

Trade name: FotoDent tray2

Substance number: S0016

Version: 1 / GB

Date revised: 22.05.2023

Replaces Version: - / GB

Print date: 22.05.2023

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

1.1. Product identifier

FotoDent tray2

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

Use of the substance/preparation

Light curing material for production of dental impression tray

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Dreve Dentamid GmbH

Max-Planck-Straße 31

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

sicherheitsdatenblatt@dreve.com

for this SDS

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)

Eye Dam. 1 H318

Skin Sens. 1A H317

Aquatic Chronic 3 H412

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

Danger



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Hazard statements

H318	Causes serious eye damage.
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.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor.
P501.1	Dispose of contents/container to industrial incineration plant.

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

contains	2-Propenoic acid, reaction products with pentaerythritol; Tetramethylene dimethacrylate; Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide
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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****Bisphenol A, ethoxylated, dimethacrylate**

CAS No.	41637-38-1			
EINECS no.	609-946-4			
Registration no.	01-2119980659-17			
Concentration	>= 50			%
Classification (Regulation (EC) No. 1272/2008)	Aquatic Chronic 4	H413		

Tetramethylene dimethacrylate

CAS No.	2082-81-7			
EINECS no.	218-218-1			
Registration no.	01-2119967415-30			
Concentration	>= 1	< 10		%
Classification (Regulation (EC) No. 1272/2008)	Skin Sens. 1B	H317		

2-Propenoic acid, reaction products with pentaerythritol

CAS No.	1245638-61-2			
EINECS no.	629-850-6			
Registration no.	01-2119490003-49			
Concentration	>= 3	< 10		%
Classification (Regulation (EC) No. 1272/2008)	Acute Tox. 4	H302		
	Skin Irrit. 2	H315		



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Eye Dam. 1	H318
Skin Sens. 1	H317
Aquatic Chronic 2	H411

ATE	oral	540	mg/kg
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	

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

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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



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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)**Tetramethylene dimethacrylate**

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	14,5	mg/m ³
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	4,2	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	4,3	mg/m ³
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	2,5	mg/kg
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	2,5	mg/kg



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Bisphenol A, ethoxylated, dimethacrylate

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	3,52	mg/m ³

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	2	mg/kg

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	0,87	mg/m ³

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	mg/kg

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	0,5	mg/kg

Predicted No Effect Concentration (PNEC)**2-Propenoic acid, reaction products with pentaerythritol**

Type of value	PNEC	
Type	Freshwater	
Concentration	0,0032	mg/l

Type of value	PNEC	
Type	Saltwater	
Concentration	0,0003	mg/l

Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	0,032	mg/l

Type of value	PNEC	
Type	Freshwater sediment	
Concentration	0,151	mg/kg

Type of value	PNEC	
Type	Marine sediment	



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Concentration	0,0151	mg/kg
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Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	10	mg/l

Type of value	PNEC	
Type	Soil	
Concentration	0,0283	mg/kg

Tetramethylene dimethacrylate

Type of value	PNEC	
Type	Freshwater	
Concentration	0,043	mg/l

Type of value	PNEC	
Type	Saltwater	
Concentration	0,004	mg/l

Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	0,098	mg/l

Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	2	mg/l

Type of value	PNEC	
Type	Freshwater sediment	
Concentration	3,12	mg/kg

Type of value	PNEC	
Type	Marine sediment	
Concentration	0,312	mg/kg

Type of value	PNEC	
Type	Soil	
Concentration	0,573	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.



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Hand protection must comply with EN 374.
Appropriate Material nitrile

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	Various, depending on coloration		
Odour	characteristic		
Melting point			
Remarks	not determined		
Freezing point			
Remarks	not determined		
Boiling point or initial boiling point and boiling range			
Value	211		°C
Flammability			
evaluation	not determined		
Upper and lower explosive limits			
Remarks	not determined		
Flash point			
Value	> 100		°C
Method	closed cup		
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	1,09		g/cm ³
Temperature	20	°C	
Relative vapour density			
Remarks	not determined		



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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**

ATE	>	10.000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)		

Acute oral toxicity (Components)**2-Propenoic acid, reaction products with pentaerythritol**

Species	rat		
LD50		540	mg/kg
Method	OECD 401		

Tetramethylene dimethacrylate

Species	rat		
LD50		10066	mg/kg



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Method OECD 401

Bisphenol A, ethoxylated, dimethacrylateSpecies rat
LD50 > 2000 mg/kg**Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide**Species rat
LD50 > 2000 mg/kg
Method OECD 401**Acute dermal toxicity**

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

Acute dermal toxicity (Components)**2-Propenoic acid, reaction products with pentaerythritol**Species rabbit
LD50 > 2000 mg/kg
Method OECD 402**Bisphenol A, ethoxylated, dimethacrylate**Species rat
LD50 > 2000 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)**2-Propenoic acid, reaction products with pentaerythritol**Species rabbit
evaluation irritant
Method OECD 404**Serious eye damage/irritation**evaluation corrosive
Remarks The classification criteria are met.**Serious eye damage/irritation (Components)****2-Propenoic acid, reaction products with pentaerythritol**Species rabbit
evaluation corrosive
Method OECD 405**Sensitization**evaluation May cause sensitization by skin contact.
Remarks The classification criteria are met.**Sensitization (Components)****2-Propenoic acid, reaction products with pentaerythritol**Species guinea pig
evaluation non-sensitizing
Method OECD 406**2-Propenoic acid, reaction products with pentaerythritol**

