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

Printing date 14.12.2023

Version number 5 (replaces version 4)

Revision: 14.12.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Trade name: Essentia HiFlo · 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 Auxillary 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)16/40.26.84msds@gc.dental · Further information obtainable from: Regulatory affairs · 1.4 Emergency telephone number: International: +01-813-248-0585 (ChemTel Inc.) National poison center for United Kingdom of Great Britain and Northern Ireland: Belfast: +44 28 90 63 2032 Birmingham: +44 121 507 4123 Edinburgh: +44 131 242 1383 Newcastle Upon Tyne: +44 191 2606182/+44 191 2606180 Penarth: +44 292 071 55 54

# **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 labelled according to the GB 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 labelling:* Urethane Dimethacrylate (UDMA)

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2,2'-ethylenedioxydiethyl dimethacrylate

- 1,3,5-Triazine-2,4,6-triamine, polymer with formaldehyde

Hazard statements

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

## · 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 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.

CAS: 41637-38-1	<i>Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid.</i> <i>Aquatic Chronic 4, H413</i>	10-<25%
CAS: 72869-86-4 EINECS: 276-957-5	<i>Aquatic Chronic 4, 11415</i> Urethane Dimethacrylate (UDMA) Aquatic Chronic 2, H411; Skin Sens. 1B, H317	5-<10%
CAS: 109-16-0 EINECS: 203-652-6	2,2'-ethylenedioxydiethyl dimethacrylate Skin Sens. 1, H317	2.5-<5%
CAS: 68611-44-9 EINECS: 271-893-4	Silane, dichlorodimethyl-, reaction products with silica Nanoform: set including amorphous nanoforms surface-treated nanoforms Shape: Spheroidal Structure: amorphous forms Crystallinity: amorphous nanoform	1-<2.5%
CAS: 1309-37-1 EINECS: 215-168-2	Iron(III)oxide substance with a Community workplace exposure limit	0.5-<1%
CAS: 9003-08-1	1,3,5-Triazine-2,4,6-triamine, polymer with formaldehyde Eye Dam. 1, H318; Skin Sens. 1, H317; STOT SE 3, H335	0.5-<1%
CAS: 13463-67-7 EINECS: 236-675-5 Index number: 022-006-00-2	titanium dioxide Carc. 2, H351 substance with a Community workplace exposure limit	0.5-<1%
CAS: 1879-09-0 EINECS: 217-533-1	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	0.1-<0.2%

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CAS: 2440-22-4	2-(2H-benzotriazol-2-yl)-p-cresol	0.1-<0.2%
EINECS: 219-470-5	Acute Tox. 3, H331; Aquatic Chronic 1, H410; Skin Sens. 1, H317	
CAS: 75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	0.1-<0.2%
EINECS: 278-355-8	Repr. 2, H361f	
Index number: 015-203-00-X		

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

## **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.
- 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 formation of dust.
- Avoid contact with the eyes and skin.
- Wear protective clothing.

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## · 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course. Do not allow to penetrate the ground/soil. Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up: Allow to evaporate. Pick up mechanically. Prevent formation of dust. Dispose of the material collected 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.

## SECTION 7: Handling and storage

## · 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Prevent formation of dust. Any unavoidable deposit of dust must be regularly removed. Avoid contact with the eyes and skin.

• Information about fire - and explosion protection: Protect against electrostatic charges. 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**

#### · 8.1 Control parameters

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

1309-37-1 Iron(III)oxide

WEL Short-term value: 10\* mg/m<sup>3</sup> Long-term value: 5\* 10\*\* 4\*\*\* mg/m<sup>3</sup> \*fume (as Fe), \*\*total respirable, \*\*\*respirable

#### 13463-67-7 titanium dioxide

WEL Long-term value: 10\* 4\*\* mg/m<sup>3</sup> \*total inhalable \*\*respirable

· DNELs

13463-67-7 titanium dioxide

Inhalative DNEL inhalation 10 mg/m3 (man)

