# Safety Data Sheet

according to Regulation (EU) 2020/878

Date of issue: 03.07.2026 Revision date: 03.07.2026 Version/Replaced version: 13/12

## The Safety Data Sheet is usable for:

| REF | Name |
|---|---|
| TM E-9000 | Chromogranin A ELISA |
| TM E-9000I | Chromogranin A ELISA |
| TM E-9000R | Chromogranin A ELISA |
| DEE9000 | Chromogranin A ELISA |

### Single components with dangerous ingredients:

| REF | Name | |
|---|---|---|
| BA E-0080 | Stop Solution | STOP-SOLN |
| TM E-9010 | Antibody Conjugate | CONJUGATE |

**Not listed single components contain no hazardous substances in concentrations to be declared, a labelling is not required.**

# Stop Solution BA E-0080

Safety Data Sheet

according to Regulation (EU) 2020/878

Date of issue: 14.07.2023 Revision date: - Version/Replaced version: 1.0/-

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

### 1.1. Product identifier

Product form : Mixture

Product name : Stop Solution BA E-0080

UFI : -

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

#### 1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory reagent, Immunoassays
Use by professionals.

#### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

**Supplier/Manufacturer**
LDN Labor Diagnostika Nord GmbH & Co. KG
Am Eichenhain 1
48531 Nordhorn, Germany
T +49 (0)5921 81970 - F +49 (0)5921 8197 201
support@ldn.de

### 1.4. Emergency telephone number

| Country | Organisation/Company | Address | Emergency telephone number |
|---|---|---|---|
| Germany | LDN Labor Diagnostika Nord GmbH & Co. KG | Am Eichenhain 1<br>48531 Nordhorn, Germany | +49 (0) 5921-81970<br>(Mo-Fr 8:00-16:00) |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Corrosive to metals, Category 1 H290

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects

May be corrosive to metals.

### 2.2. Label elements

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

Hazard pictograms (CLP) :

GHS05

Signal word (CLP) : Warning

Hazard statements (CLP) : H290 - May be corrosive to metals.

Precautionary statements (CLP) : P234 - Keep only in original packaging.
P390 - Absorb spillage to prevent material damage.
P406 - Store in a corrosion resistant container with a resistant inner liner.

Reduced labelling (contents of the package ≤ 125 ml) according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) : -

Signal word (CLP) : -

Hazard statements (CLP) : -

Precautionary statements (CLP) : -

### 2.3. Other hazards

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---|---|
| Sulphuric acid | (CAS-No.) 7664-93-9<br>(EC-No.) 231-639-5<br>(EC Index-No.) 016-020-00-8 | < 5 | Met. Corr. 1, H290<br>Skin Corr. 1A, H314 |

| Name | Product identifier | Specific concentration limits according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---|
| Sulphuric acid | (CAS-No.) 7664-93-9<br>(EC-No.) 231-639-5<br>(EC Index-No.) 016-020-00-8 | (5 ≤ C < 15) Eye Irrit. 2, H319<br>(5 ≤ C < 15) Skin Irrit. 2, H315<br>(C ≥ 15) Skin Corr. 1A, H314 |

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Get medical advice/attention if you feel unwell. If possible show him this sheet. Failing this, show him the packaging or label. Never give anything by mouth to an unconscious person. Place the affected person in the recovery position.

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

First-aid measures after skin contact : Take off immediately all contaminated clothing. Gently wash with plenty of soap and water.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Drink plenty of water as a precaution.

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

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Adapt extinguishing agents to the environment. Carbon dioxide. Foam. Dry extinguishing powder. Water spray.

Unsuitable extinguishing media : Do not use a heavy water stream.

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

Hazardous decomposition products in case of fire : Toxic gases may be formed. Carbon dioxide. Carbon monoxide.

### 5.3. Advice for firefighters

Firefighting instructions : Prevent firefighting water from entering the environment. Use water spray or fog for cooling exposed containers.

Protection during firefighting : Use a self-contained breathing apparatus and also a protective suit.

## SECTION 6: Accidental release measures

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

General measures : Ensure adequate air ventilation. Avoid contact with skin and eyes. Do not breathe vapours/spray.

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required. In case of inadequate ventilation wear respiratory protection.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

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

Methods for cleaning up : Absorb spillage to prevent material damage. Wipe up with absorbent material (for example cloth). Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Dispose of in accordance with relevant local regulations.