Species Human



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evaluation	Possible sensitization potential with human beings.
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Tetramethylene dimethacrylate

Route of exposure	dermal
Species	mouse
evaluation	sensitizing
Method	OECD 429

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

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

Subacute, subchronic, chronic toxicity

Remarks	not determined
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Mutagenicity

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

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

Remarks	Based on available data, the classification criteria are not met.
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Specific Target Organ Toxicity (STOT)**Single exposure**

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

Remarks	Based on available data, the classification criteria are not met.
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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)**2-Propenoic acid, reaction products with pentaerythritol**

Species	carp (Cyprinus carpio)		
LC50	3,2		mg/l
Duration of exposure	96	h	
Method	OECD 203		



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Tetramethylene dimethacrylate

Species	golden orfe (<i>Leuciscus idus</i>)	
LC50	32,5	mg/l
Duration of exposure	48	h
Method	DIN 38412 / Part 15	
Remarks	Test conducted with a similar formulation.	

Bisphenol A, ethoxylated, dimethacrylate

Species	rainbow trout (<i>Oncorhynchus mykiss</i>)	
LC50	> 100	mg/l
Remarks	Test conducted with a similar formulation.	

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

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

Daphnia toxicity (Components)**2-Propenoic acid, reaction products with pentaerythritol**

Species	Daphnia magna	
EC50	13	mg/l
Duration of exposure	48	h
Method	OECD 202	

Tetramethylene dimethacrylate

Species	Daphnia magna	
EC10	7,51	mg/l
Duration of exposure	21	d
Method	OECD 211	

Bisphenol A, ethoxylated, dimethacrylate

Species	Daphnia magna	
EC50	> 100	mg/l
Duration of exposure	48	h
Remarks	Test conducted with a similar formulation.	

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

Species	Daphnia magna	
EC50	> 1175	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	

Algae toxicity (Components)**2-Propenoic acid, reaction products with pentaerythritol**

Species	Pseudokirchneriella subcapitata	
EL50	33	mg/l
Duration of exposure	96	h
Method	OECD 201	

Tetramethylene dimethacrylate

Species	Scenedesmus subspicatus	
EC50	9,79	mg/l
Duration of exposure	72	h
Method	OECD 201	

Bisphenol A, ethoxylated, dimethacrylate



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Species	Pseudokirchneriella subcapitata	
EC50	> 100	mg/l
Duration of exposure	72	h
Method	OECD 201	
Remarks	Test conducted with a similar formulation.	

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

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

Bacteria toxicity (Components)**2-Propenoic acid, reaction products with pentaerythritol**

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

Tetramethylene dimethacrylate

Species	activated sludge	
NOEC	20	mg/l
Duration of exposure	28	d

Bisphenol A, ethoxylated, dimethacrylate

Species	activated sludge	
NOEC	14,3	mg/l
Duration of exposure	28	d
Remarks	Test conducted with a similar formulation.	

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

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

12.2. Persistence and degradability**General information**

not determined

Biodegradability (Components)**2-Propenoic acid, reaction products with pentaerythritol**

Value	6	to	14	%
Duration of test evaluation	28	d		
	not readily degradable			

Tetramethylene dimethacrylate

Value	84	%
Duration of test evaluation	28	d
	Readily biodegradable (according to OECD criteria)	

Bisphenol A, ethoxylated, dimethacrylate

Value	24	%
Duration of test evaluation	28	d
	readily degradable	
Remarks	Test conducted with a similar formulation.	

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

Value	1	%
Duration of test evaluation	28	d
	not degradable	

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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)

2-Propenoic acid, reaction products with pentaerythritol

log Pow 3,11

Tetramethylene dimethacrylate

log Pow 3,1
Temperature 20 °C

Bisphenol A, ethoxylated, dimethacrylate

log Pow 4,39

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

log Pow 5,8

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 environment

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.



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SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number or ID number	The product does not constitute a hazardous substance in land transport.	The product does not constitute a hazardous substance in sea transport.	The product does not constitute a hazardous substance in air transport.
14.2. UN proper shipping name	-	-	-
14.3. Transport hazard class(es)		-	-
Label			
14.4. Packing group		-	-

SECTION 15: Regulatory information**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)

Eye Dam. 1	H318	Calculation method
Skin Sens. 1A	H317	Calculation method
Aquatic Chronic 3	H412	Calculation method

Hazard statements listed in Chapter 2/3

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful 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. 4	Acute toxicity, Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Aquatic Chronic 4	Hazardous to the aquatic environment, chronic, Category 4
Eye Dam. 1	Serious eye damage, Category 1
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1A	Skin sensitization, Category 1A



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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.