# **Safety Data Sheet**



according to REACH Regulation (EG) 1907/2006 amended by Regulation (EU) 2020/878

Revision: 2023-07-18 Version: 006 Previous Version: 005

Product Identifier REF 3002

| Component                    | SDS Version | Annex |
|------------------------------|-------------|-------|
| Microtiter plate             | V003        | 1     |
| Calibrators CAL              | V003        | 2     |
| Negative control CONTROL   - | V003        | 2     |
| Positive control CONTROL   + | V003        | 2     |
| Sample diluent DIL           | V003        | 3     |
| Wash buffer WASHB            | V003        | 4     |
| Conjugate CONJ               | V003        | 5     |
| Substrate SUB                | V005        | 6     |
| Stop solution STOP           | V003        | 7     |



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Annex: Safety Data Sheets for individual Components



# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 3/21/2022 Revision date: 6/21/2023 Supersedes version of: 4/11/2022 Version: 3.0

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

# 1.1. Product identifier

Product form : Article

Product name : MP Microtiter Plate

Product code : MP

Product group : Raw material

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

#### 1.2.1. Relevant identified uses

Main use category : Professional use

## 1.2.2. Uses advised against

No additional information available

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

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#### 1.4. Emergency telephone number

| Country | Organisation/Company   | Address                           | Emergency number | Comment |
|---------|--|-----------------------------------|------------------|---------|
| Germany | Giftnotruf der Charité -<br>Universitätsmedizin Berlin<br>CBF, Haus VIII (Wirtschaftgebäude), UG | Hindenburgdamm 30<br>12203 Berlin | +49 (0) 30 19240 |         |

# **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

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

Not classified

## Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

## 2.2. Label elements

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

No labelling applicable

## 2.3. Other hazards

No additional information available

# **SECTION 3: Composition/information on ingredients**

# 3.1. Substances

Not applicable

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

#### 3.2. Mixtures

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH Annex II

# **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.
First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

No additional information available

## 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 : Water spray. Dry powder. Foam.

# 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

## 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

## **SECTION 6: Accidental release measures**

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

# 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

## 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

# 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

## 6.4. Reference to other sections

For further information refer to section 13.

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# **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.

Hygiene measures

: Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

# 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

# 7.3. Specific end use(s)

No additional information available

# SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

## 8.1.1 National occupational exposure and biological limit values

No additional information available

## 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

# 8.2.1. Appropriate engineering controls

# Appropriate engineering controls:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

#### Personal protective equipment symbol(s):







## 8.2.2.1. Eye and face protection

## Eye protection:

Safety glasses

# 8.2.2.2. Skin protection

## Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

Protective gloves

## 8.2.2.3. Respiratory protection

## Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

#### 8.2.2.4. Thermal hazards

No additional information available

## 8.2.3. Environmental exposure controls

#### **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 : Solid Colour : Not available Odour : Not available : Not available Odour threshold Melting point : Not available Freezing point : Not applicable Boiling point : Not available Flammability : Non flammable. Lower explosion limit : Not applicable Upper explosion limit : Not applicable Flash point : Not applicable : Not applicable Auto-ignition temperature : Not available Decomposition temperature : Not available pH solution : Not available Viscosity, kinematic : Not applicable Solubility : Not available Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available Vapour pressure at 50°C : Not available Density : Not available Relative density : Not available Relative vapour density at 20°C : Not applicable Particle size : Not available

# 9.2. Other information

# 9.2.1. Information with regard to physical hazard classes

No additional information available

# 9.2.2. Other safety characteristics

No additional information available

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

## 10.2. Chemical stability

Stable under normal conditions.

# 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

# 10.5. Incompatible materials

No additional information available

# 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

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

: Not classified Acute toxicity (oral) : Not classified Acute toxicity (dermal) Acute toxicity (inhalation) Not classified Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified : Not classified Respiratory or skin sensitisation Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified Aspiration hazard : Not classified

## **MP Microtiter Plate**

Viscosity, kinematic Not applicable

#### 11.2. Information on other hazards

No additional information available

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Hazardous to the aquatic environment, short-term

(acute)

Hazardous to the aquatic environment, long-term : Not classified

(chronic)

Not rapidly degradable

: Not classified

NOL CIASSIIICU

# 12.2. Persistence and degradability

No additional information available

# 12.3. Bioaccumulative potential

No additional information available

# 12.4. Mobility in soil

No additional information available

## 12.5. Results of PBT and vPvB assessment

No additional information available

# 12.6. Endocrine disrupting properties

No additional information available

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

# 12.7. Other adverse effects

No additional information available

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

# **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR                                    | IMDG                | IATA          | ADN           | RID           |  |  |
|--|---------------------|---------------|---------------|---------------|--|--|
| 14.1. UN number or ID number           |                     |               |               |               |  |  |
| Not regulated for transport            |                     |               |               |               |  |  |
| Not regulated                          | Not regulated       | Not regulated | Not regulated | Not regulated |  |  |
| 14.2. UN proper shippin                | g name              |               |               |               |  |  |
| Not regulated                          | Not regulated       | Not regulated | Not regulated | Not regulated |  |  |
| 14.3. Transport hazard                 | class(es)           |               |               |               |  |  |
| Not regulated                          | Not regulated       | Not regulated | Not regulated | Not regulated |  |  |
| 14.4. Packing group                    | 14.4. Packing group |               |               |               |  |  |
| Not regulated                          | Not regulated       | Not regulated | Not regulated | Not regulated |  |  |
| 14.5. Environmental hazards            |                     |               |               |               |  |  |
| Not regulated                          | Not regulated       | Not regulated | Not regulated | Not regulated |  |  |
| No supplementary information available |                     |               |               |               |  |  |

# 14.6. Special precautions for user

# **Overland transport**

Not regulated

# Transport by sea

Not regulated

# Air transport

Not regulated

# **Inland waterway transport**

Not regulated

## Rail transport

Not regulated

# 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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## **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

# **REACH Annex XVII (Restriction List)**

Not applicable.

## **REACH Annex XIV (Authorisation List)**

Not applicable.

#### **REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

#### **POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

#### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

#### **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

## **Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

# 15.1.2. National regulations

#### Germany

**Employment restrictions** 

Water hazard class (WGK)

Storage class (LGK, TRGS 510)

Joint storage table

: Observe restrictions according Act on the Protection of Working Mothers (MuSchG).

Observe restrictions according Act on the Protection of Young People in Employment

: Not classified according to Regulation Governing Systems for Handling Substances Hazardous to Waters (AwSV).

: LGK 13 - Non-combustible solids.

| LGK 1    | LGK 2A  | LGK 2B   | LGK 3    | LGK 4.1A  |
|----------|---------|----------|----------|-----------|
| LGK 4.1B | LGK 4.2 | LGK 4.3  | LGK 5.1A | LGK 5.1B  |
| LGK 5.1C | LGK 5.2 | LGK 6.1A | LGK 6.1B | LGK 6.1C  |
| LGK 6.1D | LGK 6.2 | LGK 7    | LGK 8A   | LGK 8B    |
| LGK 10   | LGK 11  | LGK 12   | LGK 13   | LGK 10-13 |

Joint storage not permitted for

Joint storage with restrictions permitted for

Joint storage permitted for

: LGK 1, LGK 6.2, LGK 7.

: LGK 4.1A, LGK 5.1C.

: LGK 2A, LGK 2B, LGK 3, LGK 4.1B, LGK 4.2, LGK 4.3, LGK 5.1A, LGK 5.1B, LGK 5.2, LGK 6.1A, LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, LGK 10, LGK 11, LGK 12,

LGK 13, LGK 10-13.

