Pow)	1.76 (Experimental value, EU Method A.8: Partition Coefficient, 22.6 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
<b>2,4-Dihydroxybenzophenone (131-56-6)</b>	
Partition coefficient n-octanol/water (Log Pow)	2.964 (Calculated, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
<b>Ethyl 4-Dimethylaminobenzoate (10287-53-3)</b>	
Partition coefficient n-octanol/water (Log Pow)	3.2 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
<b>Trimethylolpropane Trimethacrylate (3290-92-4)</b>	
BCF - Fish [1]	270.1 l/kg (BCFBAF v3.01, Pisces, Fresh water, Calculated value)

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Trimethylolpropane Trimethacrylate (3290-92-4)	
Partition coefficient n-octanol/water (Log Pow)	4.193 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)
Bioaccumulative potential	Potential for bioaccumulation ( $4 \leq \text{Log Kow} \leq 5$ ).
Aerosil R972 (68611-44-9)	
Bioaccumulative potential	Not bioaccumulative.
12.4. Mobility in soil	
Urethane Dimethacrylate (72869-86-4)	
Mobility in soil	1512 Source: EPI SUITE
Ethoxylated Bis A Dimethacrylate (41637-38-1)	
Surface tension	No data available in the literature
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.56 - 3.88 (log Koc, Calculated value)
Ecology - soil	Low potential for mobility in soil.
Triethylene Glycol Dimethacrylate (109-16-0)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.89 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Highly mobile in soil.
Tetrahydrofurfuryl Methacrylate (2455-24-5)	
Surface tension	No data available in the literature
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.402 - 1.765 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Highly mobile in soil.
2,4-Dihydroxybenzophenone (131-56-6)	
Ecology - soil	No (test)data on mobility of the substance available.
Ethyl 4-Dimethylaminobenzoate (10287-53-3)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.8 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP)
Ecology - soil	Low potential for adsorption in soil.
Trimethylolpropane Trimethacrylate (3290-92-4)	
Surface tension	53 mN/m (20 °C, 0.951 g/l, OECD 115: Surface Tension of Aqueous Solutions)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.245 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP)
Ecology - soil	Low potential for mobility in soil.
Aerosil R972 (68611-44-9)	
Ecology - soil	Low potential for mobility in soil.

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### 12.5. Results of PBT and vPvB assessment

#### Component

Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Ethoxylated Bis A Dimethacrylate (41637-38-1), Triethylene Glycol Dimethacrylate (109-16-0), Tetrahydrofurfuryl Methacrylate (2455-24-5), 2,4-Dihydroxybenzophenone (131-56-6), Ethyl 4-Dimethylaminobenzoate (10287-53-3), Trimethylolpropane Trimethacrylate (3290-92-4)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Ethoxylated Bis A Dimethacrylate (41637-38-1), Triethylene Glycol Dimethacrylate (109-16-0), Tetrahydrofurfuryl Methacrylate (2455-24-5), 2,4-Dihydroxybenzophenone (131-56-6), Ethyl 4-Dimethylaminobenzoate (10287-53-3), Trimethylolpropane Trimethacrylate (3290-92-4)

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

## SECTION 14: Transport information

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

### 14.1. UN number or ID number

Not regulated for transport

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable  
Proper Shipping Name (IMDG) : Not applicable  
Proper Shipping Name (IATA) : Not applicable  
Proper Shipping Name (ADN) : Not applicable  
Proper Shipping Name (RID) : Not applicable

### 14.3. Transport hazard class(es)

**ADR**  
Transport hazard class(es) (ADR) : Not applicable

**IMDG**  
Transport hazard class(es) (IMDG) : Not applicable

**IATA**  
Transport hazard class(es) (IATA) : Not applicable

**ADN**  
Transport hazard class(es) (ADN) : Not applicable

**RID**  
Transport hazard class(es) (RID) : Not applicable

### 14.4. Packing group

Packing group (ADR) : Not applicable  
Packing group (IMDG) : Not applicable

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Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable

### 14.5. Environmental hazards

Other information : No supplementary information available

### 14.6. Special precautions for user

#### Overland transport

No data available

#### Transport by sea

No data available

#### Air transport

No data available

#### Inland waterway transport

No data available

#### Rail transport

No data available

### 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)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

##### REACH Annex XIV (Authorisation List)

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

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

##### 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)

##### Council Regulation (EC) for the control of dual-use items

Contains substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

##### 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)

#### 15.1.2. National regulations

No additional information available

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### 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 version of	Modified	
	Revision date	Modified	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.2	Precautionary statements (CLP)	Modified	
3	Composition/information on ingredients	Modified	

#### Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard, Category 2
Aquatic Chronic 4	Hazardous to the aquatic environment - Chronic Hazard, Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H360	May damage fertility or the unborn child.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
Repr. 1B	Reproductive toxicity, Category 1B
Repr. 2	Reproductive toxicity, Category 2
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

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.