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

Printing date 11.04.2023

Version number 2 (replaces version 1)

Revision: 11.04.2023

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

· 1.1 Product identifier

• Trade name: everX Flow

Nanoform

• 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.

· Application of the substance / the mixture Auxiliary for dental technology

• 1.3 Details of the supplier of the safety data sheet

• Manufacturer/Supplier: GC EUROPE N.V. Interleuvenlaan 33 B-3001 Leuven Tel. +32/(0)16/74.10.00 Fax +32/(0)16/40.26.84 msds@gc.dental

· Information department: Regulatory affairs

· 1.4 Emergency telephone number: International: +01-813-248-0585 (ChemTel Inc.)

## **SECTION 2: Hazards identification**

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

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

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

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labeled according to the CLP regulation.

• Exemptions

The product, regulated as an invasive medical device by the Regulation (EC) 2017/745, is exempted from labelling requirements for substances and mixtures (according to the provision of the Art 1.5).

• Hazard pictograms



· Signal word Warning

· Hazard-determining components of labeling:

- Urethane Dimethacrylate (UDMA)
- $2,2'-ethylenedioxydiethyl\ dimethacrylate$
- 2-(2H-benzotriazol-2-yl)-p-cresol
- · Hazard statements

H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects.

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List II

#### Trade name: everX\_Flow

· Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

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

*P273 Avoid release to the environment.* 

P280 Wear protective gloves.

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

*P501* Dispose of contents/container in accordance with local/regional/national/international regulations. • 2.3 Other hazards

· Results of PBT and vPvB assessment

• *PBT:* Not applicable.

• vPvB: Not applicable.

· Determination of endocrine-disrupting properties

128-37-0 Butylated hydroxytoluene

## **SECTION 3:** Composition/information on ingredients

#### · 3.2 Chemical characterization: Mixtures

#### • Description:

Only substances required to be mentioned according to Annex II of regulation 1907/2006 are listed. Information on the other substances that may be present can be obtained upon request.

•	components:	
41637-38-1	Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2- methylprop-2-enoic acid.	10-<25%
	Aquatic Chronic 4, H413	
72869-86-4	Urethane Dimethacrylate (UDMA)	5-<10%
	Aquatic Chronic 2, H411; Skin Sens. 1B, H317	
109-16-0	2,2'-ethylenedioxydiethyl dimethacrylate	2.5-<5%
	Skin Sens. 1, H317	
128-37-0	Butylated hydroxytoluene	≥0.25-<0.5%
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
1879-09-0	6-tert-butyl-2,4-xylenol	
	Acute Tox. 2, H310; STOT RE 2, H373; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	
2440-22-4	2-(2H-benzotriazol-2-yl)-p-cresol	≥0.25-<0.5%
	Acute Tox. 3, H331; Aquatic Chronic 1, H410; Skin Sens. 1, H317	
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	0.2-<0.5%
	Repr. 2, H361f	
68611-44-9	Silane, dichlorodimethyl-, reaction products with silica	0.2-<0.5%
13463-67-7	titanium dioxide	0.1-<0.2%
	Carc. 2, H351	

## **SECTION 4:** First aid measures

· 4.1 Description of first aid measures

• General information:

Immediately remove any clothing soiled by the product.

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#### Trade name: everX\_Flow

If symptoms persist consult doctor.

• After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Take affected persons into fresh air and keep quiet.

• *After skin contact: Immediately wash with water and soap and rinse thoroughly.* 

Seek medical treatment.

If skin irritation continues, consult a doctor.

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

• After swallowing:

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

+ 4.2 Most important symptoms and effects, both acute and delayed Allergic reactions

- 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

## **SECTION 5:** Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- For safety reasons unsuitable extinguishing agents: Water
- 5.2 Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire. No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.
- Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## **SECTION 6:** Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures Remove persons from danger area. Avoid contact with the eyes and skin. Wear protective clothing. · 6.2 Environmental precautions: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to penetrate the ground/soil. In case of seepage into the ground inform responsible authorities. · 6.3 Methods and material for containment and cleaning up: Absorb liquid components with liquid-binding material. Dispose of the collected material according to regulations. · 6.4 Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

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#### Trade name: everX\_Flow

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#### SECTION 7: Handling and storage

• 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Avoid contact with the eyes and skin.