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

# 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## **SECTION 16: Other information**

# **Abbreviations and acronyms:**

ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

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| Abbreviations and acre | onyms:  |
|------------------------|---|
| ADR                    | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE                    | Acute Toxicity Estimate   |
| BCF                    | Bioconcentration factor   |
| BLV                    | Biological limit value  |
| BOD                    | Biochemical oxygen demand (BOD)   |
| COD                    | Chemical oxygen demand (COD)  |
| DMEL                   | Derived Minimal Effect level  |
| DNEL                   | Derived-No Effect Level   |
| EC-No.                 | European Community number   |
| EC50                   | Median effective concentration  |
| EN                     | European Standard   |
| IARC                   | International Agency for Research on Cancer   |
| IATA                   | International Air Transport Association   |
| IMDG                   | International Maritime Dangerous Goods  |
| LC50                   | Median lethal concentration   |
| LD50                   | Median lethal dose  |
| LOAEL                  | Lowest Observed Adverse Effect Level  |
| NOAEC                  | No-Observed Adverse Effect Concentration  |
| NOAEL                  | No-Observed Adverse Effect Level  |
| NOEC                   | No-Observed Effect Concentration  |
| OECD                   | Organisation for Economic Co-operation and Development                              |
| OEL                    | Occupational Exposure Limit   |
| PBT                    | Persistent Bioaccumulative Toxic  |
| PNEC                   | Predicted No-Effect Concentration   |
| RID                    | Regulations concerning the International Carriage of Dangerous Goods by Rail        |
| SDS                    | Safety Data Sheet   |
| STP                    | Sewage treatment plant  |
| ThOD                   | Theoretical oxygen demand (ThOD)  |
| TLM                    | Median Tolerance Limit  |
| VOC                    | Volatile Organic Compounds  |
| CAS-No.                | Chemical Abstract Service number  |
| N.O.S.                 | Not Otherwise Specified   |
| vPvB                   | Very Persistent and Very Bioaccumulative  |
| ED                     | Endocrine disrupting properties   |

The classification complies with

: ATP 12

Safety Data Sheet (SDS), EU

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.



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

## 1.1. Product identifier

Product form : Mixture

Product name : MP Calibrators and Controls (SP02)

Product code : CAL / CONTROL

Product group : Blend

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

#### 1.2.1. Relevant identified uses

Main use category : Professional use

## 1.2.2. Uses advised against

No additional information available

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

Medipan GmbH GmbH Ludwig-Erhard-Ring, 3

DE- 15827 Blankenfelde-Mahlow OT Dahlewitz

Germany

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info@medipan.de - www.medipan.de

#### 1.4. Emergency telephone number

| Country | Organisation/Company   | Address                           | Emergency number | Comment |
|---------|--|-----------------------------------|------------------|---------|
| Germany | Giftnotruf der Charité -<br>Universitätsmedizin Berlin<br>CBF, Haus VIII (Wirtschaftgebäude), UG | Hindenburgdamm 30<br>12203 Berlin | +49 (0) 30 19240 |         |

# **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- and EUH-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

Contains

: 2-methylisothiazol-3(2H)-one

Hazard statements (CLP)

: H317 - May cause an allergic skin reaction.

Precautionary statements (CLP) : P261 - Avoid breathing spray, vapours.

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

protection.

P321 - Specific treatment (see supplemental first aid instruction on this label).

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P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse.

## 2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

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 at a concentration equal to or greater than 0,1 %

# **SECTION 3: Composition/information on ingredients**

# 3.1. Substances

Not applicable

## 3.2. Mixtures

| Name                         | Product identifier  | %    | Classification according to<br>Regulation (EC) No. 1272/2008<br>[CLP]  |
|------------------------------|---|------|--|
| 2-methylisothiazol-3(2H)-one | CAS-No.: 2682-20-4<br>EC-No.: 220-239-6<br>EC Index-No.: 613-326-00-9 | 0.02 | Acute Tox. 3 (Oral), H301 (ATE=66 mg/kg bodyweight) Acute Tox. 2 (Dermal), H310 (ATE=141 mg/kg bodyweight) Acute Tox. 2 (Inhalation), H330 (ATE=0.33 mg/l/4h) Acute Tox. 2 (Inhalation:dust,mist), H330 (ATE=0.33 mg/l/4h) Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071 |

| Specific concentration limits: |   |  |  |  |
|--------------------------------|---|--|--|--|
| Name                           | Product identifier  | Specific concentration limits (%)      |  |  |
| 2-methylisothiazol-3(2H)-one   | CAS-No.: 2682-20-4<br>EC-No.: 220-239-6<br>EC Index-No.: 613-326-00-9 | (0.0015 ≤ C ≤ 100) Skin Sens. 1A, H317 |  |  |

Full text of H- and EUH-statements: see section 16

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash

occurs: Get medical advice/attention.

: Rinse eyes with water as a precaution.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

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

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# 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 : Water spray. Dry powder. Foam. Carbon dioxide.

# 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

# **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

## 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing

dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

## 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

# 6.4. Reference to other sections

For further information refer to section 13.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid

breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash

contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

Always wash hands after handling the product.

# 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

# 7.3. Specific end use(s)

No additional information available

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

## 8.1.1 National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

# 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

## Appropriate engineering controls:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

## Personal protective equipment symbol(s):







# 8.2.2.1. Eye and face protection

## Eye protection:

Safety glasses

## 8.2.2.2. Skin protection

# Skin and body protection:

Wear suitable protective clothing

# Hand protection:

Protective gloves

#### 8.2.2.3. Respiratory protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

# 8.2.2.4. Thermal hazards

No additional information available

# 8.2.3. Environmental exposure controls

## **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 : Not available
Odour : Not available
Odour threshold : Not available

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Melting point : Not applicable Freezing point : Not available Boiling point : Not available : Non flammable. Flammability Lower explosion limit Not available Upper explosion limit Not available Flash point Not available Auto-ignition temperature Not available Decomposition temperature : Not available рΗ : Not available Viscosity, kinematic : Not available Solubility Not available : Not available Partition coefficient n-octanol/water (Log Kow) Not available Vapour pressure Not available Vapour pressure at 50°C Density : Not available Relative density : Not available Relative vapour density at 20°C : Not available Particle characteristics : Not applicable

#### 9.2. Other information

## 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

## 10.2. Chemical stability

Stable under normal conditions.

# 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

# 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

# 10.5. Incompatible materials

No additional information available

# 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

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

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

# 2-methylisothiazol-3(2H)-one (2682-20-4)

LD50 oral rat 66 mg/kg Source: NCIS

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| 2-methylisothiazol-3(2H)-one (2682-20-4) |   |
|--|---|
|  |   |
| _D50 dermal rat                          | 141 mg/kg Source: NCIS  |
| C50 Inhalation - Rat (Dust/Mist)         | 0.33 mg/l Source: Toxic Substances Information Summary  |
| kin corrosion/irritation                 | Not classified  |
| 2-methylisothiazol-3(2H)-one (2682-20-4) |   |
| ρΗ                                       | 2.58 Temp.: 25 °C Concentration: 50 g/L   |
| erious eye damage/irritation             | Not classified  |
| 2-methylisothiazol-3(2H)-one (2682-20-4) |   |
| ρΗ                                       | 2.58 Temp.: 25 °C Concentration: 50 g/L   |
| espiratory or skin sensitisation         | May cause an allergic skin reaction.  |
| erm cell mutagenicity                    | Not classified  |
| arcinogenicity                           | Not classified  |
| eproductive toxicity                     | Not classified  |
| TOT-single exposure                      | Not classified  |
| TOT-repeated exposure                    | Not classified  |
| 2-methylisothiazol-3(2H)-one (2682-20-4) |   |
| OAEL (oral, rat, 90 days)                | 71.2 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents), Guideline: other: |
| STOT-repeated exposure                   | May cause damage to organs through prolonged or repeated exposure.  |
| spiration hazard                         | Not classified  |
| 2-methylisothiazol-3(2H)-one (2682-20-4) |   |
| /iscosity, kinematic                     | Not applicable  |

# 11.2. Information on other hazards

No additional information available

# **SECTION 12: Ecological information**

|   |   |   | - |    |    |     |
|---|---|---|---|----|----|-----|
| и | " | 1 |   | OV |    | ity |
|   |   |   |   |    | ıv | LLY |

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Hazardous to the aquatic environment, short–term

acute)

: Not classified

Hazardous to the aquatic environment, long-term

: Not classified

(chronic) Not rapidly degradable

| 2-methylisothiazol-3(2H)-one (2682-20-4 | <b>(</b> )   |
|---|--|
| LC50 - Fish [1]                         | 4.77 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |
| EC50 - Crustacea [1]                    | 1.6 mg/l Test organisms (species): Daphnia magna   |
| EC50 96h - Algae [1]                    | 0.445 mg/l Source: ECHA  |