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

Inhalative DNEL inhalation 0.14 mg/m3 (man)

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• Melting point/freezing point:

· Lower and upper explosion limit

· Flammability

· Flash point:

· Lower: · Upper:

 $\cdot$  Boiling point or initial boiling point and boiling range 180 °C

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• Additional information: The lists valid during the ma	(Contd. of page 4) <i>king were used as basis.</i>
· 8.2 Exposure controls	
• Appropriate engineering controls No further data; se	e section 7
· Individual protection measures, such as personal pro	
• General protective and hygienic measures:	
The usual precautionary measures are to be adhered	to when handling chemicals.
Do not inhale dust / smoke / mist.	0
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 cloth	hing
· Respiratory protection:	
	tory filter device. In case of intensive or longer exposure use
self-contained respiratory protective device.	
Suitable respiratory protective device recommended.	
• Hand protection	material can be since for the nucleot the propagation the
chemical mixture.	e material can be given for the product/ the preparation/ the
chemicul mixture.	
m	
Protective gloves	
Metavial of clours	
• Material of gloves The selection of the suitable gloves does not only den	end on the material, but also on further marks of quality and
	duct is a preparation of several substances, the resistance of
	nd has therefore to be checked prior to the application.
• Penetration time of glove material	na nas increjore to be checked prior to the application.
	by the manufacturer of the protective gloves and has to be
observed.	
· Eye/face protection	
Tightly sealed goggles	
SECTION 9: Physical and chemical proper	ties
9.1 Information on basic physical and chemical prop	perties
· General Information	
· Physical state	Solid
· Colour:	According to product specification
· Odour:	Odourless
· Odour threshold:	Not determined.

Undetermined.

Not determined.

Not determined.

Not determined.

Not applicable.

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Auto-ignition temperature:	Undetermined.
Decomposition temperature:	Not determined.
рН	Not applicable.
Viscosity:	
Kinematic viscosity	Not applicable.
Dynamic:	Not applicable.
Solubility	
water:	Insoluble.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not applicable.
Density and/or relative density	
Density:	Not determined.
Relative density	Not determined.
Vapour density	Not applicable.
Particle characteristics	SiO2: Diameter particle structure = $2.5 - 50$ nm (TEM)
	d50, number-based)
	Diameter agglomerate = $5 - 50 \text{ mm}$ (laser diffraction dr
	module, d50, volume based)
	68611-44-9 Silane, dichlorodimethyl-, reaction product
	with silica:
	set including amorphous nanoforms
	surface-treated nanoforms
	Shape: Spheroidal
	Structure: amorphous forms
	Crystallinity: amorphous nanoform
9.2 Other information	
Appearance:	
Form:	Pasty
Important information on protection of health a environment, and on safety.	nd
Ignition temperature:	Product is not selfigniting.
Ignition temperature: Explosive properties:	
Explosive properties:	<i>Product is not selfigniting.</i> <i>Product does not present an explosion hazard.</i>
Explosive properties: Change in condition Evaporation rate	Product does not present an explosion hazard.
Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes	Product does not present an explosion hazard.
Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives	Product does not present an explosion hazard. Not applicable. Void
Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes	Product does not present an explosion hazard. Not applicable.
Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols	Product does not present an explosion hazard. Not applicable. Void Void
Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases	Product does not present an explosion hazard. Not applicable. Void Void Void Void
Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure	Product does not present an explosion hazard. Not applicable. Void Void Void Void Void
Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases	Product does not present an explosion hazard. Not applicable. Void Void Void Void Void Void Void
Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids	Product does not present an explosion hazard. Not applicable. Void Void Void Void Void Void Void Void
Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures	Product does not present an explosion hazard. Not applicable. Void Void Void Void Void Void Void Void
Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids	Product does not present an explosion hazard. Not applicable. Void Void Void Void Void Void Void Void
Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids	Product does not present an explosion hazard. Not applicable. Void Void Void Void Void Void Void Void
Explosive properties:Change in conditionEvaporation rateInformation with regard to physical hazard classesExplosivesFlammable gasesAerosolsOxidising gasesGases under pressureFlammable liquidsFlammable solidsSelf-reactive substances and mixturesPyrophoric liquidsSelf-heating substances and mixtures	Product does not present an explosion hazard. Not applicable. Void Void Void Void Void Void Void Void
Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable ga	Product does not present an explosion hazard. Not applicable. Void Void Void Void Void Void Void Void
Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable ga in contact with water	Product does not present an explosion hazard. Not applicable. Void Void Void Void Void Void Void Void
Explosive properties:Change in conditionEvaporation rateInformation with regard to physical hazard classesExplosivesFlammable gasesAerosolsOxidising gasesGases under pressureFlammable solidsSelf-reactive substances and mixturesPyrophoric liquidsSelf-heating substances and mixturesSubstances and mixtures, which emit flammable gain contact with waterOxidising liquids	Product does not present an explosion hazard. Not applicable. Void
Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable ga in contact with water	Product does not present an explosion hazard. Not applicable. Void Void Void Void Void Void Void Void