· Information about protection against explosions and fires: Protect against electrostatic charges.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

• Requirements to be met by storerooms and receptacles: Store only in unopened original receptacles.

- · Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions: None.

· 7.3 Specific end use(s) No further relevant information available.

#### SECTION 8: Exposure controls/personal protection

#### · 8.1 Control parameters

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

#### · DNELs

#### 128-37-0 Butylated hydroxytoluene

Dermal DNEL dermal 0.5 mg/kg bw/day (man)

Inhalative DNEL inhalation 3.5 mg/m3 (man)

1879-09-0 6-tert-butyl-2,4-xylenol

Inhalative DNEL inhalation 0.14 mg/m3 (man)

#### 13463-67-7 titanium dioxide

Inhalative DNEL inhalation 10 mg/m3 (man)

• Additional information: The lists that were valid during the creation were used as basis.

- · 8.2 Exposure controls
- Additional information about design of technical systems: No further data; see item 7.
- Personal protective equipment:
- · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

- · Breathing equipment: Suitable respiratory protective device recommended.
- · Protection of hands:



Protective gloves

#### · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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· Penetration time of glove material

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

• Eye protection:



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Tightly sealed goggles

# SECTION 9: Physical and chemical properties

General Information	
Physical state	Fluid
Color:	According to product specification
Odor:	Odorless
Odor threshold:	Not determined.
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	190 °C
Flammability (solid, gaseous):	Not applicable.
Explosion limits:	11
Lower:	Not determined.
Upper:	Not determined.
Flash point:	92 °C
Ignition temperature:	Undetermined.
Decomposition temperature:	Not determined.
pH-value:	Not determined.
Viscosity:	Not deler mined.
Kinematic:	Not determined.
Dynamic:	Not determined.
•	Noi uelerminea.
Solubility in / Miscibility with	Insoluble.
Water:	
Partition coefficient (n-octanol/water):	Not determined.
Vapor pressure:	Not determined.
Density and/or relative density	
Density at 20 °C:	$1.8 \ g/cm^3$
Relative density	Not determined.
Vapor density	Not determined.
Particle characteristics	SiO2: Diameter particle structure = $2.5 - 50$ nm (TEI
	d50, number-based)
	Diameter agglomerate $= 5 - 50$ mm (laser diffraction d
	module, d50, volume based)
	68611-44-9 Silane, dichlorodimethyl-, reaction produc
	with silica: Spheroidal, amorphous nanoform, s
	including amorphous nanoforms, amorphous form
	surface-treated nanoforms
9.2 Other information	· · ·
Appearance: Form:	Dasty
rorm.	Pasty

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Important information on protection of hea	alth and	
environment, and on safety.	iiin unu	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Solvent content:	Troduct does not present an explosion huzara.	
VOC (EC)	$0.0 \ g/l$	
Change in condition	0.0 g/r	
Evaporation rate	Not determined.	
Information with regard to physical hazard cla	ISSES	
Explosives	Void	
Flammable gases	Void	
Aerosols	Void	
Oxidising gases	Void	
Gases under pressure	Void	
Flammable liquids	Void	
Flammable solids	Void	
Self-reactive substances and mixtures	Void	
Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit flammal	ble gases	
in contact with water	Void	
Oxidising liquids	Void	
Oxidising solids	Void	
Organic peroxides	Void	
Corrosive to metals	Void	
Desensitised explosives	Void	

## SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.

• 10.6 Hazardous decomposition products: No dangerous decomposition products known.