# 12.2. Persistence and degradability

No additional information available

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

# 12.3. Bioaccumulative potential

# 2-methylisothiazol-3(2H)-one (2682-20-4)

Partition coefficient n-octanol/water (Log Pow) -0.71 Source: ECHA

## 12.4. Mobility in soil

No additional information available

# 12.5. Results of PBT and vPvB assessment

No additional information available

## 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

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

# **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR                                    | IMDG          | IATA          | ADN           | RID           |  |  |
|--|---------------|---------------|---------------|---------------|--|--|
| 14.1. UN number or ID number           |               |               |               |               |  |  |
| Not regulated for transport            |               |               |               |               |  |  |
| Not regulated                          | Not regulated | Not regulated | Not regulated | Not regulated |  |  |
| 14.2. UN proper shippin                | g name        |               |               |               |  |  |
| Not regulated                          | Not regulated | Not regulated | Not regulated | Not regulated |  |  |
| 14.3. Transport hazard of              | class(es)     |               |               |               |  |  |
| Not regulated                          | Not regulated | Not regulated | Not regulated | Not regulated |  |  |
| 14.4. Packing group                    |               |               |               |               |  |  |
| Not regulated                          | Not regulated | Not regulated | Not regulated | Not regulated |  |  |
| 14.5. Environmental hazards            |               |               |               |               |  |  |
| Not regulated                          | Not regulated | Not regulated | Not regulated | Not regulated |  |  |
| No supplementary information available |               |               |               |               |  |  |

# 14.6. Special precautions for user

# **Overland transport**

Not regulated

# Transport by sea

Not regulated

## Air transport

Not regulated

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

#### **Inland waterway transport**

Not regulated

#### Rail transport

Not regulated

# 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

#### **REACH Annex XVII (Restriction List)**

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

## **REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

#### **REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

#### **POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

## Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

#### **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### **Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

## 15.1.2. National regulations

#### Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG).

Observe restrictions according Act on the Protection of Young People in Employment

(JArbSchG).

Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1).

Storage class (LGK, TRGS 510) : LGK 12 - Non-combustible liquids.

Joint storage table GK 1 LGK 2A LGK 2B LGK 3 **LGK 4.1A** LGK 4.1B **LGK 4.2** LGK 4.3 **LGK 5.1A LGK 5.1B** LGK 5.1C **LGK 6.1A** LGK 6.1B LGK 6.1C LGK 5.2 LGK 6.1D GK 6.2 LGK 7 LGK 8A LGK 8B LGK 12 LGK 11 LGK 10 **LGK 13** LGK 10-13

Joint storage not permitted for : LGK 1, LGK 6.2, LGK 7.

Joint storage with restrictions permitted for : LGK 4.1A, LGK 4.3, LGK 5.1C.

Joint storage permitted for : LGK 2A, LGK 2B, LGK 3, LGK 4.1B, LGK 4.2, LGK 5.1A, LGK 5.1B, LGK 5.2, LGK 6.1A, LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, LGK 10, LGK 11, LGK 12, LGK 13, LGK

10-13.

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

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# 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

# **SECTION 16: Other information**

| Abbreviations and acr | onyms:  |
|-----------------------|---|
| 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             |
| ATE                   | Acute Toxicity Estimate   |
| BCF                   | Bioconcentration factor   |
| BLV                   | Biological limit value  |
| BOD                   | Biochemical oxygen demand (BOD)   |
| COD                   | Chemical oxygen demand (COD)  |
| DMEL                  | Derived Minimal Effect level  |
| DNEL                  | Derived-No Effect Level   |
| EC-No.                | European Community number   |
| EC50                  | Median effective concentration  |
| EN                    | European Standard   |
| IARC                  | International Agency for Research on Cancer   |
| IATA                  | International Air Transport Association   |
| IMDG                  | International Maritime Dangerous Goods  |
| LC50                  | Median lethal concentration   |
| LD50                  | Median lethal dose  |
| LOAEL                 | Lowest Observed Adverse Effect Level  |
| NOAEC                 | No-Observed Adverse Effect Concentration  |
| NOAEL                 | No-Observed Adverse Effect Level  |
| NOEC                  | No-Observed Effect Concentration  |
| OECD                  | Organisation for Economic Co-operation and Development  |
| OEL                   | Occupational Exposure Limit   |
| PBT                   | Persistent Bioaccumulative Toxic  |
| PNEC                  | Predicted No-Effect Concentration   |
| RID                   | Regulations concerning the International Carriage of Dangerous Goods by Rail                    |
| SDS                   | Safety Data Sheet   |
| STP                   | Sewage treatment plant  |
| ThOD                  | Theoretical oxygen demand (ThOD)  |
| TLM                   | Median Tolerance Limit  |
| VOC                   | Volatile Organic Compounds  |
| CAS-No.               | Chemical Abstract Service number  |
| N.O.S.                | Not Otherwise Specified   |
| vPvB                  | Very Persistent and Very Bioaccumulative  |
| ED                    | Endocrine disrupting properties   |

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| Full text of H- and EUH-statements: |  |  |  |
|-------------------------------------|--|--|--|
| Acute Tox. 2 (Dermal)               | Acute toxicity (dermal), Category 2                                |  |  |
| Acute Tox. 2 (Inhalation)           | Acute toxicity (inhal.), Category 2                                |  |  |
| Acute Tox. 2 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 2                   |  |  |
| 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  |  |  |
| EUH071                              | Corrosive to the respiratory tract.                                |  |  |
| Eye Dam. 1                          | Serious eye damage/eye irritation, Category 1                      |  |  |
| H301                                | Toxic if swallowed.  |  |  |
| H310                                | Fatal 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.  |  |  |
| H373                                | May cause damage to organs through prolonged or repeated exposure. |  |  |
| H400                                | Very toxic to aquatic life.  |  |  |
| H410                                | Very toxic to aquatic life with long lasting effects.              |  |  |
| Skin Corr. 1B                       | Skin corrosion/irritation, Category 1, Sub-Category 1B             |  |  |
| Skin Sens. 1A                       | Skin sensitisation, category 1A                                    |  |  |
| STOT RE 2                           | Specific target organ toxicity – Repeated exposure, Category 2     |  |  |

The classification complies with

: ATP 12

Safety Data Sheet (SDS), EU

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.

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 3/21/2022 Revision date: 7/3/2023 Supersedes version of: 4/13/2022 Version: 3.0

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

## 1.1. Product identifier

Product form : Mixture

Product name : MP Sample Diluent (PP02)

Product code : DIL
Product group : Blend

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

#### 1.2.1. Relevant identified uses

Main use category : Professional use

## 1.2.2. Uses advised against

No additional information available

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

Medipan GmbH GmbH Ludwig-Erhard-Ring, 3

DE- 15827 Blankenfelde-Mahlow OT Dahlewitz

Germany

T +49 33708 4417 0 - F +49 33708 4417 25

info@medipan.de - www.medipan.de

#### 1.4. Emergency telephone number

| Country | Organisation/Company   | Address                           | Emergency number | Comment |
|---------|--|-----------------------------------|------------------|---------|
| Germany | Giftnotruf der Charité -<br>Universitätsmedizin Berlin<br>CBF, Haus VIII (Wirtschaftgebäude), UG | Hindenburgdamm 30<br>12203 Berlin | +49 (0) 30 19240 |         |

# **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- and EUH-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

Contains

: 2-methylisothiazol-3(2H)-one

Hazard statements (CLP)

: H317 - May cause an allergic skin reaction.

Precautionary statements (CLP)

 $: \ \, \text{P261 - Avoid breathing dust/fume/gas/mist/vapours/spray}.$ 

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

protection.

P321 - Specific treatment (see supplemental first aid instruction on this label).

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P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse.

# 2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

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 at a concentration equal to or greater than 0,1 %

# **SECTION 3: Composition/information on ingredients**

# 3.1. Substances

Not applicable

## 3.2. Mixtures

| Name                         | Product identifier  | %    | Classification according to<br>Regulation (EC) No. 1272/2008<br>[CLP]  |
|------------------------------|---|------|--|
| 2-methylisothiazol-3(2H)-one | CAS-No.: 2682-20-4<br>EC-No.: 220-239-6<br>EC Index-No.: 613-326-00-9 | 0.02 | Acute Tox. 3 (Oral), H301 (ATE=66 mg/kg bodyweight) Acute Tox. 2 (Dermal), H310 (ATE=141 mg/kg bodyweight) Acute Tox. 2 (Inhalation), H330 (ATE=0.33 mg/l/4h) Acute Tox. 2 (Inhalation:dust,mist), H330 (ATE=0.33 mg/l/4h) Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071 |

| Specific concentration limits: |   |  |  |  |
|--------------------------------|---|--|--|--|
| Name                           | Product identifier  | Specific concentration limits (%)      |  |  |
| 2-methylisothiazol-3(2H)-one   | CAS-No.: 2682-20-4<br>EC-No.: 220-239-6<br>EC Index-No.: 613-326-00-9 | (0.0015 ≤ C ≤ 100) Skin Sens. 1A, H317 |  |  |

Full text of H- and EUH-statements: see section 16

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash

occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

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

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# 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 : Water spray. Dry powder. Foam. Carbon dioxide.

