

DENTA VISION Form & Model

Creation date	22nd November 2023	Version	1.0
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1. Product identifier**
 Substance / mixture: DENTA VISION Form & Model mixture
 UFI: 9000-X0N6-Y00G-TE06
 Other mixture names:
 UFI: 9000-X0N6-Y00G-TE06, REF. DV100B1 DENTA VISION Form & Model 1kg Beige
 UFI: 9000-X0N6-Y00G-TE06, REF. DV100B200 DENTA VISION Form & Model 200g Beige
 UFI: 9000-X0N6-Y00G-TE06, REF. DV100G1 DENTA VISION Form & Model 1kg Grey
 UFI: 9000-X0N6-Y00G-TE06, REF. DV100G200 DENTA VISION Form & Model 200g Beige

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

- Mixture's intended use**
 Resins (prepolymers). Acrylic resin for 3D printing dental models
- Main intended use**
 PC-ART-5 Modelling compounds
- The use descriptors**
 PW Widespread use by professional workers
- Mixture uses advised against**
 The product should not be used in ways other than those referred in Section 1.

1.3. Details of the supplier of the safety data sheet

- Supplier**
- | | |
|-----------------------------|---|
| Name or trade name | Everall7 Sp. z o.o. |
| Address | Augustówka 14, Warszawa , 02-981 Poland |
| Identification number (CRN) | 002028511 |
| VAT Reg No | PL5210124886 |
| Phone | +48 22 858 82 72 |
| E-mail | info@everall7.pl |
| Web address | everall7.pl |
- Competent person responsible for the safety data sheet**
- | | |
|--------|---------------------|
| Name | Everall7 Sp. z o.o. |
| E-mail | info@everall7.pl |

1.4. Emergency telephone number
 European emergency number: 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification of the mixture in accordance with Regulation (EC) No 1272/2008

- The mixture is classified as dangerous.
- Skin Sens. 1A, H317
 Aquatic Chronic 3, H412
- Full text of all classifications and hazard statements is given in the section 16.
- Most serious adverse effects on human health and the environment**
 May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.

2.2. Label elements
Hazard pictogram



Signal word
 Warning

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Hazardous substances

7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate
2-[[[(butylamino)carbonyl]oxy]ethyl acrylate

Hazard statements

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

Precautionary statements

P261 Avoid breathing dust.
P273 Avoid release to the environment.
P280 Wear protective gloves.
P321 Specific treatment (see additional first aid instructions on this label).
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 72869-86-4 EC: 276-957-5	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate	>52	Skin Sens. 1, H317	
CAS: 63225-53-6 EC: 264-036-0 Registration number: 01-2120751208-56-xxxx	2-[[[(butylamino)carbonyl]oxy]ethyl acrylate	<20	Skin Sens. 1A, H317 Acute Tox. 4, H332 Aquatic Chronic 2, H411	
Index: 015-203-00-X CAS: 75980-60-8 EC: 278-355-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	<3	Repr. 2, H361f (testes)	
Index: 022-006-00-2 CAS: 13463-67-7 EC: 236-675-5	titanium dioxide	0,4	Carc. 2, H351 (inhalation)	1, 2, 3
CAS: 128-37-0 EC: 204-881-4	2,6-Di-tert-butyl-p-cresol	<0,2	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	

Notes

- 1 Note V: If the substance is to be placed on the market as fibres (with diameter < 3 µm, length > 5 µm and aspect ratio ≥ 3:1) or particles of the substance fulfilling the WHO fibre criteria or as particles with modified surface chemistry, their hazardous properties must be evaluated in accordance with Title II of this Regulation, to assess whether a higher category (Carc. 1B or 1A) and/or additional routes of exposure (oral or dermal) should be applied.
- 2 Note W: It has been observed that the carcinogenic hazard of this substance arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung.

This note aims to describe the particular toxicity of the substance; it does not constitute a criterion for classification according to this Regulation.
- 3 Note 10: The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter ≤ 10 µm.

Full text of all classifications and hazard statements is given in the section 16.

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SECTION 4: First aid measures**4.1. Description of first aid measures**

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes.

If swallowed

Rinse out the mouth with clean water. In the event of issues, find medical help.

4.2. Most important symptoms and effects, both acute and delayed**If inhaled**

Not expected.

If on skin

May cause an allergic skin reaction.

If in eyes

Not expected.

If swallowed

Irritation, nausea.

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

Symptomatic treatment.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Prevent contact with skin and eyes.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

6.4. Reference to other sections

See the Section 7, 8 and 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent contact with skin and eyes. Contaminated work clothing should not be allowed out of the workplace. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Protect from sunlight.

Content	Packaging type	Material of package
1 kg	cartridge	HDPE
0,2 kg	cartridge	HDPE

Storage class 6,1D - Non-combustible toxic substances or substances with chronic effect
 Storage temperature min 5 °C, max 25 °C

The specific requirements or rules relating to the substance/mixture

Store in tightly closed containers in a cool, dry place intended for this purpose. Protect from sunlight. Keep out of reach of children.