### 6.4. Reference to other sections

Exposure controls and personal protection, see section 8. Concerning disposal elimination after cleaning, see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapour/aerosol.

Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

Storage conditions : Store in corrosive resistant container with a resistant inner liner. Store in original container. Keep container tightly closed. Store in a cool, well-ventilated place. Protect from direct sunlight. Keep out of frost.

Prohibitions on mixed storage : Keep away from food, drink and animal feedingstuffs.

Incompatible materials : Metals.

### 7.3. Specific end use(s)

Laboratory reagent, Immunoassays

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| **Sulphuric acid (7664-93-9)** | | |
|---|---|---|
| EU | Local name | Sulphuric acid (mist) |
| EU | IOEL TWA | 0.05 mg/m³ |
| Austria | Local name | Schwefelsäure |
| Austria | MAK (OEL TWA) (mg/m³) | 0.1 E mg/m³ |
| Austria | MAK (OEL STEL) (mg/m³) | 0.2 E mg/m³ |
| Belgium | Local name | Acide sulfurique (brume) # Zwavelzuur (nevel) |
| Belgium | OEL TWA (mg/m³) | 0.2 mg/m³ |
| Belgium | Remark | C |
| Germany | TRGS 900 Local name | Schwefelsäure |
| Germany | TRGS 900 Occupational Exposure Limit Value (mg/m³) | 0.1 E mg/m³ |
| Germany | TRGS 900 Remark | 1(I), DFG, EU, Y |
| Luxembourg | Local name | Acide sulfurique (brume) |
| Luxembourg | OEL STEL (mg/m³) | 0.05 mg/m³ |
| Switzerland | Local name | Schwefelsäure |
| Switzerland | MAK (mg/m³) | 0.1 e mg/m³ |
| Switzerland | KZGW (mg/m³) | 0.2 e mg/m³ |
| Switzerland | Notation | $C1^{\#}_{A}$, SSc |

### 8.2. Exposure controls

**Appropriate engineering controls:**

Provide local exhaust or general room ventilation to minimize vapour concentrations.

**Hand protection:**

Wear suitable gloves (EN 374). Nitrile rubber, 0.35 mm. Butyl rubber, 0.5 mm. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**

Wear safety glasses (EN 166).

**Skin and body protection:**

Wear suitable protective clothing.

**Respiratory protection:**

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Breathing apparatus with filter type P2.

**Environmental exposure controls:**

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

| | | |
|---|---|---|
| Physical state | : | Liquid |
| Colour | : | Colourless |
| Odour | : | No data available |
| Melting point/freezing point | : | No data available |
| Boiling point or initial boiling point and boiling range | : | No data available |
| Flammability | : | No data available |
| Lower and upper explosion limit | : | No data available |
| Flash point | : | No data available |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| pH | : | < 1.0 |
| Kinematic viscosity | : | No data available |
| Solubility | : | No data available |
| Partition coefficient n-octanol/water (log value) | : | Not applicable |
| Vapour pressure | : | No data available |
| Density and/or relative density | : | No data available |
| Relative vapour density | : | No data available |
| Particle size | : | Not applicable |

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

| | | |
|---|---|---|
| Explosive properties | : | No explosive properties |
| Oxidising properties | : | No oxidising properties |

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

### 10.2. Chemical stability

Stable under use and storage conditions as recommended in section 7.

### 10.3. Possibility of hazardous reactions

May be corrosive to metals.

### 10.4. Conditions to avoid

High temperatures.

### 10.5. Incompatible materials

Strong oxidizing agents. Strong bases. Strong acids. Metals.

### 10.6. Hazardous decomposition products

No hazardous decomposition products known at room temperature. In case of fire: Toxic gases may be formed. Carbon dioxide. Carbon monoxide.