# 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

# **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

## 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing

dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

## 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

# 6.4. Reference to other sections

For further information refer to section 13.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid

breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash

contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

Always wash hands after handling the product.

# 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

# 7.3. Specific end use(s)

No additional information available

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## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

## 8.1.1 National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

# 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

## Appropriate engineering controls:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

## Personal protective equipment symbol(s):







# 8.2.2.1. Eye and face protection

## Eye protection:

Safety glasses

## 8.2.2.2. Skin protection

# Skin and body protection:

Wear suitable protective clothing

# Hand protection:

Protective gloves

#### 8.2.2.3. Respiratory protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

# 8.2.2.4. Thermal hazards

No additional information available

# 8.2.3. Environmental exposure controls

## **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 : Not available
Odour : Not available
Odour threshold : Not available

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Melting point : Not applicable Freezing point : Not available Boiling point : Not available : Not applicable Flammability Lower explosion limit : Not available Upper explosion limit : Not available Flash point Not available Auto-ignition temperature Not available Decomposition temperature : Not available рΗ : Not available Viscosity, kinematic : Not available Solubility Not available : Not available Partition coefficient n-octanol/water (Log Kow) Not available Vapour pressure Vapour pressure at 50°C Not available Density : Not available Relative density : Not available Relative vapour density at 20°C : Not available Particle characteristics : Not applicable

#### 9.2. Other information

## 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

## 10.2. Chemical stability

Stable under normal conditions.

# 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

# 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

# 10.5. Incompatible materials

No additional information available

# 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

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

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

# 2-methylisothiazol-3(2H)-one (2682-20-4)

LD50 oral rat 66 mg/kg Source: NCIS

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| Day Oral Toxicity Study in Rodents), Guideline: other:   |  |   |
|--|--|---|
| LC50 Inhalation - Rat (Dust/Mist)  0.33 mg/l Source: Toxic Substances Information Summary  Skin corrosion/irritation  2-methylisothiazol-3(2H)-one (2682-20-4)  pH  2.58 Temp.: 25 °C Concentration: 50 g/L  Serious eye damage/irritation  2-methylisothiazol-3(2H)-one (2682-20-4)  pH  2.58 Temp.: 25 °C Concentration: 50 g/L  Respiratory or skin sensitisation  Germ cell mutagenicity  Carcinogenicity  Reproductive toxicity  STOT-single exposure  STOT-repeated expo | 2-methylisothiazol-3(2H)-one (2682-20-4) |   |
| Skin corrosion/irritation : Not classified  2-methylisothiazol-3(2H)-one (2682-20-4)  pH   | LD50 dermal rat                          | 141 mg/kg Source: NCIS  |
| 2-methylisothiazol-3(2H)-one (2682-20-4)  pH   | LC50 Inhalation - Rat (Dust/Mist)        | 0.33 mg/l Source: Toxic Substances Information Summary  |
| pH 2.58 Temp.: 25 °C Concentration: 50 g/L  Serious eye damage/irritation : Not classified  2-methylisothiazol-3(2H)-one (2682-20-4)  pH 2.58 Temp.: 25 °C Concentration: 50 g/L  Respiratory or skin sensitisation : May cause an allergic skin reaction.  Germ cell mutagenicity : Not classified  Carcinogenicity : Not classified  Reproductive toxicity : Not classified  STOT-single exposure : Not classified  STOT-repeated exposure : Not classified  2-methylisothiazol-3(2H)-one (2682-20-4)  LOAEL (oral, rat, 90 days)  71.2 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose Day Oral Toxicity Study in Rodents), Guideline: other:  | Skin corrosion/irritation :              | Not classified  |
| Serious eye damage/irritation : Not classified  2-methylisothiazol-3(2H)-one (2682-20-4)  pH   | 2-methylisothiazol-3(2H)-one (2682-20-4) |   |
| 2-methylisothiazol-3(2H)-one (2682-20-4)  pH  2.58 Temp.: 25 °C Concentration: 50 g/L  Respiratory or skin sensitisation  Germ cell mutagenicity  Carcinogenicity  Reproductive toxicity  STOT-single exposure  STOT-repeated exposure  2-methylisothiazol-3(2H)-one (2682-20-4)  LOAEL (oral, rat, 90 days)  2.58 Temp.: 25 °C Concentration: 50 g/L  Not classified  Not classified  Not classified  Not classified  Toxicity Study in Rodents), Guideline: OECD Guideline 407 (Repeated Dose Day Oral Toxicity Study in Rodents), Guideline: other:   | рН                                       | 2.58 Temp.: 25 °C Concentration: 50 g/L   |
| pH 2.58 Temp.: 25 °C Concentration: 50 g/L  Respiratory or skin sensitisation : May cause an allergic skin reaction.  Germ cell mutagenicity : Not classified  Carcinogenicity : Not classified  Reproductive toxicity : Not classified  STOT-single exposure : Not classified  STOT-repeated exposure : Not classified  2-methylisothiazol-3(2H)-one (2682-20-4)  LOAEL (oral, rat, 90 days) 71.2 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose Day Oral Toxicity Study in Rodents), Guideline: other:   | Serious eye damage/irritation :          | Not classified  |
| Respiratory or skin sensitisation : May cause an allergic skin reaction.  Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified STOT-repeated exposure : Not classified  2-methylisothiazol-3(2H)-one (2682-20-4)  LOAEL (oral, rat, 90 days)  71.2 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose Day Oral Toxicity Study in Rodents), Guideline: other:  | 2-methylisothiazol-3(2H)-one (2682-20-4) |   |
| Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified STOT-repeated exposure : Not classified  2-methylisothiazol-3(2H)-one (2682-20-4)  LOAEL (oral, rat, 90 days)  71.2 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose Day Oral Toxicity Study in Rodents), Guideline: other:  | рН                                       | 2.58 Temp.: 25 °C Concentration: 50 g/L   |
| Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified  2-methylisothiazol-3(2H)-one (2682-20-4)  LOAEL (oral, rat, 90 days)  71.2 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose Day Oral Toxicity Study in Rodents), Guideline: other:  | Respiratory or skin sensitisation :      | May cause an allergic skin reaction.  |
| Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified  2-methylisothiazol-3(2H)-one (2682-20-4)  LOAEL (oral, rat, 90 days)  71.2 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose Day Oral Toxicity Study in Rodents), Guideline: other:   | Germ cell mutagenicity :                 | Not classified  |
| STOT-single exposure : Not classified STOT-repeated exposure : Not classified  2-methylisothiazol-3(2H)-one (2682-20-4)  LOAEL (oral, rat, 90 days)  | Carcinogenicity :                        | Not classified  |
| STOT-repeated exposure : Not classified  2-methylisothiazol-3(2H)-one (2682-20-4)  LOAEL (oral, rat, 90 days)  71.2 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose Day Oral Toxicity Study in Rodents), Guideline: other:  | Reproductive toxicity :                  | Not classified  |
| 2-methylisothiazol-3(2H)-one (2682-20-4)  LOAEL (oral, rat, 90 days)  71.2 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose Day Oral Toxicity Study in Rodents), Guideline: other:   | STOT-single exposure :                   | Not classified  |
| LOAEL (oral, rat, 90 days)  71.2 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose Day Oral Toxicity Study in Rodents), Guideline: other:   | STOT-repeated exposure :                 | Not classified  |
| Day Oral Toxicity Study in Rodents), Guideline: other:   | 2-methylisothiazol-3(2H)-one (2682-20-4) |   |
| STOT-repeated exposure  May cause damage to organs through prolonged or repeated exposure  | LOAEL (oral, rat, 90 days)               | 71.2 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents), Guideline: other: |
| and states and an expectation of the states and an expectation of  | STOT-repeated exposure                   | May cause damage to organs through prolonged or repeated exposure.  |
| Aspiration hazard : Not classified   | Aspiration hazard :                      | Not classified  |
| 2-methylisothiazol-3(2H)-one (2682-20-4)   | 2-methylisothiazol-3(2H)-one (2682-20-4) |   |
| Viscosity, kinematic Not applicable  | Viscosity, kinematic                     | Not applicable  |

