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

1.1. Product identifier

HinriPrint gingiva

This substance/mixture contains components in nanoform

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

Use of the substance/preparation

Light-curing material for the manufacturing of dental gingival masks

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Dreve Dentamid GmbH
Max-Planck-Straße 31
DE-59423 Unna

Telephone no.	+49 2303 8807-0
Fax no.	+49 2303 8807-29
Information provided by / telephone	Department Research & Development: Fax: +49 2303 8807-562
E-mail address of person responsible for this SDS	sicherheitsdatenblatt@dreve.com

1.4. Emergency telephone number

Henkel Fire Department / 24h-Emergency-Contact-No.: +49 211 797-3350

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Skin Sens. 1A	H317
Aquatic Chronic 2	H411

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008
For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms

Signal word

Warning

Hazard statements

H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P391	Collect spillage.
P501.1	Dispose of contents/container to industrial incineration plant.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains Hydroxypropyl methacrylate; 2-Hydroxyethyl acrylate; Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide; Diethylene glycol dimethacrylate

2.3. Other hazards

No special hazards have to be mentioned.

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients

Isodecylmethacrylate

CAS No.	29964-84-9				
EINECS no.	249-978-2				
Registration no.	01-2119894925-17				
Concentration	>=	2,5	<	10	%
Classification (Regulation (EC) No. 1272/2008)					
	Aquatic Chronic 1	H410			

Hydroxypropyl methacrylate

CAS No.	27813-02-1				
EINECS no.	248-666-3				
Registration no.	01-2119490226-37				
Concentration	>=	1	<	10	%
Classification (Regulation (EC) No. 1272/2008)					
	Eye Irrit. 2	H319			
	Skin Sens. 1	H317			

Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

CAS No.	162881-26-7				
EINECS no.	423-340-5				
Registration no.	01-2119489401-38				
Concentration	>=	1	<	10	%
Classification (Regulation (EC) No. 1272/2008)					
	Skin Sens. 1A	H317			
	Aquatic Chronic 4	H413			

2-Hydroxyethyl acrylate

CAS No.	818-61-1				
EINECS no.	212-454-9				
Registration no.	01-2119459345-34				
Concentration	>=	0,2	<	1	%

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 3	H311
Skin Corr. 1B	H314
Skin Sens. 1	H317
Aquatic Acute 1	H400

Concentration limits (Regulation (EC) No. 1272/2008)

Skin Sens. 1	H317	>= 0,2	%

ATE dermal 1.000 mg/kg

Additional remarks:

CLP Regulation (EC) No 1272/2008, Annex VI, Note D

Diethylene glycol dimethacrylate

CAS No.	2358-84-1				
EINECS no.	219-099-9				
Registration no.	01-2120892085-48				
Concentration	>=	0,1	<	1	%

Classification (Regulation (EC) No. 1272/2008)

Skin Sens. 1B	H317

Further ingredients

Dichlorodimethylsilane, reaction products with silica

CAS No.	68611-44-9				
EINECS no.	271-893-4				
Registration no.	01-2119379499-16				
Concentration			<	1	%

Advice: [7]

Name of set of nanoform	Nanoagglomerate		
Particle size distribution	d50	2,5-50	nm
	Method		Transmission Electron Microscopy (TEM)
Shape and aspect ratio of particles	Spheroidal		
Shape and aspect ratio of particles	amorphous		

C.I. Pigment Red 178

CAS No.	3049-71-6				
EINECS no.	221-264-5				
Registration no.	01-2119969284-27				
Concentration			<	1	%

Advice: [7]

Classification (Regulation (EC) No. 1272/2008)

STOT RE 2	H373

Name of set of nanoform	Nano particles		
Particle size distribution	d10	5-50	nm
	Method		Transmission Electron Microscopy (TEM)
Particle size distribution	d50	10-100	nm
	Method		Transmission Electron Microscopy (TEM)
Particle size distribution	d90	100-200	nm
	Method		Transmission Electron Microscopy (TEM)

Shape and aspect ratio of particles	Spheres				
Specific surface	appr.	15	to	100	m²/g