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains no substances for which occupational exposure limits are set.

DNEL

titanium dioxide					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	170 µg/m ³	Chronic effects local	Toxicity test	ECHA
Consumers	Inhalation	28 µg/m ³	Chronic effects local	Toxicity test	ECHA

8.2. Exposure controls

Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

It is not needed.

Skin protection

Hand protection: Protective gloves resistant to the product. Contaminated skin should be washed thoroughly.

Respiratory protection

It is not needed.

Thermal hazard

Data not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	white, beige or gray depending on the product version
Odour	characteristic
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	data not available
Lower and upper explosion limit	data not available

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Flash point	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	data not available
Kinematic viscosity	data not available
Solubility in water	data not available
Partition coefficient n-octanol/water (log value)	not determined
Vapour pressure	data not available
Density and/or relative density	data not available
Relative vapour density	data not available
Particle characteristics	data not available
Form	liquid

9.2. Other information

not available

SECTION 10: Stability and reactivity

10.1. Reactivity

When used in the standard way, there is not any dangerous reaction with other substances.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

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

No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.

titanium dioxide								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀	OECD 420	5000 mg/kg bw		Mouse	F/M	Experimentally	ECHA
Oral	LD ₅₀	OECD 425	5000 mg/kg bw		Rat (Rattus norvegicus)	F	Experimentally	ECHA
Oral	LD ₅₀	OECD 420	5000 mg/kg bw		Rat (Rattus norvegicus)	F	Experimentally	ECHA
Inhalation	LC ₅₀	OECD 403	5.09 mg/l	4 hours	Rat (Rattus norvegicus)	F/M	Experimentally	ECHA
Inhalation	LC ₅₀		>6.82 mg/l	4 hours	Rat (Rattus norvegicus)	M	Experimentally	ECHA

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Skin corrosion/irritation

Based on available data the classification criteria are not met.

titanium dioxide						
Route of exposure	Result	Method	Exposure time	Species	Value determination	Source
Dermal	Not irritating	OECD 404	4 hours	Rabbit (New Zealand White)	Experimentally	ECHA

Serious eye damage/irritation

Based on available data the classification criteria are not met.

titanium dioxide						
Route of exposure	Result	Method	Exposure time	Species	Value determination	Source
Eye	Not irritating	OECD 405		Rabbit (New Zealand White)	Experimentally	ECHA

Respiratory or skin sensitisation

May cause an allergic skin reaction.

titanium dioxide							
Route of exposure	Result	Method	Exposure time	Species	Sex	Value determination	Source
Dermal	Not sensitizing	OECD 429		Mouse	F	Experimentally	ECHA
Inhalation	Not sensitizing			Mouse	F	Experimentally	ECHA

Germ cell mutagenicity

Based on available data the classification criteria are not met.

titanium dioxide							
Result	Method	Exposure time	Specific target organ	Species	Sex	Value determination	Source
No effect, Indeterminate	in vitro					Literary studies, Experimentally	ECHA
No effect	in vivo	7 days		Rat (Rattus norvegicus)	M	Literary studies, Experimentally	ECHA

Carcinogenicity

Based on available data the classification criteria are not met.

titanium dioxide									
Route of exposure	Parameter	Method	Value	Exposure time	Result	Species	Sex	Value determination	Source
Oral	NOEL		7500 mg/kg bw/day	103 weeks (7 days/week)	Not carcinogenic, Indeterminate	Mouse	F/M	Experimentally	ECHA

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titanium dioxide									
Route of exposure	Parameter	Method	Value	Exposure time	Result	Species	Sex	Value determination	Source
Oral	NOEL		2500 mg/kg bw/day	103 weeks (7 days/week)	Not carcinogenic, Indeterminate	Rat (Rattus norvegicus)	F/M	Experimentally	ECHA
Inhalation	NOEC		50.68 mg/m ³	24 months (6 hour/day, 5 days/week)	Not carcinogenic, Indeterminate	Rat (Rattus norvegicus)	F/M	Experimentally	ECHA
Inhalation	LOAEC		250 mg/m ³	24 months (6 hour/day, 5 days/week)	Not carcinogenic, Indeterminate	Rat (Rattus norvegicus)	F/M	Experimentally	ECHA
Inhalation (aerosols)	NOAEC	OECD 453	5 mg/m ³	24 months (6 hour/day, 5 days/week)	No carcinogenic effect	Rat (Rattus norvegicus)	F/M	Experimentally	ECHA

Reproductive toxicity

Based on available data the classification criteria are not met.

titanium dioxide									
Effect	Parameter	Method	Value	Exposure time	Result	Species	Sex	Value determination	Source
Effects on fertility	NOAEL	OECD 443	≥1000 mg/kg bw/day	14 days	No effect	Rat (Rattus norvegicus)	F/M	Experimentally	ECHA
Developmental toxicity	NOAL	OECD 414	1000 mg/kg bw/day	20 days (7 days/week)	No effect	Rat (Rattus norvegicus)	F/M	Experimentally	ECHA

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Repeated dose toxicity

titanium dioxide									
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	NOAEL	No effect	OECD 408	>1000 mg/kg bw/day	93 days (7 days/week)	Rat (Rattus norvegicus)	F/M	Experimentally	ECHA
Skin		No effect			36 weeks	Mouse	F	Literary studies, Experimentally	ECHA

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Aspiration hazard

Based on available data the classification criteria are not met.