# 11.2. Information on other hazards

No additional information available

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Hazardous to the aquatic environment, short–term

acute)

: Not classified

Hazardous to the aquatic environment, long-term

: Not classified

(chronic)

Not rapidly degradable

| 2-methylisothiazol-3(2H)-one (2682-20-4) |  |  |  |
|--|--|--|--|
| LC50 - Fish [1]                          | 4.77 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |  |  |
| EC50 - Crustacea [1]                     | 1.6 mg/l Test organisms (species): Daphnia magna   |  |  |
| EC50 96h - Algae [1]                     | 0.445 mg/l Source: ECHA  |  |  |

# 12.2. Persistence and degradability

No additional information available

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

# 12.3. Bioaccumulative potential

# 2-methylisothiazol-3(2H)-one (2682-20-4)

Partition coefficient n-octanol/water (Log Pow) -0.71 Source: ECHA

## 12.4. Mobility in soil

No additional information available

# 12.5. Results of PBT and vPvB assessment

No additional information available

## 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

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

# **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR   | IMDG                         | IATA          | ADN           | RID           |  |  |
|---|------------------------------|---------------|---------------|---------------|--|--|
| 14.1. UN number or ID n   | 14.1. UN number or ID number |               |               |               |  |  |
| Not regulated for transport   |                              |               |               |               |  |  |
| Not regulated   | Not regulated                | Not regulated | Not regulated | Not regulated |  |  |
| 14.2. UN proper shippin   | g name                       |               |               |               |  |  |
| Not regulated   | Not regulated                | Not regulated | Not regulated | Not regulated |  |  |
| 14.3. Transport hazard class(es)                                      |                              |               |               |               |  |  |
| Not regulated Not regulated Not regulated Not regulated Not regulated |                              |               |               |               |  |  |
| 14.4. Packing group   |                              |               |               |               |  |  |
| Not regulated   | Not regulated                | Not regulated | Not regulated | Not regulated |  |  |
| 14.5. Environmental hazards   |                              |               |               |               |  |  |
| Not regulated   | Not regulated                | Not regulated | Not regulated | Not regulated |  |  |
| No supplementary information available                                |                              |               |               |               |  |  |

# 14.6. Special precautions for user

# **Overland transport**

Not regulated

# Transport by sea

Not regulated

## Air transport

Not regulated

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

#### **Inland waterway transport**

Not regulated

#### Rail transport

Not regulated

# 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

#### **REACH Annex XVII (Restriction List)**

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

## **REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

#### **REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

#### **POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

## Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

#### **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### **Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

# 15.1.2. National regulations

#### Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG).

Observe restrictions according Act on the Protection of Young People in Employment

(JArbSchG).

Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1).

Storage class (LGK, TRGS 510) : LGK 12 - Non-combustible liquids.

Joint storage table : LGK 12 - Non-combustible liquids.

GK 1 LGK 2A LGK 2B LGK 3 **LGK 4.1A** LGK 4.1B **LGK 4.2** LGK 4.3 **LGK 5.1A LGK 5.1B** LGK 5.1C **LGK 6.1A LGK 6.1B** LGK 6.1C LGK 5.2 LGK 6.1D GK 6.2 LGK 7 LGK 8A LGK 8B LGK 12 **LGK 11 LGK 10 LGK 13** LGK 10-13

Joint storage not permitted for

Joint storage with restrictions permitted for

Joint storage permitted for

: LGK 1, LGK 6.2, LGK 7.

: LGK 4.1A, LGK 4.3, LGK 5.1C.

: LGK 2A, LGK 2B, LGK 3, LGK 4.1B, LGK 4.2, LGK 5.1A, LGK 5.1B, LGK 5.2, LGK 6.1A, LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, LGK 10, LGK 11, LGK 12, LGK 13, LGK

10-13.

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

# 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

# **SECTION 16: Other information**

| Abbreviations and acr | onyms:  |
|-----------------------|---|
| 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             |
| ATE                   | Acute Toxicity Estimate   |
| BCF                   | Bioconcentration factor   |
| BLV                   | Biological limit value  |
| BOD                   | Biochemical oxygen demand (BOD)   |
| COD                   | Chemical oxygen demand (COD)  |
| DMEL                  | Derived Minimal Effect level  |
| DNEL                  | Derived-No Effect Level   |
| EC-No.                | European Community number   |
| EC50                  | Median effective concentration  |
| EN                    | European Standard   |
| IARC                  | International Agency for Research on Cancer   |
| IATA                  | International Air Transport Association   |
| IMDG                  | International Maritime Dangerous Goods  |
| LC50                  | Median lethal concentration   |
| LD50                  | Median lethal dose  |
| LOAEL                 | Lowest Observed Adverse Effect Level  |
| NOAEC                 | No-Observed Adverse Effect Concentration  |
| NOAEL                 | No-Observed Adverse Effect Level  |
| NOEC                  | No-Observed Effect Concentration  |
| OECD                  | Organisation for Economic Co-operation and Development  |
| OEL                   | Occupational Exposure Limit   |
| PBT                   | Persistent Bioaccumulative Toxic  |
| PNEC                  | Predicted No-Effect Concentration   |
| RID                   | Regulations concerning the International Carriage of Dangerous Goods by Rail                    |
| SDS                   | Safety Data Sheet   |
| STP                   | Sewage treatment plant  |
| ThOD                  | Theoretical oxygen demand (ThOD)  |
| TLM                   | Median Tolerance Limit  |
| VOC                   | Volatile Organic Compounds  |
| CAS-No.               | Chemical Abstract Service number  |
| N.O.S.                | Not Otherwise Specified   |
| vPvB                  | Very Persistent and Very Bioaccumulative  |
| ED                    | Endocrine disrupting properties   |

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| Full text of H- and EUH-statements: |  |  |  |
|-------------------------------------|--|--|--|
| Acute Tox. 2 (Dermal)               | Acute toxicity (dermal), Category 2                                |  |  |
| Acute Tox. 2 (Inhalation)           | Acute toxicity (inhal.), Category 2                                |  |  |
| Acute Tox. 2 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 2                   |  |  |
| 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  |  |  |
| EUH071                              | Corrosive to the respiratory tract.                                |  |  |
| Eye Dam. 1                          | Serious eye damage/eye irritation, Category 1                      |  |  |
| H301                                | Toxic if swallowed.  |  |  |
| H310                                | Fatal 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.  |  |  |
| H373                                | May cause damage to organs through prolonged or repeated exposure. |  |  |
| H400                                | Very toxic to aquatic life.  |  |  |
| H410                                | Very toxic to aquatic life with long lasting effects.              |  |  |
| Skin Corr. 1B                       | Skin corrosion/irritation, Category 1, Sub-Category 1B             |  |  |
| Skin Sens. 1A                       | Skin sensitisation, category 1A                                    |  |  |
| STOT RE 2                           | Specific target organ toxicity – Repeated exposure, Category 2     |  |  |

The classification complies with

: ATP 12

Safety Data Sheet (SDS), EU

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.



# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 3/21/2022 Revision date: 7/3/2023 Supersedes version of: 6/1/2022 Version: 3.0

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

## 1.1. Product identifier

Product form : Mixture

Product name : MP Wash Buffer (WP01 10x)

Product code : WASHB
Product group : Blend

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

#### 1.2.1. Relevant identified uses

Main use category : Professional use

## 1.2.2. Uses advised against

No additional information available

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

Medipan GmbH GmbH Ludwig-Erhard-Ring, 3

DE- 15827 Blankenfelde-Mahlow OT Dahlewitz

Germany

T +49 33708 4417 0 - F +49 33708 4417 25

info@medipan.de - www.medipan.de

#### 1.4. Emergency telephone number

| Country | Organisation/Company   | Address                           | Emergency number | Comment |
|---------|--|-----------------------------------|------------------|---------|
| Germany | Giftnotruf der Charité -<br>Universitätsmedizin Berlin<br>CBF, Haus VIII (Wirtschaftgebäude), UG | Hindenburgdamm 30<br>12203 Berlin | +49 (0) 30 19240 |         |

# **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- and EUH-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

Contains

: 2-methylisothiazol-3(2H)-one

Hazard statements (CLP)

: H317 - May cause an allergic skin reaction.