Silicon dioxide, amorphe

CAS No.	7631-86-9				
EINECS no.	231-545-4				
Registration no.	01-211-379499-16				
Concentration		<	1	%	

Advice: [7]

Name of set of nanoform	Nano particles				
Particle size distribution	d10	7-15	nm		
Particle size distribution	d50	2-30	nm		
Particle size distribution	d90	10-35	nm		
	Method		Transmission Electron Microscopy (TEM)		
Shape and aspect ratio of particles	Spheroidal				
Specific surface	appr.	50	to	450	m²/g

Note

[7] Nanoforms

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated clothing immediately and dispose of safely. Adhere to personal protective measures when giving first aid

After inhalation

Remove the casualty into fresh air and keep him calm. In the event of symptoms take medical treatment.

After skin contact

After contact with skin, wash immediately with plenty of water and soap. Consult a doctor if skin irritation persists.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Take medical treatment.

After ingestion

Call in a physician immediately and show him the Safety Data Sheet. Rinse mouth thoroughly with water. Let plenty of water be drunk in small gulps. Do not induce vomiting.

Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

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

Until now no symptoms known so far.

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

Hints for the physician / hazards

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Recommended: alcohol resistant foam, CO2, powders, water spray/mist, Extinguishing measures to suit surroundings

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing apparatus. Wear full protective suit.

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations. Observe manufacturer's / distributor`s instructions.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away sources of ignition. Ensure adequate ventilation. Use breathing apparatus if exposed to vapours/dust/aerosol. Avoid contact with skin, eyes and clothing. Use personal protective clothing. Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Retain and dispose of contaminated wash water. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Pick up rest with suitable absorbent materials. Do not pick up with the help of saw-dust or other combustible substances. Clean contaminated floors and objects thoroughly, observing environmental regulations. Containers in which spilt substance has been collected must be adequately labelled. Dispose of as prescribed.

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid formation of

aerosols. Avoid impact, friction and electro-static loading; risk of ignition! Keep container tightly closed.

Advice on protection against fire and explosion

Keep away from sources of heat and ignition. No smoking. Take action to prevent static discharges. Avoid impact and friction. Use only explosion-proof equipment. Keep away from combustible material. Wear shoes with conductive soles.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in original packaging, tightly closed. Storage rooms must be properly ventilated. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Hints on storage assembly

Do not store together with foodstuffs. Do not store with strong oxidizing agents.

Further information on storage conditions

Keep under lock and key or accessible only to specialists or people who are authorized. Keep container tightly closed and in a well-ventilated place. Keep in a cool place

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Other information

Contains no substances with occupational exposure limit values.

Derived No/Minimal Effect Levels (DNEL/DMEL)

Isodecylmethacrylate

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	2,5	mg/m³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	5	mg/kg/d

Hydroxypropyl methacrylate

Reference substance	Hydroxypropyl methacrylate	
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Route of exposure	inhalative	
Concentration	14,7	mg/m³

	Hydroxypropyl methacrylate	
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Route of exposure	dermal	
Concentration	4,2	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	

Reference group	Consumer	
Route of exposure	dermal	
Concentration	2,5	mg/kg
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Route of exposure	inhalative	
Concentration	4,35	mg/m³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Route of exposure	oral	
Concentration	2,5	mg/kg

2-Hydroxyethyl acrylate

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	2,4	mg/m³

Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	21	mg/m³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	3	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	5,2	mg/m³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	1,5	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	

Concentration	1,5	mg/kg/d

Predicted No Effect Concentration (PNEC)

Isodecylmethacrylate

Type of value	PNEC	
Type	Freshwater	
Concentration	0,24	µg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,024	µg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	50	mg/kg
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	0,042	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	0,004	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0,008	mg/kg

Hydroxypropyl methacrylate

Reference substance	Hydroxypropyl methacrylate	
Type of value	PNEC	
Type	Freshwater	
Concentration	0,904	mg/l
	Hydroxypropyl methacrylate	
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	4,13	mg/kg
	Hydroxypropyl methacrylate	
Type of value	PNEC	
Type	Soil	
Concentration	0,295	mg/kg
	Hydroxypropyl methacrylate	
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	10	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,09	mg/l
Type of value	PNEC	
Type	Marine sediment	
Concentration	0,413	mg/kg