## **SECTION 11:** Toxicological information

• 11.1 Information on toxicological effects

• Acute toxicity: Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification:

72869-86-4	Urethane	Dimethacrylate	(UDMA)
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Oral LD50 >5,000 mg/kg (rat female) (OECD 401)

128-37-0 Butylated hydroxytoluene

*Oral LD50* >6,000 mg/kg (rat (f+m)) (OECD 401)

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1879-09-0	6-tert-buty	vl-2,4-xylenol	
Oral	LD50	910 mg/kg (rat (f+m)) (OECD 401)	
Dermal	LD50	<200 mg/kg (rabbit) (OECD 402)	
2440-22-4	2-(2H-ben	zotriazol-2-yl)-p-cresol	
Oral	LD50	10,000 mg/kg (rat (f+m))	
Inhalative	LC50/4 h	0.59 mg/l (rat (f+m))	
13463-67-2	7 titanium	dioxide	
Oral	LD50	>5,000 mg/kg (mouse) (OECD 420)	
Inhalative	LC50/4 h	>6.82 mg/l (rat male)	
Carcinoger Reproducti Specific tai Specific tai Aspiration Additional	nicity Base ive toxicity rget organ rget organ hazard Ba toxicologi	ity Based on available data, the classification criteria are not met. ed on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. toxicity - single exposure Based on available data, the classification criteria are not m toxicity - repeated exposure Based on available data, the classification criteria are not used on available data, the classification criteria are not met. cal information:	
	· •	onal Safety & Health Administration)	
None of the	0		
<b>CMR effec</b> No further	<b>ts (carcino</b> relevant in	ty No further relevant information available. Ogenity, mutagenicity and toxicity for reproduction) Iformation available. other hazards	
Endocrine			
Linuocime	usiupung	<i>properues</i>	

## SECTION 12: Ecological information

· 12.1 Toxicity

• Aquatic toxicity:

72869-86-4 Urethane Dimethacrylate (UDMA)

EC50/48h (static) >1.2 mg/l (daphnia magna) (OECD 202)

128-37-0 Butylated hydroxytoluene

EC50/48h (static) 0.48 mg/l (daphnia magna) (OECD 202)

• 12.2 Persistence and degradability No further relevant information available.

· 12.3 Bioaccumulative potential No further relevant information available.

· 12.4 Mobility in soil No further relevant information available.

· 12.5 Results of PBT and vPvB assessment

• *PBT:* Not applicable.

· vPvB: Not applicable.

• 12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.

· 12.7 Other adverse effects

• **Remark:** Harmful to fish

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Trade name: everX Flow

• Additional ecological information:

· General notes:

Water hazard class 2 (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Harmful to aquatic organisms

## **SECTION 13: Disposal considerations**

· 13.1 Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

# • European waste catalogue 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) 18 01 00 wastes from natal care, diagnosis, treatment or prevention of disease in humans 18 01 06\* chemicals consisting of or containing hazardous substances

· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information	tion	
14.1 UN-Number ADR, ADN, IMDG, IATA	not regulated	
14.2 UN proper shipping name DOT, ADR, ADN, IMDG, IATA	not regulated	
14.3 Transport hazard class(es)		
ADR, ADN, IMDG, IATA Class	not regulated	
14.4 Packing group ADR, IMDG, IATA	not regulated	
14.5 Environmental hazards: Marine pollutant:	No	
14.6 Special precautions for user	Not applicable.	
14.7 Transport in bulk according to Ann. MARPOL73/78 and the IBC Code	ex II of Not applicable.	
UN "Model Regulation":	not regulated	

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#### **SECTION 15: Regulatory information**

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

• Section 355 (extremely hazardous substances):

None of the ingredient is listed.

• Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· Proposition 65

• Chemicals known to cause cancer:

13463-67-7 titanium dioxide

• Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

• Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

128-37-0 Butylated hydroxytoluene

1309-37-1 Iron(III)oxide

13463-67-7 titanium dioxide

· MAK (German Maximum Workplace Concentration)

128-37-0 Butylated hydroxytoluene

13463-67-7 titanium dioxide

·NIOSH-Ca (National Institute for Occupational Safety and Health)

13463-67-7 titanium dioxide

• *Directive 2012/18/EU* 

• Named dangerous substances - ANNEX I None of the ingredients is listed.

• REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

• DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

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Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

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

#### **SECTION 16: Other information**

#### · Relevant phrases

H302 Harmful if swallowed.

- H310 Fatal in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.

H351 Suspected of causing cancer.

H361f Suspected of damaging fertility.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

· Classification according to Regulation (EC) No 1272/2008 Calculation method

#### · Department issuing SDS: Regulatory affairs

· Contact: msds@gc.dental

• Date of previous version 07.04.2023

· Version number of previous version: 1

#### · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) DNEL: Derived No-Effect Level (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health Acute Tox. 4: Acute toxicity - Category 4 Acute Tox. 2: Acute toxicity – Category 2 Acute Tox. 3: Acute toxicity - Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 Skin Sens. 1: Skin sensitisation - Category 1 Skin Sens. 1B: Skin sensitisation - Category 1B Carc. 2: Carcinogenicity – Category 2 Repr. 2: Reproductive toxicity – Category 2 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

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Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3 Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4
· Sources
• ECHA (http://echa.europa.eu/)
• EnviChem (www.echemportal.org)
* * Data compared to the previous version altered.
This version replaces all previous versions.
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# Safety data sheet

## according to 1907/2006/EC, Article 31

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Version number 1

Revision: 04.06.2021

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

· 1.1 Product identifier

· Trade name: GC G-aenial A'CHORD

• 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.

· Application of the substance / the mixture Auxiliary for dental technology

· 1.3 Details of the supplier of the safety data sheet

• Manufacturer/Supplier: GC EUROPE N.V. Interleuvenlaan 33 B-3001 Leuven Tel. +32/(0)16/74.10.00 Fax +32/(0)16/40.26.84 msds@gc.dental

• Information department: Regulatory affairs • 1.4 Emergency telephone number: International: +01-813-248-0585 (ChemTel Inc.)

## **SECTION 2: Hazards identification**

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

*Exempt from requirements - product regulated as a medical device or an in vitro diagnostic medical device.* 

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

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

#### · 2.2 Label elements

#### · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labeled according to the CLP regulation.

· Exemptions

The product, regulated as an invasive medical device by the Regulation (EC) 2017/745, is exempted from labelling requirements for substances and mixtures (according to the provision of the Art 1.5).

• Hazard pictograms



· Signal word Warning

 Hazard-determining components of labeling: Urethane Dimethacrylate (UDMA)
 2,2'-ethylenedioxydiethyl dimethacrylate (octahydro-4,7-methano-1H-indenediyl)bis(methylene) bismethacrylate

· Hazard statements

H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects.

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#### Trade name: GC G-aenial A'CHORD

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#### · Precautionary statements

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

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

*P273 Avoid release to the environment.* 

P280 Wear protective gloves.

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

*P501* Dispose of contents/container in accordance with local/regional/national/international regulations. • 2.3 Other hazards

• Results of PBT and vPvB assessment

• *PBT:* Not applicable.

• **vPvB:** Not applicable.

## **SECTION 3:** Composition/information on ingredients

#### · 3.2 Chemical characterization: Mixtures

· Description:

Only substances required to be mentioned according to Annex II of regulation 1907/2006 are listed. Information on the other substances that may be present can be obtained upon request.

41637-38-1	Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-	10-<25%
	methylprop-2-enoic acid.	
	Aquatic Chronic 4, H413	
72869-86-4	Urethane Dimethacrylate (UDMA)	2.5-<5%
	Aquatic Chronic 2, H411; Skin Sens. 1B, H317	
109-16-0	2,2'-ethylenedioxydiethyl dimethacrylate	2.5-<5%
	Skin Sens. 1, H317	
1985-51-9	2,2-dimethyl-1,3-propanediyl bismethacrylate	1-<2.5%
	Skin Irrit. 2, H315; Eye Irrit. 2, H319	
43048-08-4	(octahydro-4,7-methano-1H-indenediyl)bis(methylene) bismethacrylate	1-<2.5%
	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	
5870-38-2	Diethyl 2,5-dihydroxyterephthalate	1-<2.5%
	Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
128-37-0	Butylated hydroxytoluene	≥0.25-<0.5%
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
1879-09-0	6-tert-butyl-2,4-xylenol	0.1-<0.2%
	Acute Tox. 2, H310; STOT RE 2, H373; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	0.1-<0.2%
	Repr. 2, H361f	1

