

Trade name: FotoDent insulant

Substance number: 12680

Version: 1 / GB

Date revised: 26.07.2023

Replaces Version: - / GB

Print date: 26.07.2023

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

1.1. Product identifier

FotoDent insulant

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

Use of the substance/preparation

Insulating agent for plastic models

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
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)

Eye Irrit. 2 H319

Skin Sens. 1A H317

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

Trade name: FotoDent insulant

Substance number: 12680

Version: 1 / GB

Date revised: 26.07.2023

Replaces Version: - / GB

Print date: 26.07.2023

H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264.1 Wash hands thoroughly after handling.
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.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
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-Methyl-2H-isothiazol-3-one

3.3. 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****2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate**

CAS No.	9014-85-1				
EINECS no.	500-022-5				
Concentration	>= 1	< 3			%
Classification (Regulation (EC) No. 1272/2008)					
	Skin Irrit. 2	H315			
	Eye Dam. 1	H318			
	STOT SE 3	H335			

2-Methyl-2H-isothiazol-3-one

CAS No.	2682-20-4				
EINECS no.	220-239-6				
Registration no.	01-2120764690-50				
Concentration	>= 0,0015	< 0,01			%
Classification (Regulation (EC) No. 1272/2008)					
	Acute Tox. 3	H301			
	Eye Dam. 1	H318			
	Aquatic Acute 1	H400			
	Aquatic Chronic 1	H410			
	Skin Sens. 1A	H317			
	Acute Tox. 3	H311			
	Skin Corr. 1B	H314			
	Acute Tox. 2	H330			

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

Aquatic Acute 1	H400	M = 10	
Skin Sens. 1A	H317	>= 0,0015	%

Trade name: FotoDent insulant

Substance number: 12680

Version: 1 / GB

Date revised: 26.07.2023

Replaces Version: - / GB

Print date: 26.07.2023

Aquatic Chronic
1

M = 1

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of persistent symptoms consult doctor.

After inhalation

Ensure supply of fresh air. In the event of symptoms take medical treatment.

After skin contact

In case of contact with skin wash off with warm water. Consult a doctor if skin irritation persists.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). In case of irritation consult an oculist.

After ingestion

Do not induce vomiting. Summon a doctor immediately.

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

5.3. Advice for firefighters

Special protective equipment for fire-fighting

In case of combustion use a suitable breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing.

6.2. Environmental precautions

Do not allow to enter drains or waterways.

Trade name: FotoDent insulant

Substance number: 12680

Version: 1 / GB

Date revised: 26.07.2023

Replaces Version: - / GB

Print date: 26.07.2023

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material. Clean contaminated floors and objects thoroughly, observing environmental regulations. 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).

Advice on protection against fire and explosion

No special measures required.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Store product in closed containers.

Hints on storage assembly

Do not store together with foodstuffs.

Further information on storage conditions

Keep container tightly closed and dry.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Other information**

Contains no substances with occupational exposure limit values.

8.2. Exposure controls**General protective and hygiene measures**

Observe the usual precautions for handling chemicals.

Respiratory protection

Not necessary, but do not inhale vapours.

Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

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 nitrile

Eye protection

Safety glasses

Body protection

Clothing as usual in the chemical industry.

Trade name: FotoDent insulant

Substance number: 12680

Version: 1 / GB

Date revised: 26.07.2023

Replaces Version: - / GB

Print date: 26.07.2023

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	whitish
Odour	characteristic
Melting point	
Remarks	not determined
Freezing point	
Remarks	not determined
Boiling point or initial boiling point and boiling range	
Value	100 °C
Flammability	
evaluation	Not applicable
Upper and lower explosive limits	
Remarks	not determined
Flash point	
Remarks	Not applicable
Ignition temperature	
Remarks	not determined
Decomposition temperature	
Remarks	No decomposition if used as prescribed.
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	
Value	23 hPa
Temperature	20 °C
Density and/or relative density	
Value	1,0 g/cm ³
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	

Trade name: FotoDent insulant

Substance number: 12680

Version: 1 / GB

Date revised: 26.07.2023

Replaces Version: - / GB

Print date: 26.07.2023

Remarks	miscible
Explosive properties	
evaluation	no
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

No hazardous reactions known.

10.5. Incompatible materials

None known

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)

2-Methyl-2H-isothiazol-3-one

Species	rat (male)		
LD50	232	249	mg/kg

2-Methyl-2H-isothiazol-3-one

Species	rat (female)		
LD50	120		mg/kg

2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate

Species	Rats (male/female)		
LD50	> 2000		mg/kg
Remarks	Test conducted with a similar formulation.		

Acute dermal toxicity

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

Acute dermal toxicity (Components)

2-Methyl-2H-isothiazol-3-one

Species	rat		
LD50	242		mg/kg
Method	OECD 402		

Trade name: FotoDent insulant

Substance number: 12680

Version: 1 / GB

Date revised: 26.07.2023

Replaces Version: - / GB

Print date: 26.07.2023

2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate

Species	Rats (male/female)	
LD50	> 2000	mg/kg
Remarks	Test conducted with a similar formulation.	

Acute inhalational toxicity

Remarks	Based on available data, the classification criteria are not met.
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Acute inhalative toxicity (Components)**2-Methyl-2H-isothiazol-3-one**

Species	rat	
LC50	0,34	mg/m ³
Duration of exposure	4	h
Administration/Form	Dust/Mist	
Method	OECD 403	

2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate

Species	Rats (male/female)	
LC50	> 20	mg/l
Duration of exposure	1	h
Remarks	Test conducted with a similar formulation.	