Precautionary statements (CLP)

 $: \ \, \text{P261 - Avoid breathing dust/fume/gas/mist/vapours/spray}.$ 

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

protection.

P321 - Specific treatment (see supplemental first aid instruction on this label).

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse.

# 2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

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 at a concentration equal to or greater than 0,1 %

# **SECTION 3: Composition/information on ingredients**

# 3.1. Substances

Not applicable

## 3.2. Mixtures

| Name                         | Product identifier  | %      | Classification according to<br>Regulation (EC) No. 1272/2008<br>[CLP]  |
|------------------------------|---|--------|--|
| 2-methylisothiazol-3(2H)-one | CAS-No.: 2682-20-4<br>EC-No.: 220-239-6<br>EC Index-No.: 613-326-00-9 | 0.0499 | Acute Tox. 3 (Oral), H301 (ATE=66 mg/kg bodyweight) Acute Tox. 2 (Dermal), H310 (ATE=141 mg/kg bodyweight) Acute Tox. 2 (Inhalation), H330 (ATE=0.33 mg/l/4h) Acute Tox. 2 (Inhalation:dust,mist), H330 (ATE=0.33 mg/l/4h) Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071 |

| Specific concentration limits: |   |  |  |
|--------------------------------|---|--|--|
| Name                           | Product identifier  | Specific concentration limits (%)      |  |
| 2-methylisothiazol-3(2H)-one   | CAS-No.: 2682-20-4<br>EC-No.: 220-239-6<br>EC Index-No.: 613-326-00-9 | (0.0015 ≤ C ≤ 100) Skin Sens. 1A, H317 |  |

Full text of H- and EUH-statements: see section 16

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash

occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

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

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# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

# 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 : Water spray. Dry powder. Foam. Carbon dioxide.

# 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

# **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

## 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing

dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

## 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

# 6.4. Reference to other sections

For further information refer to section 13.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid

breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash

contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

Always wash hands after handling the product.

# 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

# 7.3. Specific end use(s)

No additional information available

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

## 8.1.1 National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

# 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

## Appropriate engineering controls:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

## Personal protective equipment symbol(s):







# 8.2.2.1. Eye and face protection

# Eye protection:

Safety glasses

## 8.2.2.2. Skin protection

## Skin and body protection:

Wear suitable protective clothing

# Hand protection:

Protective gloves

#### 8.2.2.3. Respiratory protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

# 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

## **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 : Not available
Odour : Not available
Odour threshold : Not available

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Melting point : Not applicable Freezing point : Not available Boiling point : Not available : Not applicable Flammability Lower explosion limit : Not available Upper explosion limit : Not available Flash point Not available Auto-ignition temperature Not available Decomposition temperature : Not available рΗ : Not available : Not available Viscosity, kinematic Solubility Not available : Not available Partition coefficient n-octanol/water (Log Kow) Not available Vapour pressure Vapour pressure at 50°C Not available Density : Not available Relative density : Not available Relative vapour density at 20°C : Not available Particle characteristics : Not applicable

## 9.2. Other information

## 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

## 10.2. Chemical stability

Stable under normal conditions.

# 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

# 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

# 10.5. Incompatible materials

No additional information available

# 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

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

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

# 2-methylisothiazol-3(2H)-one (2682-20-4)

LD50 oral rat 66 mg/kg Source: NCIS

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| 2-methylisothiazol-3(2H)-one (2682-20-4) |   |
|--|---|
| LD50 dermal rat                          | 141 mg/kg Source: NCIS  |
| LC50 Inhalation - Rat (Dust/Mist)        | 0.33 mg/l Source: Toxic Substances Information Summary  |
| Skin corrosion/irritation :              | Not classified  |
| 2-methylisothiazol-3(2H)-one (2682-20-4) |   |
| рН                                       | 2.58 Temp.: 25 °C Concentration: 50 g/L   |
| Serious eye damage/irritation :          | Not classified  |
| 2-methylisothiazol-3(2H)-one (2682-20-4) |   |
| рН                                       | 2.58 Temp.: 25 °C Concentration: 50 g/L   |
| Respiratory or skin sensitisation :      | May cause an allergic skin reaction.  |
| Germ cell mutagenicity :                 | Not classified  |
| Carcinogenicity :                        | Not classified  |
| Reproductive toxicity                    | Not classified  |
| STOT-single exposure                     | Not classified  |
| STOT-repeated exposure                   | Not classified  |
| 2-methylisothiazol-3(2H)-one (2682-20-4) |   |
| LOAEL (oral, rat, 90 days)               | 71.2 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents), Guideline: other: |
| STOT-repeated exposure                   | May cause damage to organs through prolonged or repeated exposure.  |
| Aspiration hazard :                      | Not classified  |
| 2-methylisothiazol-3(2H)-one (2682-20-4) |   |
| Viscosity, kinematic                     | Not applicable  |

# 11.2. Information on other hazards

No additional information available

# **SECTION 12: Ecological information**

| 1 | 2 | 1. | т | ОХ       | ic | itv | v |
|---|---|----|---|----------|----|-----|---|
|   |   | _  |   | <u> </u> |    |     | , |

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Hazardous to the aquatic environment, short–term

acute)

: Not classified

Hazardous to the aquatic environment, long-term

: Not classified

(chronic) Not rapidly degradable

| 2-methylisothiazol-3(2H)-one (2682-20-4) |  |  |
|--|--|--|
| LC50 - Fish [1]                          | 4.77 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |  |
| EC50 - Crustacea [1]                     | 1.6 mg/l Test organisms (species): Daphnia magna   |  |
| EC50 96h - Algae [1]                     | 0.445 mg/l Source: ECHA  |  |

# 12.2. Persistence and degradability

No additional information available

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

# 12.3. Bioaccumulative potential

# 2-methylisothiazol-3(2H)-one (2682-20-4)

Partition coefficient n-octanol/water (Log Pow) -0.71 Source: ECHA

## 12.4. Mobility in soil

No additional information available

# 12.5. Results of PBT and vPvB assessment

No additional information available

## 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

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

# **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR                                    | IMDG          | IATA          | ADN           | RID           |  |  |
|--|---------------|---------------|---------------|---------------|--|--|
| 14.1. UN number or ID number           |               |               |               |               |  |  |
| Not regulated for transport            |               |               |               |               |  |  |
| Not regulated                          | Not regulated | Not regulated | Not regulated | Not regulated |  |  |
| 14.2. UN proper shipping name          |               |               |               |               |  |  |
| Not regulated                          | Not regulated | Not regulated | Not regulated | Not regulated |  |  |
| 14.3. Transport hazard class(es)       |               |               |               |               |  |  |
| Not regulated                          | Not regulated | Not regulated | Not regulated | Not regulated |  |  |
| 14.4. Packing group                    |               |               |               |               |  |  |
| Not regulated                          | Not regulated | Not regulated | Not regulated | Not regulated |  |  |
| 14.5. Environmental hazards            |               |               |               |               |  |  |
| Not regulated                          | Not regulated | Not regulated | Not regulated | Not regulated |  |  |
| No supplementary information available |               |               |               |               |  |  |

# 14.6. Special precautions for user

# **Overland transport**

Not regulated

# Transport by sea

Not regulated

## Air transport

Not regulated

# MP Wash Buffer (WP01 10x)

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

#### **Inland waterway transport**

Not regulated

#### Rail transport

Not regulated

#### 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

#### **REACH Annex XVII (Restriction List)**

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

#### **REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

#### **REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

#### **POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

#### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

# **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### **Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

#### Germany

Joint storage table

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG).

Observe restrictions according Act on the Protection of Young People in Employment

(JArbSchG).

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1).

Storage class (LGK, TRGS 510) : LGK 12 - Non-combustible liquids.

GK 1 LGK 2A LGK 2B LGK 3 **LGK 4.1A** LGK 4.1B **LGK 4.2** LGK 4.3 **LGK 5.1A LGK 5.1B** LGK 5.1C LGK 5.2 **LGK 6.1A** LGK 6.1B LGK 6.1C LGK 6.1D GK 6.2 LGK 7 LGK 8A LGK 8B LGK 12 LGK 11 LGK 10 **LGK 13** LGK 10-13

Joint storage not permitted for

Joint storage with restrictions permitted for

Joint storage permitted for

: LGK 4.1A, LGK 4.3, LGK 5.1C.