## SECTION 11: Toxicological information

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

Acute toxicity : Not classified

Based on available data, the classification criteria are not met

| **Sulphuric acid (7664-93-9)** | |
|---|---|
| LD50 oral rat | 2140 mg/kg |
| LC50 inhalation rat | 375 mg/m³ |

Skin corrosion/irritation : Not classified

Based on available data, the classification criteria are not met

| | | |
|---|---|---|
| Serious eye damage/irritation | : | Not classified<br>Based on available data, the classification criteria are not met |
| Respiratory or skin sensitisation | : | Not classified<br>Based on available data, the classification criteria are not met |
| Germ cell mutagenicity | : | Not classified<br>Based on available data, the classification criteria are not met |
| Carcinogenicity | : | Not classified<br>Based on available data, the classification criteria are not met |
| Reproductive toxicity | : | Not classified<br>Based on available data, the classification criteria are not met |
| Specific target organ toxicity (single exposure) | : | Not classified<br>Based on available data, the classification criteria are not met |
| Specific target organ toxicity (repeated exposure) | : | Not classified<br>Based on available data, the classification criteria are not met |
| Aspiration hazard | : | Not classified<br>Based on available data, the classification criteria are not met |

### 11.2. Information on other hazards

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met

## SECTION 12: Ecological information

### 12.1. Toxicity

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Not classified

| **Sulphuric acid (7664-93-9)** | |
|---|---|
| LC50 fish | > 16 - < 28 mg/l 96 h, Lepomis macrochirus |
| EC50 crustacea | > 100 mg/l 48 h, Daphnia magna |
| EC50 algae | > 100 mg/l 72 h, Desmodesmus subspicatus |
| NOEC chronic fish | 0.31 mg/l 213 d, Salvelinus fontinalis |
| NOEC chronic crustacea | 0.15 mg/l, Tanytarsus dissimilis |

### 12.2. Persistence and degradability

Not required for inorganic substances.

### 12.3. Bioaccumulative potential

Not required for inorganic substances.

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste) : Dispose in a safe manner in accordance with local/national regulations.

Waste treatment methods : Do not empty into drains. Dispose of this material and its container in a safe way.

Waste code : The waste code number according to the Ordinance on the European Waste Catalogue depends on the waste producer and can therefore vary for any given product. The waste code number is therefore to be gleaned separately from each waste producer.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

### 14.1. UN number or ID number

UN-No. (ADR) : Not applicable

UN-No. (IMDG) : Not applicable

UN-No. (IATA) : Not applicable

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable

### 14.3. Transport hazard class(es)

**ADR**

Transport hazard class(es) (ADR) : Not applicable

**IMDG**

Transport hazard class(es) (IMDG) : Not applicable

**IATA**

Transport hazard class(es) (IATA) : Not applicable

### 14.4. Packing group

Packing group (ADR) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

### 14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

### 14.6. Special precautions for user

**Overland transport**

Not applicable

**Transport by sea**

Not applicable

**Air transport**

Not applicable

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

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

**Germany**

Water hazard class (WGK) : WGK 1 - Slightly hazardous to water
WGK Remark : Classification according to AwSV, Annex 1
Storage class (LGK) : LGK 10 - 13
Employment restrictions : Employment prohibitions for the protection of young people at work according to § 22 section 1(6) JArbSchG have to be observed.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Changes compared to the previous version : -

Abbreviations and acronyms:

| | |
|---|---|
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| CLP | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures |

| | |
|---|---|
| DMEL | Derived Minimal Effect Level |
| DNEL | Derived No-Effect Level |
| EC50 | The effective concentration of substance that causes 50% of the maximum response (Median Effective Concentration) |
| IATA | International Air Transport Association |
| IMDG | “International Maritime Dangerous Goods Code” for the transport of dangerous goods by sea |
| LC50 | Lethal Concentration to 50 % of a test population (Median Lethal Concentration) |
| LD50 | Lethal Dose to 50% of a test population (Median Lethal Dose) |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC/L | No Observed Adverse Effect Concentration/Level |
| NOEC/L | No Observed Effect Concentration/Level |
| OECD | Organisation for Economic Cooperation and Development |
| PBT | Persistent, Bioaccumulative and Toxic substance |
| PNEC | Predicted No-Effect Concentration |
| REACH | Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals |
| SDS | Safety Data Sheet |
| STP | Sewage Treatment Plant |
| UFI | Unique Formula Identifier |
| vPvB | Very Persistent and Very Bioaccumulative |

Full text of H- and EUH-phrases:

| | |
|---|---|
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Met. Corr. 1 | Corrosive to metals, Category 1 |
| Skin Corr. 1A | Skin corrosion/irritation, Category 1, Sub-Category 1A |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| H290 | May be corrosive to metals. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