11.2. Information on other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.

Acute toxicity

titanium dioxide						
Parameter	Value	Exposure time	Species	Environment	Value determination	Source
LC ₅₀	1 mg/l	72 hours	Fish (Oncorhynchus mykiss)	Fresh water	Experimentally	ECHA
LC ₅₀	870-1100 µg/l	14 days	Fish (Oncorhynchus mykiss)	Fresh water	Experimentally	ECHA
NOEC	870-1100 µg/l	14 days	Fish (Oncorhynchus mykiss)	Fresh water	Experimentally	ECHA
EC ₅₀	3.58-100 mg/l	72 hours	Invertebrates	Fresh water	Experimentally	ECHA
EC ₅₀	2.41-103.9 mg/l	48 hours	Invertebrates	Fresh water	Experimentally	ECHA
LC ₅₀	100 mg/l	48 hours	Invertebrates	Fresh water	Experimentally	ECHA
EC ₅₀	100 mg/l	72 hours	Algae and other aquatic plants	Fresh water	Experimentally	ECHA
EC ₁₀	2 mg/l	72 hours	Algae and other aquatic plants	Fresh water	Experimentally	ECHA
NOEC	100 mg/l	72 hours	Algae and other aquatic plants	Fresh water	Experimentally	ECHA
NOEC	1 mg/l	32 days	Algae and other aquatic plants	Fresh water	Experimentally	ECHA
EC ₅₀	1 g/l	3 hours	Microorganisms (Photobacterium phosphoreum)	Fresh water	Experimentally	ECHA
NOEC	1 g/l	3 hours	Microorganisms (Photobacterium phosphoreum)	Fresh water	Experimentally	ECHA
LOEC	1 g/l	3 hours	Microorganisms (Photobacterium phosphoreum)	Fresh water	Experimentally	ECHA

Chronic toxicity

titanium dioxide							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
NOEC	OECD 215	4-80 µg/l	28 days	Fish (Oncorhynchus mykiss)	Fresh water	Experimentally	ECHA

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titanium dioxide							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
NOEC		80-160 mg/kg	6 days	Fish (Oncorhynchus mykiss)	Fresh water	Experimentally	ECHA
NOEC		80-160 mg/kg	4 days	Fish (Oncorhynchus mykiss)	Fresh water	Experimentally	ECHA
LOEC		80-160 mg/l	6 days	Fish (Oncorhynchus mykiss)	Fresh water	Experimentally	ECHA
LOEC		80-160 mg/l	4 days	Fish (Oncorhynchus mykiss)	Fresh water	Experimentally	ECHA
NOEC		100 mg/l	28 days	Invertebrates	Fresh water	Experimentally	ECHA
NOEC		100-10000 µg/l	21 days	Invertebrates	Fresh water	Experimentally	ECHA
NOEC		1 mg/l	10 days	Invertebrates	Fresh water	Experimentally	ECHA
LOEC		5 mg/l	21 days	Invertebrates	Fresh water	Experimentally	ECHA

More information

Avoid release to the environment.

12.2. Persistence and degradability

Data not available.

Biodegradability

titanium dioxide						
Parameter	Value	Exposure time	Environment	Value determination	Result	Source
			Fresh water	Literary studies	Easily biodegradable	ECHA

12.3. Bioaccumulative potential

Data not available.

12.4. Mobility in soil

Data not available.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 13: Disposal considerations

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13.1. Waste treatment methods

Risk of environmental contamination, follow local waste disposal regulations. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

16 03 03 inorganic wastes containing hazardous substances *

Packaging waste type code

15 01 10 packaging containing residues of or contaminated by hazardous substances *

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information**14.1. UN number or ID number**

not subject to transport regulations

14.2. UN proper shipping name

not relevant

14.3. Transport hazard class(es)

not relevant

14.4. Packing group

not relevant

14.5. Environmental hazards

not relevant

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information**A list of standard risk phrases used in the safety data sheet**

H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H351	Suspected of causing cancer if inhaled.
H361f	Suspected of damaging fertility (causing atrophy of the testes).
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.
H412	Harmful to aquatic life with long lasting effects.

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Guidelines for safe handling used in the safety data sheet

P261	Avoid breathing dust.
P273	Avoid release to the environment.
P280	Wear protective gloves.
P321	Specific treatment (see additional first aid instructions on this label).
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC ₁₀	Concentration of a substance when it is affected 10% of the population
EC ₅₀	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
LOAEC	Lowest observed adverse effect concentration
log K _{ow}	Octanol-water partition coefficient
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Acute Tox.	Acute toxicity

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Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Carc.	Carcinogenicity
Repr.	Reproductive toxicity
Skin Sens.	Skin sensitization

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.
REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

More information

Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.