: LGK 1, LGK 6.2, LGK 7.

: LGK 2A, LGK 2B, LGK 3, LGK 4.1B, LGK 4.2, LGK 5.1A, LGK 5.1B, LGK 5.2, LGK 6.1A, LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, LGK 10, LGK 11, LGK 12, LGK 13, LGK

10-13.

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

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# MP Wash Buffer (WP01 10x)

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

# 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

# **SECTION 16: Other information**

| Abbreviations and acr | onyms:  |
|-----------------------|---|
| 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             |
| ATE                   | Acute Toxicity Estimate   |
| BCF                   | Bioconcentration factor   |
| BLV                   | Biological limit value  |
| BOD                   | Biochemical oxygen demand (BOD)   |
| COD                   | Chemical oxygen demand (COD)  |
| DMEL                  | Derived Minimal Effect level  |
| DNEL                  | Derived-No Effect Level   |
| EC-No.                | European Community number   |
| EC50                  | Median effective concentration  |
| EN                    | European Standard   |
| IARC                  | International Agency for Research on Cancer   |
| IATA                  | International Air Transport Association   |
| IMDG                  | International Maritime Dangerous Goods  |
| LC50                  | Median lethal concentration   |
| LD50                  | Median lethal dose  |
| LOAEL                 | Lowest Observed Adverse Effect Level  |
| NOAEC                 | No-Observed Adverse Effect Concentration  |
| NOAEL                 | No-Observed Adverse Effect Level  |
| NOEC                  | No-Observed Effect Concentration  |
| OECD                  | Organisation for Economic Co-operation and Development  |
| OEL                   | Occupational Exposure Limit   |
| PBT                   | Persistent Bioaccumulative Toxic  |
| PNEC                  | Predicted No-Effect Concentration   |
| RID                   | Regulations concerning the International Carriage of Dangerous Goods by Rail                    |
| SDS                   | Safety Data Sheet   |
| STP                   | Sewage treatment plant  |
| ThOD                  | Theoretical oxygen demand (ThOD)  |
| TLM                   | Median Tolerance Limit  |
| VOC                   | Volatile Organic Compounds  |
| CAS-No.               | Chemical Abstract Service number  |
| N.O.S.                | Not Otherwise Specified   |
| vPvB                  | Very Persistent and Very Bioaccumulative  |
| ED                    | Endocrine disrupting properties   |

# MP Wash Buffer (WP01 10x)

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Full text of H- and EUH-statements: |  |  |
|-------------------------------------|--|--|
| Acute Tox. 2 (Dermal)               | Acute toxicity (dermal), Category 2                                |  |
| Acute Tox. 2 (Inhalation)           | Acute toxicity (inhal.), Category 2                                |  |
| Acute Tox. 2 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 2                   |  |
| 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  |  |
| EUH071                              | Corrosive to the respiratory tract.                                |  |
| Eye Dam. 1                          | Serious eye damage/eye irritation, Category 1                      |  |
| H301                                | Toxic if swallowed.  |  |
| H310                                | Fatal 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.  |  |
| H373                                | May cause damage to organs through prolonged or repeated exposure. |  |
| H400                                | Very toxic to aquatic life.  |  |
| H410                                | Very toxic to aquatic life with long lasting effects.              |  |
| Skin Corr. 1B                       | Skin corrosion/irritation, Category 1, Sub-Category 1B             |  |
| Skin Sens. 1A                       | Skin sensitisation, category 1A                                    |  |
| STOT RE 2                           | Specific target organ toxicity – Repeated exposure, Category 2     |  |

The classification complies with

: ATP 12

Safety Data Sheet (SDS), EU

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.



# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 3/21/2022 Revision date: 7/3/2023 Supersedes version of: 4/13/2022 Version: 3.0

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

#### 1.1. Product identifier

Product form : Mixture

Product name : MP Conjugate (KP01)

Product code : CONJ
Product group : Blend

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

#### 1.2.1. Relevant identified uses

Main use category : Professional use

#### 1.2.2. Uses advised against

No additional information available

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

Medipan GmbH GmbH Ludwig-Erhard-Ring, 3

DE- 15827 Blankenfelde-Mahlow OT Dahlewitz

Germany

T +49 33708 4417 0 - F +49 33708 4417 25

info@medipan.de - www.medipan.de

#### 1.4. Emergency telephone number

| Country | Organisation/Company   | Address                           | Emergency number | Comment |
|---------|--|-----------------------------------|------------------|---------|
| Germany | Giftnotruf der Charité -<br>Universitätsmedizin Berlin<br>CBF, Haus VIII (Wirtschaftgebäude), UG | Hindenburgdamm 30<br>12203 Berlin | +49 (0) 30 19240 |         |

# **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- and EUH-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

Contains

: 2-methylisothiazol-3(2H)-one; reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and

2-methyl-2H-isothiazol-3-one (3:1)

Hazard statements (CLP)

: H317 - May cause an allergic skin reaction.: P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

Precautionary statements (CLP)

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

rotection.

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P321 - Specific treatment (see supplemental first aid instruction on this label). P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse.

# 2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

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 at a concentration equal to or greater than 0,1 %

# **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-methylisothiazol-3(2H)-one  | CAS-No.: 2682-20-4<br>EC-No.: 220-239-6<br>EC Index-No.: 613-326-00-9 | 0.0605 | Acute Tox. 3 (Oral), H301 (ATE=66 mg/kg bodyweight) Acute Tox. 2 (Dermal), H310 (ATE=141 mg/kg bodyweight) Acute Tox. 2 (Inhalation), H330 (ATE=0.33 mg/l/4h) Acute Tox. 2 (Inhalation:dust,mist), H330 (ATE=0.33 mg/l/4h) Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071 |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | CAS-No.: 55965-84-9<br>EC Index-No.: 613-167-00-5                     | 0.05   | Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight) Acute Tox. 2 (Dermal), H310 (ATE=50 mg/kg bodyweight) Acute Tox. 2 (Inhalation), H330 (ATE=0.05 mg/l/4h) Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071  |

| Specific concentration limits: |   |  |
|--------------------------------|---|--|
| Name                           | Product identifier  | Specific concentration limits (%)      |
| 2-methylisothiazol-3(2H)-one   | CAS-No.: 2682-20-4<br>EC-No.: 220-239-6<br>EC Index-No.: 613-326-00-9 | (0.0015 ≤ C ≤ 100) Skin Sens. 1A, H317 |

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Specific concentration limits:  |   |  |  |
|---|---|--|--|
| Name  | Product identifier                                | Specific concentration limits (%)  |  |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | CAS-No.: 55965-84-9<br>EC Index-No.: 613-167-00-5 | $(0.0015 \le C \le 100)$ Skin Sens. 1A, H317<br>$(0.06 \le C < 0.6)$ Skin Irrit. 2, H315<br>$(0.06 \le C < 0.6)$ Eye Irrit. 2, H319<br>$(0.6 \le C \le 100)$ Skin Corr. 1C, H314<br>$(0.6 \le C \le 100)$ Eye Dam. 1, H318 |  |

Full text of H- and EUH-statements: see section 16

### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash

occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

### 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 : Water spray. Dry powder. Foam. Carbon dioxide.

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

Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

# **SECTION 6: Accidental release measures**

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing

dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

# 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

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#### 6.4. Reference to other sections

For further information refer to section 13.

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid

breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash

contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

Always wash hands after handling the product.

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

Storage conditions : Store in a well-ventilated place. Keep cool.