# Antibody Conjugate TM E-9010

Safety Data Sheet

according to Regulation (EU) 2020/878

Date of issue: 21.06.2024 Revision date: - Version/Replaced version: 1.0/-

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

### 1.1. Product identifier

Product form : Mixture

Product name : Antibody Conjugate TM E-9010

UFI : -

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

#### 1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory reagent, Immunoassays
Use by professionals.

#### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

**Supplier/Manufacturer**
LDN Labor Diagnostika Nord GmbH & Co. KG
Am Eichenhain 1
48531 Nordhorn, Germany
T +49 (0)5921 81970 - F +49 (0)5921 8197 201
support@ldn.de

### 1.4. Emergency telephone number

| Country | Organisation/Company | Address | Emergency telephone number |
|---|---|---|---|
| Germany | LDN Labor Diagnostika Nord GmbH & Co. KG | Am Eichenhain 1<br>48531 Nordhorn, Germany | +49 (0) 5921-81970<br>(Mo-Fr 8:00-16:00) |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Skin sensitisation, Category 1 H317

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects

May cause an allergic skin reaction.

### 2.2. Label elements

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

Hazard pictograms (CLP) :

GHS07

Signal word (CLP) : Warning

Hazardous ingredients : 2-methyl-2H-isothiazol-3-one

Hazard statements (CLP) : H317 - May cause an allergic skin reaction.

Precautionary statements (CLP) : P280 - Wear protective gloves.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P501 - Dispose of contents/container to an authorised waste collection point.

Reduced labelling (contents of the package ≤ 125 ml) according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :

GHS07

Signal word (CLP) : Warning

Hazardous ingredients : 2-methyl-2H-isothiazol-3-one

Hazard statements (CLP) : H317 - May cause an allergic skin reaction.

Precautionary statements (CLP) : P280 - Wear protective gloves.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P501 - Dispose of contents/container to an authorised waste collection point.

### 2.3. Other hazards

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---|---|
| 2-methyl-2H-isothiazol-3-one | (CAS No) 2682-20-4<br>(EC No) 220-239-6<br>(EC index No) 613-326-00-9<br>(REACH No) 01-2120764690-50-xxxx | 0.01 | Acute Tox. 2 (Inhalation), H330<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 3 (Oral), H301<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Skin Sens. 1A, H317<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 1, H410 |

| Name | Product identifier | Specific concentration limits according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---|
| 2-methyl-2H-isothiazol-3-one | (CAS No) 2682-20-4<br>(EC No) 220-239-6<br>(EC index No) 613-326-00-9<br>(REACH No) 01-2120764690-50-xxxx | (C ≥ 0.0015) Skin Sens. 1A, H317 |

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Get medical advice/attention if you feel unwell. If possible show him this sheet. Failing this, show him the packaging or label. Never give anything by mouth to an unconscious person. Place the affected person in the recovery position.

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Make the affected person rest and keep at warm. If breathing stops, give artificial respiration.

First-aid measures after skin contact : Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Drink water as a precaution.

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

Symptoms/effects after skin contact : May cause an allergic skin reaction.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Adapt extinguishing agents to the environment. Carbon dioxide. Foam. Dry extinguishing powder. Water spray.

Unsuitable extinguishing media : Do not use a heavy water stream.

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

Hazardous decomposition products in case of fire : Toxic gases may be formed. Carbon dioxide. Carbon monoxide. Sulphur oxides. Nitrogen oxides.

### 5.3. Advice for firefighters

Firefighting instructions : Prevent firefighting water from entering the environment. Use water spray or fog for cooling exposed containers.

Protection during firefighting : Use a self-contained breathing apparatus and also a protective suit.

## SECTION 6: Accidental release measures

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

General measures : Stop leak if safe to do so. Provide adequate ventilation. Avoid contact with skin and eyes. Do not breathe vapours/spray.

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required. In case of inadequate ventilation wear respiratory protection.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

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

Methods for cleaning up : Wipe up with absorbent material (for example cloth). Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Dispose of in accordance with relevant local regulations.

### 6.4. Reference to other sections

Exposure controls and personal protection, see section 8. Concerning disposal elimination after cleaning, see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapour/aerosol.

Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash it before reuse.

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

Storage conditions : Store in original container. Keep container tightly closed. Store in a dry, cool, well-ventilated place. Protect from direct sunlight.

Prohibitions on mixed storage : Keep away from food, drink and animal feedingstuffs.

