

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 3 Dec 2024  
Print date: 26 Aug 2025  
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name/designation:

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

Use of the substance/mixture:

The product is intended for research, analysis and scientific education.

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Mikrogen GmbH  
Anna Sigmund Strasse 10  
82061 Neuried  
Deutschland  
Telephone: 089-54801119  
E-mail: hendlmeier@mikrogen.de  
Website: www.mikrogen.de

1.4. Emergency telephone number

No data available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

| Hazard classes and hazard categories             | Hazard statements                          | Classification procedure |
|--------------------------------------------------|--------------------------------------------|--------------------------|
| Respiratory or skin sensitisation (Skin Sens. 1) | H317: May cause an allergic skin reaction. | Calculation method.      |

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS07

Exclamation mark

Signal word: Warning

Hazard components for labelling:

2-Methyl-2H-isothiazol-3

| Hazard statements for health hazards |                                      |
|--------------------------------------|--------------------------------------|
| H317                                 | May cause an allergic skin reaction. |

Supplemental hazard information: none

| Precautionary statements Prevention |                                                                        |
|-------------------------------------|------------------------------------------------------------------------|
| P261                                | Avoid breathing dust/fume/gas/mist/vapours/spray.                      |
| P272                                | Contaminated work clothing should not be allowed out of the workplace. |

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### Precautionary statements Prevention

|      |                                                                                                   |
|------|---------------------------------------------------------------------------------------------------|
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/.... |
|------|---------------------------------------------------------------------------------------------------|

### Precautionary statements Response

|             |                                            |
|-------------|--------------------------------------------|
| P302 + P352 | IF ON SKIN: Wash with plenty of water/.... |
|-------------|--------------------------------------------|

|      |                                             |
|------|---------------------------------------------|
| P321 | Specific treatment (see ... on this label). |
|------|---------------------------------------------|

|             |                                                          |
|-------------|----------------------------------------------------------|
| P362 + P364 | Take off contaminated clothing and wash it before reuse. |
|-------------|----------------------------------------------------------|

## 2.3. Other hazards

No data available

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

| Product identifiers                      | Substance name<br>Classification according to Regulation (EC) No 1272/2008 [CLP]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Concentration       |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| CAS No.: 26172-54-3<br>EC No.: 247-499-3 | <b>2-Methyl-2H-isothiazol-3</b><br>Acute Tox. 2 (H330), Acute Tox. 3 (H301, H311),<br>Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410),<br>Aquatic Chronic 2 (H411), Eye Dam. 1 (H318), Skin Corr. 1 (H314),<br>Skin Sens. 1 (H317)<br> Danger<br>M-factor (acute): 1 M-factor (chronic): 1<br><b>Specific concentration limit (SCL)</b><br>Skin Sens. 1A; H317: C ≥ 0.0015%<br><b>Acute Toxicity Estimate</b><br>ATE (oral) 175 mg/kg<br>ATE (dermal) 242 mg/kg<br>ATE (inhalation, dust/mist) 0.11 mg/L | 0 - ≤ 5<br>weight-% |

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

#### Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

#### In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

#### Following ingestion:

Rinse mouth. Let 1 glass of water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell.

#### Self-protection of the first aider:

Use personal protection equipment.

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

Allergic reactions

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

Treat symptomatically.

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media:**

Co-ordinate fire-fighting measures to the fire surroundings.

#### 5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

**Hazardous combustion products:**

In case of fire: Gases/vapours, toxic

#### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

#### 5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

**Personal precautions:**

Remove persons to safety.

**Protective equipment:**

Wear protective gloves/protective clothing/eye protection/face protection.

##### 6.1.2. For emergency responders

**Personal protection equipment:**

Personal protection equipment: see section 8

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

#### 6.3. Methods and material for containment and cleaning up

**For containment:**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

#### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

#### 6.5. Additional information

Use appropriate container to avoid environmental contamination.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Protective measures**

**Advices on safe handling:**

Wear personal protection equipment (refer to section 8).

**Fire prevent measures:**

No special measures are necessary.

**Advices on general occupational hygiene**

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes.

#### 7.2. Conditions for safe storage, including any incompatibilities

**Technical measures and storage conditions:**

Keep container tightly closed in a cool, well-ventilated place.