## **SECTION 4:** First aid measures

• 4.1 Description of first aid measures

• General information:

*Immediately remove any clothing soiled by the product. If symptoms persist consult doctor.* 

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• After inhalation:

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Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Take affected persons into fresh air and keep quiet.

• *After skin contact: Immediately wash with water and soap and rinse thoroughly.* 

Seek medical treatment.

If skin irritation continues, consult a doctor.

• After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

• After swallowing:

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

• 4.2 Most important symptoms and effects, both acute and delayed Allergic reactions

- 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

## **SECTION 5:** Firefighting measures

• 5.1 Extinguishing media

• Suitable extinguishing agents:

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

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire. No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.
- Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## **SECTION 6:** Accidental release measures

Remove persons from danger area. Avoid formation of dust.
Avoid contact with the eyes and skin.
Wear protective clothing.
· 6.2 Environmental precautions:
Do not allow product to reach sewage system or any water course.
Do not allow to penetrate the ground/soil.
· 6.3 Methods and material for containment and cleaning up:
Pick up mechanically.
Prevent formation of dust.
Dispose of the collected material according to regulations.
· 6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

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#### SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of dust.

*Any deposit of dust which cannot be avoided must be regularly removed. Avoid contact with the eyes and skin.* 

Information about protection against explosions and fires:

Dust can combine with air to form an explosive mixture.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles: Store only in unopened original receptacles.

· Information about storage in one common storage facility: Store away from foodstuffs.

· Further information about storage conditions: None.

• 7.3 Specific end use(s) No further relevant information available.

## SECTION 8: Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

#### · 8.1 Control parameters

· Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

#### · DNELs

#### 13463-67-7 titanium dioxide

Inhalative DNEL inhalation 10 mg/m3 (man)

#### 128-37-0 Butylated hydroxytoluene

Dermal DNEL dermal 0.5 mg/kg bw/day (man)

Inhalative DNEL inhalation 3.5 mg/m3 (man)

#### 1879-09-0 6-tert-butyl-2,4-xylenol

Inhalative DNEL inhalation 0.14 mg/m3 (man)

• Additional information: The lists that were valid during the creation were used as basis.

· 8.2 Exposure controls

· Personal protective equipment:

• General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Do not inhale dust / smoke / mist.

Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

• *Breathing equipment:* Suitable respiratory protective device recommended.

• Protection of hands:



Protective gloves

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• Material of gloves

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The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

# • *Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.*

• Eye protection:



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Tightly sealed goggles

## **SECTION 9:** Physical and chemical properties

•9.1 Information on basic physical a	nd chemical properties
· General Information	
· Appearance: Form:	Pasty
Color:	According to product specification
· Odor:	Odorless
· Odor threshold:	Not determined.
· pH-value:	Not applicable.
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not determined.
· Ignition temperature:	Undetermined.
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
• Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not applicable.
· Density at 20 °C:	$1.9 \ g/cm^3$
· Relative density	Not determined.
· Vapor density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with	
Water:	Insoluble.
· Partition coefficient (n-octanol/wat	er): Not determined.
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· Viscosity:

Dynamic:

Kinematic:

• 9.2 Other information

Not applicable. Not applicable. No further relevant information available.

## SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

• 10.3 Possibility of hazardous reactions No dangerous reactions known.

• 10.4 Conditions to avoid No further relevant information available.

• 10.5 Incompatible materials: No further relevant information available.

• 10.6 Hazardous decomposition products: No dangerous decomposition products known.

## SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

• Acute toxicity: Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification:

72869-86-4 Urethane Dimethacrylate (UDMA)

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

1309-37-1 Iron(III)oxide

*Oral LD50* >5,000 mg/kg (rat (f+m))

13463-67-7 titanium dioxide

*Oral LD50* >5,000 mg/kg (mouse) (OECD 420)

Inhalative LC50/4 h >6.82 mg/l (rat male)

128-37-0 Butylated hydroxytoluene

*Oral LD50* >6,000 mg/kg (rat (f+m)) (OECD 401)

1879-09-0 6-tert-butyl-2,4-xylenol

Oral	LD50	910 mg/kg (rat (f+m)) (OECD 401)
Dermal	LD50	<200 mg/kg (rabbit) (OECD 402)

· Primary irritant effect:

• on the skin: Based on available data, the classification criteria are not met.

• on the eye: Based on available data, the classification criteria are not met.

· Sensitization:

May cause an allergic skin reaction.

· Additional toxicological information:

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

• *Repeated dose toxicity No further relevant information available.* 

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

No further relevant information available.

• Germ cell mutagenicity Based on available data, the classification criteria are not met.

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

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- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

## **SECTION 12: Ecological information**

- · 12.1 Toxicity
- Aquatic toxicity:

72869-86-4 Urethane Dimethacrylate (UDMA)

EC50/48h (static) >1.2 mg/l (daphnia magna) (OECD 202)

128-37-0 Butylated hydroxytoluene

EC50/48h (static) 0.48 mg/l (daphnia magna) (OECD 202)

- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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

## **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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

14.1 UN-Number		
ADR, IMDG, IATA	not regulated	
14.2 UN proper shipping name		
DOT, ADR, IMDG, IAŤA	not regulated	
14.3 Transport hazard class(es)		
ADR, ADN, IMDG, IATA		
Class	not regulated	
14.4 Packing group		
ADR, IMDG, IATA	not regulated	

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· 14.5 Environmental hazards:	Not applicable.	
· 14.6 Special precautions for user	Not applicable.	
• 14.7 Transport in bulk according to Ann		
MARPOL73/78 and the IBC Code	Not applicable.	
· UN "Model Regulation":	not regulated	

## **SECTION 15: Regulatory information**

 $\cdot$  15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture  $\cdot$  Sara

• Section 355 (extremely hazardous substances):

None of the ingredient is listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· Proposition 65

• Chemicals known to cause cancer:

13463-67-7 titanium dioxide

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

1309-37-1 Iron(III)oxide

13463-67-7 titanium dioxide

128-37-0 Butylated hydroxytoluene

· MAK (German Maximum Workplace Concentration)

13463-67-7 titanium dioxide

128-37-0 Butylated hydroxytoluene

· NIOSH-Ca (National Institute for Occupational Safety and Health)

13463-67-7 titanium dioxide

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

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

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#### **SECTION 16: Other information** · Relevant phrases H302 Harmful if swallowed. H310 Fatal in contact with skin. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H361f Suspected of damaging fertility. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H413 May cause long lasting harmful effects to aquatic life. · Classification according to Regulation (EC) No 1272/2008 Calculation method · Department issuing SDS: Regulatory affairs · Contact: msds@gc.dental · Abbreviations and acronvms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health Acute Tox. 4: Acute toxicity - oral - Category 4 Acute Tox. 2: Acute toxicity - dermal - Category 2 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Skin Sens. 1: Skin sensitisation - Category 1 Skin Sens. 1B: Skin sensitisation - Category 1B Repr. 2: Reproductive toxicity – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3 Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard - Category 4 · Sources • ECHA (http://echa.europa.eu/) • EnviChem (www.echemportal.org) • \* Data compared to the previous version altered. This version replaces all previous versions. Disclaimer: The information contained herein is believed to be true and accurate. However, all statements, recommendations or suggestions are made without any guarantee, representation or warranty, express or implied, on our part. Therefore, no warranty is made or to be implied that the information set out in this document is accurate or

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