2-Hydroxyethyl acrylate

Type of value	PNEC	
Type	Freshwater	
Concentration	0,017	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,002	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	0,064	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	0,006	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0,003	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	10	mg/l

Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Type of value	PNEC	
Type	Freshwater	
Concentration	1	µg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	1	µg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	1	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	0,712	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	0,712	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	20	mg/kg

8.2. Exposure controls

General protective and hygiene measures

Do not smoke during work time. Hold emergency shower available. Hold eye wash fountain available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Take off immediately all

contaminated clothing. Do not eat or drink during work time. Storage of foodstuffs in work rooms is forbidden. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

Respiratory protection

Do not inhale vapours; Use suitable respiratory protective device in case of insufficient ventilation

Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.
The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.
Gloves should be replaced regularly and if there is any sign of damage to the glove material.
Hand protection must comply with EN 374.

Appropriate Material	Butyl rubber

Eye protection

Safety glasses

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid	
Colour	pink	
Odour	characteristic	

Melting point

Remarks	not determined	

Freezing point

Remarks	not determined	

Boiling point or initial boiling point and boiling range

Value	263	°C

Flammability

evaluation	not determined	

Upper and lower explosive limits

Remarks	not determined	

Flash point

Value	70	°C
Method	closed cup	

Auto-ignition temperature

Remarks	not determined	

Decomposition temperature

Remarks	not determined	

pH value

Remarks	not determined	

Viscosity

Remarks	not determined	

Solubility(ies)

Remarks not determined

Partition coefficient n-octanol/water (log value)

Remarks not determined

Vapour pressure

Remarks not determined

Density and/or relative density

Value	1,04		g/cm³
Temperature	20	°C	

Relative vapour density

Remarks not determined

9.2. Other information

Odour threshold

Remarks not determined

Evaporation rate (ether = 1) :

Remarks not determined

Solubility in water

Remarks virtually insoluble

Explosive properties

evaluation not determined

Oxidising properties

Remarks not determined

Other information

None known

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

No hazardous reactions known.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

Protect from heat and direct sunlight

10.5. Incompatible materials

None known

10.6. Hazardous decomposition products

Irritant gases/vapours

SECTION 11: Toxicological information

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

Acute oral toxicity

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

Acute oral toxicity (Components)

Isodecylmethacrylate

Species	rat (male)		
LD50	>	5000	mg/kg

Hydroxypropyl methacrylate

Species	rat		
LD50	>	5000	mg/kg
Method	OECD 401		

2-Hydroxyethyl acrylate

Species	rat (male)		
LD50		540	mg/kg

Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Species	rat		
LD50	>	2000	mg/kg
Method	OECD 401		

Diethylene glycol dimethacrylate

Species	rat		
LD50		3790	mg/kg

Acute dermal toxicity

ATE	>	10.000	mg/kg
Method	calculated value according to GHS (e.g see UN GHS)		

Acute dermal toxicity (Components)

Isodecylmethacrylate

Species	rabbit		
LD50	>	3000	mg/kg

Hydroxypropyl methacrylate

Species	rabbit		
LD50	>	5000	mg/kg

2-Hydroxyethyl acrylate

Species	rat		
LD50	>	1000	mg/kg
Method	OECD 402		

Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Species	rat		
LD50	>	2000	mg/kg
Method	OECD 402		

Acute inhalational toxicity

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

Skin corrosion/irritation

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

Skin corrosion/irritation (Components)

Isodecylmethacrylate

Species	rabbit
evaluation	slight irritant effect - does not require labelling
Source	ECHA

2-Hydroxyethyl acrylate

Species	rabbit
evaluation	corrosive

Serious eye damage/irritation

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

Serious eye damage/irritation (Components)

Hydroxypropyl methacrylate

Species	rabbit
evaluation	slightly irritant

2-Hydroxyethyl acrylate

Species	rabbit
evaluation	corrosive

Sensitization

evaluation	May cause sensitization by skin contact.
Remarks	The classification criteria are met.