**Storage class (TRGS 510, Germany):** 12 - non-combustible liquids that cannot be assigned to any of the above storage classes

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### 7.3. Specific end use(s)

#### Recommendation:

Observe instructions for use.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No data available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

No data available

#### 8.2.2. Personal protection equipment

##### Eye/face protection:

Eye glasses with side protection EN 166

##### Skin protection:

Tested protective gloves must be worn EN ISO 374 Suitable material: Nitril Breakthrough time: 480 min In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration.

#### 8.2.3. Environmental exposure controls

No data available

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

Physical state: Liquid

Form: Liquid

Colour: colourless

Odour: odourless

flammability: No

#### Safety relevant basis data

| Parameter                                    | Value             | at °C | ① Method<br>② Remark |
|----------------------------------------------|-------------------|-------|----------------------|
| pH                                           | 5.2 - 7.6         | 20 °C |                      |
| Melting point                                | No data available |       |                      |
| Freezing point                               | No data available |       |                      |
| Initial boiling point and boiling range      | No data available |       |                      |
| Flash point                                  | not applicable    |       |                      |
| Evaporation rate                             | No data available |       |                      |
| Auto-ignition temperature                    | not applicable    |       |                      |
| Upper/lower flammability or explosive limits | No data available |       |                      |
| Vapour pressure                              | No data available |       |                      |
| Vapour density                               | No data available |       |                      |
| Density                                      | No data available |       |                      |
| Bulk density                                 | not applicable    |       |                      |
| Water solubility                             | No data available |       |                      |
| Dynamic viscosity                            | No data available |       |                      |
| Kinematic viscosity                          | No data available |       |                      |

### 9.2. Other information

No data available

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product itself does not burn.

#### 10.2. Chemical stability

No data available

#### 10.3. Possibility of hazardous reactions

No data available

#### 10.4. Conditions to avoid

No data available

#### 10.5. Incompatible materials

No data available

#### 10.6. Hazardous decomposition products

In case of fire: Gases/vapours, toxic

### SECTION 11: Toxicological information

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

|                                                                                                             |
|-------------------------------------------------------------------------------------------------------------|
| <b>2-Methyl-2H-isothiazol-3</b> CAS No.: 26172-54-3 EC No.: 247-499-3                                       |
| <b>LD<sub>50</sub> oral:</b> 175 mg/kg (Ratte) OECD 425                                                     |
| <b>LD<sub>50</sub> dermal:</b> 242 mg/kg (Ratte) OECD 402                                                   |
| <b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> 0.11 mg/L 4 h (Ratte) OECD Prüfrichtlinie 403 |

##### Acute oral toxicity:

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

##### Acute dermal toxicity:

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

##### Acute inhalation toxicity:

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

##### Skin corrosion/irritation:

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

##### Serious eye damage/irritation:

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

##### Respiratory or skin sensitisation:

May cause an allergic skin reaction.

##### Germ cell mutagenicity:

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

##### Carcinogenicity:

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

##### Reproductive toxicity:

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

##### STOT-single exposure:

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

##### STOT-repeated exposure:

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

##### Aspiration hazard:

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

##### Additional information:

No data available

#### 11.2. Information on other hazards

No data available

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### SECTION 12: Ecological information

#### 12.1. Toxicity

**2-Methyl-2H-isothiazol-3** CAS No.: 26172-54-3 EC No.: 247-499-3

**LC<sub>50</sub>**: 4.77 mg/L 4 d (fish, Oncorhynchus mykiss (Regenbogenforelle)) OECD 203

**EC<sub>50</sub>**: 2.33 mg/L 2 d (crustaceans, Daphnia magna (Großer Wasserfloh)) OECD 202

**EC<sub>50</sub>**: 0.998 mg/L 2 d (crustaceans, Krebstiere) OECD 202

**NOEC**: 0.9 mg/L 2 d (crustaceans, Daphnia magna ( Großer Wasserfloh) )) OECD 202

**NOEC**: 0.047 mg/L 3 d (Algae/water plant, Alge) OECD 201

**ErC<sub>50</sub>**: 0.289 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata (Grünalge)) OECD 201

**NOEC**: 2.38 mg/L (fish, Fisch) OECD 210

**NOEC**: 0.0442 mg/L 21 d (crustaceans, Daphnia magna) OECD-Prüfrichtlinie 211

#### 12.2. Persistence and degradability

**2-Methyl-2H-isothiazol-3** CAS No.: 26172-54-3 EC No.: 247-499-3

**Biodegradation**: Poorly biodegradable.

#### 12.3. Bioaccumulative potential

**2-Methyl-2H-isothiazol-3** CAS No.: 26172-54-3 EC No.: 247-499-3

**Log K<sub>ow</sub>**: -0.44

#### 12.4. Mobility in soil

No data available

#### 12.5. Results of PBT and vPvB assessment

**2-Methyl-2H-isothiazol-3** CAS No.: 26172-54-3 EC No.: 247-499-3

**Results of PBT and vPvB assessment**: —

#### 12.6. Endocrine disrupting properties

No data available

#### 12.7. Other adverse effects

No data available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Dispose of waste according to applicable legislation.