### 7.3. Specific end use(s)

Laboratory reagent, Immunoassays.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| **2-methyl-2H-isothiazol-3-one (2682-20-4)** | |
|---|---|
| **DNEL/DMEL (Workers)** | |
| Long-term - local effects, inhalation | 0.021 mg/m³ |
| Acute - local effects, inhalation | 0.043 mg/m³ |
| **DNEL/DMEL (General population)** | |
| Long-term - systemic effects, oral | 0.027 mg/kg bodyweight/day |
| Acute - systemic effects, oral | 0.053 mg/kg bodyweight/day |
| Long-term - local effects, inhalation | 0.021 mg/m³ |
| Acute - local effects, inhalation | 0.043 mg/m³ |
| **PNEC (Water)** | |
| PNEC aqua (freshwater) | 3.39 µg/l |
| PNEC aqua (marine water) | 3.39 µg/l |
| PNEC aqua (intermittent, freshwater) | 3.39 µg/l |
| PNEC aqua (intermittent, marine water) | 3.39 µg/l |
| **PNEC (Soil)** | |
| PNEC soil | 0.047 mg/kg dwt |
| **PNEC (STP)** | |
| PNEC sewage treatment plant | 0.23 mg/l |

### 8.2. Exposure controls

**Appropriate engineering controls:**

Provide local exhaust or general room ventilation to minimize vapour concentrations.

**Hand protection:**

Wear suitable gloves (EN 374). Nitrile rubber, 0.35 mm, Butyl rubber, 0.5 mm. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**

Wear safety glasses (EN 166).

**Skin and body protection:**

Wear suitable protective clothing.

**Respiratory protection:**

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Breathing apparatus with filter type A.

**Environmental exposure controls:**

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

| | | |
|---|---|---|
| Physical state | : | Liquid |
| Colour | : | No data available |
| Odour | : | No data available |
| Melting point/freezing point | : | No data available |
| Boiling point or initial boiling point and boiling range | : | No data available |
| Flammability | : | No data available |
| Lower and upper explosion limit | : | No data available |
| Flash point | : | No data available |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| pH | : | No data available |
| Kinematic viscosity | : | No data available |
| Solubility | : | Completely soluble in Water |
| Partition coefficient n-octanol/water (log value) | : | Not applicable |
| Vapour pressure | : | No data available |
| Density and/or relative density | : | No data available |
| Relative vapour density | : | No data available |
| Particle size | : | Not applicable |

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

| | | |
|---|---|---|
| Explosive properties | : | No explosive properties. |
| Oxidising properties | : | No oxidising properties. |

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

### 10.2. Chemical stability

Stable under use and storage conditions as recommended in section 7.

### 10.3. Possibility of hazardous reactions

None under normal use.

### 10.4. Conditions to avoid

High temperatures.

### 10.5. Incompatible materials

Strong oxidizing agents. Strong bases. Strong acids.

### 10.6. Hazardous decomposition products

No hazardous decomposition products known. In case of fire: Toxic fumes may be released. Carbon dioxide. Carbon monoxide. Sulphur oxides. Nitrogen oxides.

## SECTION 11: Toxicological information

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

Acute toxicity : Not classified
Based on available data, the classification criteria are not met

| 2-methyl-2H-isothiazol-3-one (2682-20-4) | |
|---|---|
| LD50 oral rat | 120 mg/kg |
| LD50 dermal rat | 242 mg/kg |
| LC50 inhalation rat | 0.1 mg/l/4h |

Skin corrosion/irritation : Not classified
Based on available data, the classification criteria are not met

Serious eye damage/irritation : Not classified
Based on available data, the classification criteria are not met

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified
Based on available data, the classification criteria are not met

Carcinogenicity : Not classified
Based on available data, the classification criteria are not met

Reproductive toxicity : Not classified
Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure) : Not classified
Based on available data, the classification criteria are not met

Specific target organ toxicity (repeated exposure) : Not classified
Based on available data, the classification criteria are not met

Aspiration hazard : Not classified
Based on available data, the classification criteria are not met

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

Endocrine disruption for human health : The mixture has no endocrine disrupting properties.