Sensitization (Components)

Hydroxypropyl methacrylate

evaluation	sensitizing

2-Hydroxyethyl acrylate

Route of exposure	dermal
Species	mouse
evaluation	sensitizing

Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Route of exposure	dermal
Species	guinea pig
evaluation	sensitizing
Method	OECD 406

Diethylene glycol dimethacrylate

Route of exposure	dermal
Species	mouse
evaluation	sensitizing
Method	OECD 429

Subacute, subchronic, chronic toxicity

Remarks: not determined

Mutagenicity

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

Reproductive toxicity

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

Carcinogenicity

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

Specific Target Organ Toxicity (STOT)

Single exposure

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

Repeated exposure

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

Aspiration hazard

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

11.2. Information on other hazards

Endocrine disrupting properties with respect to humans

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

Experience in practice

Inhalation may lead to irritation of the respiratory tract.

Other information

No toxicological data are available.

SECTION 12: Ecological information

12.1. Toxicity

General information

not determined

Fish toxicity (Components)

Isodecylmethacrylate

Species	golden orfe (Leuciscus idus)		
LC50	470		mg/l
Duration of exposure	48	h	
Source	ECHA		

Hydroxypropyl methacrylate

LC50	> 100		mg/l
Duration of exposure	96	h	

2-Hydroxyethyl acrylate

Species	Fathead minnow (Pimephales promelas)		
LC50	4,8		mg/l
Duration of exposure	96	h	

Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Species	zebra fish (Brachydanio rerio)		
LC50	> 90		µg/l
Duration of exposure	96	h	
Method	OECD 203		

Diethylene glycol dimethacrylate

LC50	48,787		mg/l
Duration of exposure	96	h	
Method	QSAR		
Source	ECHA		

Diethylene glycol dimethacrylate

NOEC	4,353		mg/l
Duration of exposure	60	d	
Method	QSAR		
Source	ECHA		

Daphnia toxicity (Components)

Isodecylmethacrylate

Species	Daphnia magna		
NOEC	54,2		µg/l
Duration of exposure	21	d	
Method	OECD 211		

Hydroxypropyl methacrylate

Species	Daphnia magna		
EC50	> 143		mg/l
Duration of exposure	48	h	

Hydroxypropyl methacrylate

Species	Daphnia magna			
NOEC		45,2		mg/l
Duration of exposure		21	d	

2-Hydroxyethyl acrylate

Species	Daphnia magna			
EC50		9,3		mg/l
Duration of exposure		48	h	
Method	OECD 202			

2-Hydroxyethyl acrylate

Species	Daphnia magna			
NOEC		0,86		mg/l
Duration of exposure		21	d	
Method	OECD 211			

Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Species	Daphnia magna			
EC50	>	1,175		µg/l
Duration of exposure		48	h	
Method	OECD 202			

Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Species	Daphnia magna			
NOEC	>=	8,1		µg/l
Duration of exposure		21	d	
Method	OECD 211			

Diethylene glycol dimethacrylate

LC50		38,331		mg/l
Duration of exposure		48	h	
Method	QSAR			
Source	ECHA			

Diethylene glycol dimethacrylate

NOEC		3,748		mg/l
Duration of exposure		21	d	
Method	QSAR			
Source	ECHA			

Algae toxicity (Components)

Isodecylmethacrylate

Species	Desmodesmus subspicatus			
EC50	>	16,9		µg/l
Duration of exposure		72	h	
Method	OECD 201			

Hydroxypropyl methacrylate

EC50	>	97,2		mg/l
Duration of exposure		72	h	

2-Hydroxyethyl acrylate

Species	Pseudokirchneriella subcapitata			
EC50		6		mg/l
Duration of exposure		72	h	
Method	OECD 201			

Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Species	Scenedesmus subspicatus			
EC50	>	260		µg/l
Duration of exposure		72	h	
Method	OECD 201			

Diethylene glycol dimethacrylate

EC50	0,416		mg/l
Duration of exposure	96	h	
Source	ECHA		

Bacteria toxicity (Components)