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· Corrosive to metals · Desensitised explosives	Void Void	

# SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

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

• 10.3 Possibility of hazardous reactions No dangerous reactions known.

 $\cdot$  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 hazard classes as defined in Regulation (EC) No 1272/2008

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

· LD/LC50 values 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)

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)

2440-22-4 2-(2H-benzotriazol-2-yl)-p-cresol

Oral LD50 10,000 mg/kg (rat (f+m))

Inhalative LC50/4 h = 0.59 mg/l (rat (f+m))

· Respiratory or skin sensitisation May cause an allergic skin reaction.

• Additional toxicological information:

· Repeated dose toxicity No further relevant information available.

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

No further relevant information available.

· 11.2 Information on other hazards

• Endocrine disrupting properties

None of the ingredients is listed.

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<sup>· 10.2</sup> Chemical stability

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# 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)

- · 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
- The product does not contain substances with endocrine disrupting properties.
- · 12.7 Other adverse effects
- Additional ecological information:
- · General notes:
- Water hazard class 1 (German Regulation) (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.

## **SECTION 13: Disposal considerations**

· 13.1 Waste treatment methods

· Recommendation

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

• Uncleaned packaging:

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

## **SECTION 14:** Transport information

· 14.1 UN number or ID number · ADR, ADN, IMDG, IATA	not regulated	
· 14.2 UN proper shipping name · 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 Maritime transport in bulk according instruments	<b>g to IMO</b> Not applicable.	
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· UN "Model Regulation":

not regulated

## **SECTION 15: Regulatory information**

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

· Regulated explosives precursors

None of the ingredients is listed.

· Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

None of the ingredients is listed.

Reportable poisons

None of the ingredients is listed.

· 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.

## **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.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.
- H361f Suspected of damaging fertility.
- H373 May cause damage to organs through prolonged or repeated exposure.
- 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 acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

- ICAO: International Civil Aviation Organisation
- ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

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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)	
DNEL: Derived No-Effect Level (UK REACH)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
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 Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Imit 2: Serious and damage/eye irritation – Category 2	
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1	
Skin Sens. 12. Skin sensitisation – Category 1 Skin Sens. 1B: Skin sensitisation – Category 1B	
Carc. 2: Carcinogenicity – Category 2	
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 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	s, recommendations
or suggestions are made without any guarantee, representation or warranty, express or im	
Therefore, no warranty is made or to be implied that the information set out in this docum	
complete, and we accordingly exclude all liability in connection with the use of this informat	
referred to herein. All such risks are assumed by the purchaser/user. The information conta	
subject to change without notice. For the avoidance of doubt, however, nothing in this doe	
limits our liability for death or personal injury caused by our negligence or for fraudulent misr	epresentation.

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