#### 11.2.2. Other information

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met

## SECTION 12: Ecological information

### 12.1. Toxicity

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Not classified

| 2-methyl-2H-isothiazol-3-one (2682-20-4) | |
|---|---|
| LC50 fish | 4.77 mg/l 96 h, Oncorhynchus mykiss |
| EC50 daphnia | 0.934 mg/l 48 h, Daphnia magna |
| EC50 algae | 0.22 mg/l 120 h, Raphidocelis subcapitata |
| EC50 micro-organisms | 41 mg/l 3 h, activated sludge |
| NOEC fish | 4.93 mg/l 98 d, Oncorhynchus mykiss |
| NOEC daphnia | 0.044 mg/l 21 d, Daphnia magna |
| NOEC algae | 0.05 mg/l 120 h, Raphidocelis subcapitata |

### 12.2. Persistence and degradability

| 2-methyl-2H-isothiazol-3-one (2682-20-4) | |
|---|---|
| Persistence and degradability | Not readily biodegradable. |
| Biodegradation | 50 % 29 d (OECD 301 B) |

### 12.3. Bioaccumulative potential

| 2-methyl-2H-isothiazol-3-one (2682-20-4) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | -0.486 (20 °C) |

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

### 12.6. Endocrine disrupting properties

Endocrine disruption for the environment : The mixture has no endocrine disrupting properties.

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste) : Dispose in a safe manner in accordance with local/national regulations.

Waste treatment methods : Do not empty into drains. Dispose of this material and its container in a safe way.

Waste code : The waste code number according to the Ordinance on the European Waste Catalogue depends on the waste producer and can therefore vary for any given product. The waste code number is therefore to be gleaned separately from each waste producer.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

### 14.1. UN number or ID number

UN-No. (ADR) : Not applicable

UN-No. (IMDG) : Not applicable

UN-No. (IATA) : Not applicable

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable

Proper Shipping Name (IMDG) : Not applicable

Proper Shipping Name (IATA) : Not applicable

### 14.3. Transport hazard class(es)

**ADR**

Transport hazard class(es) (ADR) : Not applicable

**IMDG**

Transport hazard class(es) (IMDG) : Not applicable

**IATA**

Transport hazard class(es) (IATA) : Not applicable

### 14.4. Packing group

Packing group (ADR) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

### 14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

### 14.6. Special precautions for user

**Overland transport**

Not applicable

**Transport by sea**

Not applicable

**Air transport**

Not applicable

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

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

**Germany**

| | | |
|---|---|---|
| Water hazard class (WGK) | : | WGK 1 - Slightly hazardous to water |
| WGK Remark | : | Classification according to AwSV, Annex 1 |
| Storage class (LGK) | : | LGK 10 - 13 |
| Employment restrictions | : | Employment prohibitions for the protection of young people at work according to § 22 section 1(6) JArbSchG have to be observed. |

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

| | | |
|---|---|---|
| Data sources | : | REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. |
| Changes compared to the previous version | : | - |

Abbreviations and acronyms:

| | |
|---|---|
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| CLP | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures |
| DMEL | Derived Minimal Effect Level |
| DNEL | Derived No-Effect Level |
| EC50 | The effective concentration of substance that causes 50% of the maximum response (Median Effective Concentration) |
| IATA | International Air Transport Association |
| IMDG | “International Maritime Dangerous Goods Code” for the transport of dangerous goods by sea |
| LC50 | Lethal Concentration to 50 % of a test population (Median Lethal Concentration) |
| LD50 | Lethal Dose to 50% of a test population (Median Lethal Dose) |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC/L | No Observed Adverse Effect Concentration/Level |
| NOEC/L | No Observed Effect Concentration/Level |
| OECD | Organisation for Economic Cooperation and Development |
| PBT | Persistent, Bioaccumulative and Toxic substance |
| PNEC | Predicted No-Effect Concentration |
| REACH | Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals |
| SDS | Safety Data Sheet |
| STP | Sewage Treatment Plant |
| UFI | Unique Formula Identifier |
| vPvB | Very Persistent and Very Bioaccumulative |

Full text of H- and EUH-phrases:

| | |
|---|---|
| Acute Tox. 2 (Inhalation) | Acute toxicity (inhal.), Category 2 |
| Acute Tox. 3 (Dermal) | Acute toxicity (dermal), Category 3 |
| Acute Tox. 3 (Oral) | Acute toxicity (oral), Category 3 |
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment – Chronic Hazard, Category 1 |
| Eye Dam. 1 | Serious eye damage/ irritation, Category 1 |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1B |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| Skin Sens. 1A | Skin sensitisation, Category 1A |
| 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. |

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.