Skin corrosion/irritation

Remarks	Based on available data, the classification criteria are not met.
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Skin corrosion/irritation (Components)**2-Methyl-2H-isothiazol-3-one**

Species	rabbit
evaluation	corrosive
Method	OECD 404

Serious eye damage/irritation

evaluation	irritant
Remarks	The classification criteria are met.

Serious eye damage/irritation (Components)**2-Methyl-2H-isothiazol-3-one**

Species	rabbit
evaluation	corrosive

2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate

Species	rabbit
evaluation	corrosive
Remarks	Test conducted with a similar formulation.

Sensitization

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

Sensitization (Components)**2-Methyl-2H-isothiazol-3-one**

Species	mouse
evaluation	sensitizing
Method	OECD 406

2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate

Remarks	Possible sensitization potential with human beings.
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Subacute, subchronic, chronic toxicity

Remarks	not determined
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Mutagenicity

Trade name: FotoDent insulant

Substance number: 12680

Version: 1 / GB

Date revised: 26.07.2023

Replaces Version: - / GB

Print date: 26.07.2023

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.

Specific Target Organ Toxicity (STOT) (Components)**2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate****Single exposure**

evaluation May cause respiratory irritation.

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.

Other information

No toxicological data are available.

SECTION 12: Ecological information

12.1. Toxicity**General information**

not determined

Fish toxicity (Components)**2-Methyl-2H-isothiazol-3-one**

Species	rainbow trout (Oncorhynchus mykiss)	
LC50	4,77	mg/l
Duration of exposure	96	h
Method	OECD 203	

2-Methyl-2H-isothiazol-3-one

Species	rainbow trout (Oncorhynchus mykiss)	
NOEC	4,93	mg/l

2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate

Species	carp (Cyprinus carpio)	
LC50	42	mg/l
Duration of exposure	96	h
Method	OECD 203	

Daphnia toxicity (Components)**2-Methyl-2H-isothiazol-3-one**

Species	Daphnia magna	
LC50	0,934	mg/l

Trade name: FotoDent insulant

Substance number: 12680

Version: 1 / GB

Date revised: 26.07.2023

Replaces Version: - / GB

Print date: 26.07.2023

Duration of exposure 48 h
Method OECD 202

2-Methyl-2H-isothiazol-3-one

Species Daphnia magna
NOEC 0,044 mg/l
Duration of exposure 21 d
Method OECD 211

2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate

Species Daphnia magna
EC50 88 mg/l
Duration of exposure 48 h
Method OECD 202

Algae toxicity (Components)**2-Methyl-2H-isothiazol-3-one**

Species Pseudokirchneriella subcapitata
EC50 0,103 mg/l
Duration of exposure 72 h
Method OECD 201

2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate

Species Pseudokirchneriella subcapitata
EC50 82 mg/l
Duration of exposure 72 h
Method OECD 201

Bacteria toxicity (Components)**2-Methyl-2H-isothiazol-3-one**

Species activated sludge
EC50 41 mg/l
Duration of exposure 3 h
Method OECD 209

2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate

Species activated sludge
EC50 appr. 680 mg/l
Duration of exposure 30 min
Method OECD 209
Remarks Test conducted with a similar formulation.

12.2. Persistence and degradability**General information**

not determined

Biodegradability (Components)**2-Methyl-2H-isothiazol-3-one**

Value 50 %
Duration of test 29 d
evaluation not readily degradable

2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate

Value < 10 %
Duration of test 60 d
evaluation not readily degradable
Remarks Test conducted with a similar formulation.

12.3. Bioaccumulative potential**General information**

Trade name: FotoDent insulant

Substance number: 12680

Version: 1 / GB

Date revised: 26.07.2023

Replaces Version: - / GB

Print date: 26.07.2023

not determined

Partition coefficient n-octanol/water (log value)

Remarks not determined

Octanol/water partition coefficient (log Pow) (Components)**2-Methyl-2H-isothiazol-3-one**

pOW <= 0,32

2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate

log Pow 1,8 to 2,5

Temperature 21 °C

Method 92/69/EEC, A.8

Bioconcentration factor (BCF) (Components)**2-Methyl-2H-isothiazol-3-one**

BCF 3,16

Source calculated value

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 discharge product unmonitored into the environment.

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 in agreement with the regional waste disposal company.



Trade name: FotoDent insulant

Substance number: 12680

Version: 1 / GB

Date revised: 26.07.2023

Replaces Version: - / GB

Print date: 26.07.2023

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 Irrit. 2	H319	Calculation method
Skin Sens. 1A	H317	Calculation method

Hazard statements listed in Chapter 2/3

H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

CLP categories listed in Chapter 2/3

Acute Tox. 2	Acute toxicity, Category 2
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
Eye Dam. 1	Serious eye damage, Category 1



Trade name: FotoDent insulant

Substance number: 12680

Version: 1 / GB

Date revised: 26.07.2023

Replaces Version: - / GB

Print date: 26.07.2023

Eye Irrit. 2

Skin Corr. 1B

Skin Irrit. 2

Skin Sens. 1A

STOT SE 3

Eye irritation, Category 2

Skin corrosion, Category 1B

Skin irritation, Category 2

Skin sensitization, Category 1A

Specific target organ toxicity - single exposure, Category 3

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.