Isodecylmethacrylate

EC0	> 500		mg/l
Method	OECD 209		

2-Hydroxyethyl acrylate

Species	activated sludge		
EC10	> 100		mg/l
Duration of exposure	72	h	

Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Species	activated sludge		
EC50	> 100		mg/l
Duration of exposure	3	h	
Method	OECD 209		

Diethylene glycol dimethacrylate

IC50	1280		mg/l
Duration of exposure	48	h	
Source	ECHA		

12.2. Persistence and degradability

General information

not determined

Biodegradability (Components)

Isodecylmethacrylate

evaluation	Readily biodegradable (according to OECD criteria)

Hydroxypropyl methacrylate

Value	> 80		%
Duration of test	10	d	
evaluation	Readily biodegradable (according to OECD criteria)		
Method	OECD 301 E		

2-Hydroxyethyl acrylate

Value	80		%
Duration of test	28	d	
evaluation	Readily biodegradable (according to OECD criteria)		
Method	OECD 301B / ISO 9439 / EEC 84/449 C5		

Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Value	1		%
Duration of test	29	d	
evaluation	not readily degradable		
Method	OECD 301 B		

Ready degradability (Components)

Diethylene glycol dimethacrylate

Source	ECHA

12.3. Bioaccumulative potential

General information

not determined

Partition coefficient n-octanol/water (log value)

Remarks	not determined

Octanol/water partition coefficient (log Pow) (Components)

Hydroxypropyl methacrylate

log Pow	0,97	
Temperature	20	°C

2-Hydroxyethyl acrylate

log Pow	-0,17	
Temperature	25	°C

Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

log Pow	5,8	

Diethylene glycol dimethacrylate

log Pow	1,93	
Temperature	25	°C
Source	ECHA	

12.4. Mobility in soil

General information

not determined

12.5. Results of PBT and vPvB assessment

General information

not determined

Results of PBT and vPvB assessment

The product contains no PBT substances
The product contains no vPvB substances.

12.6 Endocrine disrupting properties

Endocrine disrupting properties with respect to the envrionment

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

General information

not determined

General information / ecology

Do not allow to enter soil, waterways or waste water canal. Avoid release into the atmosphere.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

Must not be disposed together with household garbage.
Dispose of waste according to applicable legislation.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off as product waste.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number or ID number	3082	3082	3082
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isodecylmethacrylate, 2-Hydroxyethyl acrylate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isodecylmethacrylate, 2-Hydroxyethyl acrylate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isodecylmethacrylate, 2-Hydroxyethyl acrylate)
14.3. Transport hazard class(es)	9	9	9
Label			
14.4. Packing group	III	III	III
Remarks	The product is not subject to any other provisions of ADR provided packaging of not more than 5 l / 5 kg	The product can be transported in accordance with IMDG Code paragraph 2.10.2.7, provided packaging not more than 5 l / 5 kg.	The product is not subject to any other provisions of IATA provided packaging of not more than 5 l / 5 kg (A197)
Limited Quantity	5 l	5 l	
Transport category	3		
14.5. Environmental hazards	-		
Tunnel restriction code	-		

SECTION 15: Regulatory information

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

Restriction according to annex XVII to regulation (EU) No 1907/2006

The product is subject to restrictions according to Annex XVII Regulation (EU) No. 1907/2006: Entry No. 3

Other information

All components are contained in the TSCA inventory or exempted.

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification (Regulation (EC) No. 1272/2008)

Skin Sens. 1A	H317	Calculation method
Aquatic Chronic 2	H411	Calculation method

Hazard statements listed in Chapter 2/3

H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
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.

CLP categories listed in Chapter 2/3

Acute Tox. 3	Acute toxicity, Category 3
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Aquatic Chronic 4	Hazardous to the aquatic environment, chronic, Category 4
Eye Irrit. 2	Eye irritation, Category 2
Skin Corr. 1B	Skin corrosion, Category 1B
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1A	Skin sensitization, Category 1A
Skin Sens. 1B	Skin sensitization, Category 1B

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.