#### Waste treatment options

##### Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

### SECTION 14: Transport information

| Land transport (ADR/RID)                                   | Inland waterway craft (ADN)                                | Sea transport (IMDG)                                       | Air transport (ICAO-TI / IATA-DGR)                         |
|------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|
| <b>14.1. UN number or ID number</b>                        |                                                            |                                                            |                                                            |
| No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. |
| <b>14.2. UN proper shipping name</b>                       |                                                            |                                                            |                                                            |
| No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. |
| <b>14.3. Transport hazard class(es)</b>                    |                                                            |                                                            |                                                            |
| not relevant                                               | not relevant                                               | not relevant                                               | not relevant                                               |

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| Land transport (ADR/RID)                  | Inland waterway craft (ADN) | Sea transport (IMDG) | Air transport (ICAO-TI / IATA-DGR) |
|-------------------------------------------|-----------------------------|----------------------|------------------------------------|
| <b>14.4. Packing group</b>                |                             |                      |                                    |
| not relevant                              | not relevant                | not relevant         | not relevant                       |
| <b>14.5. Environmental hazards</b>        |                             |                      |                                    |
| not relevant                              | not relevant                | not relevant         | not relevant                       |
| <b>14.6. Special precautions for user</b> |                             |                      |                                    |
| not relevant                              | not relevant                | not relevant         | not relevant                       |

### 14.7. Maritime transport in bulk according to IMO instruments

No data available

## SECTION 15: Regulatory information

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

No data available

### 15.2. Chemical Safety Assessment

No data available

## SECTION 16: Other information

### 16.1. Indication of changes

No data available

### 16.2. Abbreviations and acronyms

|                  |                                                                                                 |
|------------------|-------------------------------------------------------------------------------------------------|
| ACGIH            | American Conference of Governmental Industrial Hygienists                                       |
| ADN              | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR              | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| CAS              | Chemical Abstracts Service                                                                      |
| CLP              | Classification, Labelling and Packaging                                                         |
| DIN              | German Institute for Standardization / German Industrial Standard                               |
| DNEL             | derived no-effect level                                                                         |
| EC <sub>50</sub> | Effective Concentration 50%                                                                     |
| EN               | European Standard                                                                               |
| ES               | Exposure scenario                                                                               |
| ICAO             | International Civil Aviation Organization                                                       |
| IMDG             | International Maritime Dangerous Goods                                                          |
| IMO              | International Maritime Organization                                                             |
| ISO              | International Standards Organisation                                                            |
| LC <sub>50</sub> | Lethal (fatal) Concentration 50%                                                                |
| LD <sub>50</sub> | Lethal (fatal) Dose 50%                                                                         |
| NFPA             | National Fire Protection Association                                                            |
| NIOSH            | National Institute for Occupational Safety & Health                                             |
| NOEC             | No Observed Effect Concentration                                                                |
| OECD             | Organisation for Economic Cooperation and Development                                           |
| OSHA             | Occupational Safety & Health Administration                                                     |
| PBT              | persistent and bioaccumulative and toxic                                                        |
| PNEC             | Predicted No Effect Concentration                                                               |
| REACH            | Registration, Evaluation and Authorization of Chemicals                                         |
| RID              | Dangerous goods regulations for transport by rail                                               |
| SCL              | Specific concentration limit                                                                    |
| UN               | United Nations                                                                                  |

### 16.3. Key literature references and sources for data

No data available

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**16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]**

| Hazard classes and hazard categories                         | Hazard statements                          | Classification procedure |
|--------------------------------------------------------------|--------------------------------------------|--------------------------|
| Respiratory or skin sensitisation<br>( <i>Skin Sens. 1</i> ) | H317: May cause an allergic skin reaction. | Calculation method.      |

**16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15**

| Hazard statements |                                                       |
|-------------------|-------------------------------------------------------|
| 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. |
| H411              | Toxic to aquatic life with long lasting effects.      |

**16.6. Training advice**

No data available

**16.7. Additional information**

No data available