

Trade name: Isolat / Isolat film

Substance number: 12600

Version: 1 / GB

Date revised: 23.06.2023

Replaces Version: - / GB

Print date: 23.06.2023

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

1.1. Product identifier

Isolat / Isolat film

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

Use of the substance/preparation

Insulating agent on the basis of alginate

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

E-mail address of person responsible sicherheitsdatenblatt@dreve.de

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****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 | >= 1 < 10 % |
| Advice: [3] | |

Note

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[3] Substance with occupational exposure limits

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.

6.3. Methods and material for containment and cleaning up

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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

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.

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.

Appropriate Material nitrile

Hand protection must comply with EN 374.

Eye protection

Safety glasses



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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

reddish

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

Remarks

Not applicable

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

1,0

g/cm³

Temperature

20

°C

Relative vapour density

Remarks

not determined

9.2. Other information**Odour threshold**

Remarks

not determined

Evaporation rate (ether = 1) :



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Remarks not determined

Solubility in water

Remarks miscible in all proportions

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

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**ATE 991,632 mg/kg
4

Method calculated value (Regulation (EC) No. 1272/2008)

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 787,009 mg/kg
8

Method calculated value (Regulation (EC) No. 1272/2008)



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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. |
|---------|---|

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. |
|---------|---|

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. |
|---------|---|

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**

| | | | |
|------------|-------------|--|--|
| Species | mouse | | |
| evaluation | sensitizing | | |
| Method | OECD 406 | | |

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)



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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.

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 (<i>Oncorhynchus mykiss</i>) | | |
| LC50 | 4,77 | | mg/l |
| Duration of exposure | 96 | h | |
| Method | OECD 203 | | |

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

| | | | |
|---------|--|--|------|
| Species | rainbow trout (<i>Oncorhynchus mykiss</i>) | | |
| NOEC | 4,93 | | mg/l |

Glycerol

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

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

| | | | |
|----------------------|---------------|---|------|
| Species | Daphnia magna | | |
| 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)



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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 evaluation | 29 | d | |
| | 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

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**



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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.

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

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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 |

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.