

Trade name: Fotogel

Substance number: 72004

Version: 1 / GB

Date revised: 12.05.2023

Replaces Version: - / GB

Print date: 12.05.2023

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

1.1. Product identifier

Fotogel

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

Use of the substance/preparation

Hydrocolloid gel on the basis of agar-agar for the photopolymerization

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Dreve Otoplastik GmbH

Max-Planck-Straße 31

59423 Unna

Telephone no.

+49 2303 8807-0

Fax no.

+49 2303 8807-29

Information provided

Department Research & Development: Fax: +49 2303 8807-562

by / telephone

E-mail address of

sicherheitsdatenblatt@dreve.de

person responsible

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)

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

H317

May cause an allergic skin reaction.



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Precautionary statements

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
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

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****Chemical characterization**

Hydrocolloid gel on the basis of agar-agar/water/glycerol

Hazardous ingredients**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 %
Aquatic Chronic 1		M = 1

Further ingredients**Glycerol**

CAS No.	56-81-5
EINECS no.	200-289-5
Registration no.	01-2119471987-18
Concentration	>= 50 %
Advice: [3]	

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Note

[3] Substance with occupational exposure limits

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

No special measures required

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 - aspiration hazard. 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**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**

In case of combustion use a suitable breathing apparatus.

Other information

Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

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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.

6.3. Methods and material for containment and cleaning up

Pick up mechanically. Clean contaminated floors and objects thoroughly, observing environmental regulations.

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

Observe the usual precautions for handling chemicals. For personal protection see Section 8.

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

Exposure limit values

Glycerol

List TRGS 900

Type E

Short term exposure limit 200 mg/m³

Maximum limit value: 2(l) Pregnancy group: Y; Status: 05/16; Remarks: DGF

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. Do not eat, drink or smoke during work time.

Wash hands before breaks and after work. Avoid contact with eyes.



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Respiratory protection

Not necessary.

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 nitrile

Eye protection

Not necessary.

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	Gel	
Colour	clear, transparent	
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 determined	
Upper and lower explosive limits		
Remarks	not determined	
Flash point		
Value	160	°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	



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Vapour pressure

Remarks not determined

Density and/or relative densityValue 1,17 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 soluble

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

No hazardous reactions known.

10.5. Incompatible materials

None known

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**ATE 18,0573 mg/kg
Method calculated value (Regulation (EC) No. 1272/2008)

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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

Glycerol

Species	rat		
LD50	12,6		g/kg

Acute dermal toxicity

ATE	14,3312		mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)		

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

Species	rat		
LD50	242		mg/kg
Method	OECD 402		

Glycerol

Species	rabbit		
LD50	> 10		g/kg

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		

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

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

Species	rabbit		
evaluation	corrosive		

Sensitization

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

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



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Species	mouse
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.

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

Glycerol

Species	rainbow trout (Oncorhynchus mykiss)	
LC50	> 50000	mg/l
Duration of exposure	96	h

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

Species	Daphnia magna
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LC50	0,934		mg/l
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		

Glycerol

Species	Daphnia magna		
EC50	> 10		g/l
Duration of exposure	24	h	

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		

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

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

Glycerol

Species	Pseudomonas putida		
EC50	> 10		g/l
Duration of exposure	16	h	

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		

Ready degradability (Components)**Glycerol**

Value	94		%
Duration of test	24	h	

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

pOW <= 0,32

Glycerol



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log Pow -2,6

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 assessmentThe 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 in agreement with the regional waste disposal company.

SECTION 14: Transport information



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	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

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

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

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.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
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
Skin Corr. 1B	Skin corrosion, Category 1B
Skin Sens. 1A	Skin sensitization, Category 1A



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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.