# 7.3. Specific end use(s)

No additional information available

# SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

# 8.1.1 National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

# 8.1.4. DNEL and PNEC

No additional information available

### 8.1.5. Control banding

No additional information available

#### 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

# 8.2.2. Personal protection equipment

#### Personal protective equipment symbol(s):







#### 8.2.2.1. Eye and face protection

### Eye protection:

Safety glasses

#### 8.2.2.2. Skin protection

#### Skin and body protection:

Wear suitable protective clothing

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

#### Hand protection:

Protective gloves

### 8.2.2.3. Respiratory protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

#### **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 : Not available Colour Odour : Not available Odour threshold : Not available Melting point : Not applicable : Not available Freezing point Boiling point : Not available : Not applicable Flammability Lower explosion limit : Not available Upper explosion limit : Not available : Not available Flash point Auto-ignition temperature : Not available Decomposition temperature : Not available : Not available рΗ Viscosity, kinematic : Not available Solubility : Not available Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available : Not available Vapour pressure at 50°C : Not available Density : Not available Relative density : Not available Relative vapour density at 20°C Particle characteristics : Not applicable

# 9.2. Other information

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

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

# 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

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#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

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

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

| 2-methylisothiazol-3(2H)-one (2682-20-4) |  |  |
|--|--|--|
| LD50 oral rat                            | 66 mg/kg Source: NCIS                                  |  |
| LD50 dermal rat                          | 141 mg/kg Source: NCIS                                 |  |
| LC50 Inhalation - Rat (Dust/Mist)        | 0.33 mg/l Source: Toxic Substances Information Summary |  |

### reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)

LD50 dermal rat > 1008 mg/kg bodyweight Animal: rat, Guideline: EPA OPP 81-2 (Acute Dermal Toxicity),
Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation : Not classified

pH 2.58 Temp.: 25 °C Concentration: 50 g/L

# reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)

pH 3.43 Temp.: 20 °C Concentration: 10 g/L

Serious eye damage/irritation : Not classified

# 2-methylisothiazol-3(2H)-one (2682-20-4)

pH 2.58 Temp.: 25 °C Concentration: 50 g/L

# reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)

pH 3.43 Temp.: 20 °C Concentration: 10 g/L

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

Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified

# 2-methylisothiazol-3(2H)-one (2682-20-4)

| LOAEL (oral, rat, 90 days) | 71.2 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28- |
|----------------------------|---|
|                            | Day Oral Toxicity Study in Rodents), Guideline: other:                              |

STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.

# reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)

LOAEL (dermal, rat/rabbit, 90 days)

0.525 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EPA OPP 82-3
(Subchronic Dermal Toxicity 90 Days)

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| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9) |                |  |
|--|----------------|--|
| STOT-repeated exposure Causes damage to organs through prolonged or repeated exposure.                     |                |  |
| Aspiration hazard : Not classified   |                |  |
| 2-methylisothiazol-3(2H)-one (2682-20-4)   |                |  |
| Viscosity, kinematic   | Not applicable |  |

### 11.2. Information on other hazards

No additional information available

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

: Not classified

Hazardous to the aquatic environment, short-term

acute)

Hazardous to the aquatic environment, long-term : Not classified

(chronic)

Not rapidly degradable

| Not rapidly degradable   |  |  |
|--|--|--|
| 2-methylisothiazol-3(2H)-one (2682-20-4)   |  |  |
| LC50 - Fish [1]  | 4.77 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)                   |  |
| EC50 - Crustacea [1]   | 1.6 mg/l Test organisms (species): Daphnia magna   |  |
| EC50 96h - Algae [1]   | 0.445 mg/l Source: ECHA  |  |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9) |  |  |
| LC50 - Fish [1]  | 0.19 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)                   |  |
| LC50 - Fish [2]  | 0.28 mg/l Test organisms (species): Lepomis macrochirus  |  |
| EC50 - Crustacea [1]   | 0.16 mg/l Test organisms (species): Daphnia magna  |  |
| NOEC (chronic)   | 0.1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'  |  |
| NOEC chronic fish  | 0.098 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '28 d' |  |

# 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

| 2-methylisothiazol-3(2H)-one (2682-20-4)        |                    |
|---|--------------------|
| Partition coefficient n-octanol/water (Log Pow) | -0.71 Source: ECHA |

### 12.4. Mobility in soil

No additional information available

# 12.5. Results of PBT and vPvB assessment

No additional information available

# 12.6. Endocrine disrupting properties

No additional information available

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

# 12.7. Other adverse effects

No additional information available

# **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

# **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR                                    | IMDG                         | IATA          | ADN           | RID           |  |  |
|--|------------------------------|---------------|---------------|---------------|--|--|
| 14.1. UN number or ID n                | 14.1. UN number or ID number |               |               |               |  |  |
| Not regulated for transport            |                              |               |               |               |  |  |
| Not regulated                          | Not regulated                | Not regulated | Not regulated | Not regulated |  |  |
| 14.2. UN proper shippin                | g name                       |               |               |               |  |  |
| Not regulated                          | Not regulated                | Not regulated | Not regulated | Not regulated |  |  |
| 14.3. Transport hazard                 | class(es)                    |               |               |               |  |  |
| Not regulated                          | Not regulated                | Not regulated | Not regulated | Not regulated |  |  |
| 14.4. Packing group                    | 14.4. Packing group          |               |               |               |  |  |
| Not regulated                          | Not regulated                | Not regulated | Not regulated | Not regulated |  |  |
| 14.5. Environmental hazards            |                              |               |               |               |  |  |
| Not regulated                          | Not regulated                | Not regulated | Not regulated | Not regulated |  |  |
| No supplementary information available |                              |               |               |               |  |  |

# 14.6. Special precautions for user

# **Overland transport**

Not regulated

#### Transport by sea

Not regulated

# Air transport

Not regulated

#### Inland waterway transport

Not regulated

#### Rail transport

Not regulated

# 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

# Safety Data Sheet

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#### **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

#### **REACH Annex XVII (Restriction List)**

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

#### **REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

#### **REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

#### **POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

#### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

(JArbSchG).

GK 1

LGK 4.1B

LGK 5.1C

#### **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### **Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

#### Germany

Employment restrictions

Water hazard class (WGK) Storage class (LGK, TRGS 510) Joint storage table

Joint storage not permitted for Joint storage with restrictions permitted for Joint storage permitted for LGK 6.1D LGK 6.2

LGK 12 - Non-combustible liquids.

LGK 2A

LGK 4.2

LGK 5.2

: LGK 1, LGK 6.2, LGK 7. : LGK 4.1A, LGK 4.3, LGK 5.1C.

LGK 2A, LGK 2B, LGK 3, LGK 4.1B, LGK 4.2, LGK 5.1A, LGK 5.1B, LGK 5.2, LGK 6.1A, LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, LGK 10, LGK 11, LGK 12, LGK 13, LGK 10-13.

LGK 3

**LGK 5.1A** 

LGK 6.1B

LGK 8A

**LGK 13** 

**LGK 4.1A** 

LGK 5.1B

LGK 6.1C

LGK 10-13

LGK 8B

Observe restrictions according Act on the Protection of Working Mothers (MuSchG).
 Observe restrictions according Act on the Protection of Young People in Employment

: WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1).

LGK 2B

LGK 4.3

LGK 6.1A

LGK 7

**LGK 12** 

: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

#### 15.2. Chemical safety assessment

Hazardous Incident Ordinance (12. BlmSchV)

No chemical safety assessment has been carried out

#### **SECTION 16: Other information**

| Abbreviations and acronyms:   |   |  |
|---|---|--|
| 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 |  |

### 7/3/2023 (Revision date) EU - en 9/11

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Abbreviations and acronyms: |  |  |  |
|-----------------------------|--|--|--|
| ATE                         | Acute Toxicity Estimate  |  |  |
| BCF                         | Bioconcentration factor  |  |  |
| BLV                         | Biological limit value   |  |  |
| BOD                         | Biochemical oxygen demand (BOD)  |  |  |
| COD                         | Chemical oxygen demand (COD)   |  |  |
| DMEL                        | Derived Minimal Effect level   |  |  |
| DNEL                        | Derived-No Effect Level  |  |  |
| EC-No.                      | European Community number  |  |  |
| EC50                        | Median effective concentration   |  |  |
| EN                          | European Standard  |  |  |
| IARC                        | International Agency for Research on Cancer                                  |  |  |
| IATA                        | International Air Transport Association                                      |  |  |
| IMDG                        | International Maritime Dangerous Goods                                       |  |  |
| LC50                        | Median lethal concentration  |  |  |
| LD50                        | Median lethal dose   |  |  |
| LOAEL                       | Lowest Observed Adverse Effect Level   |  |  |
| NOAEC                       | No-Observed Adverse Effect Concentration                                     |  |  |
| NOAEL                       | No-Observed Adverse Effect Level   |  |  |
| NOEC                        | No-Observed Effect Concentration   |  |  |
| OECD                        | Organisation for Economic Co-operation and Development                       |  |  |
| OEL                         | Occupational Exposure Limit  |  |  |
| PBT                         | Persistent Bioaccumulative Toxic   |  |  |
| PNEC                        | Predicted No-Effect Concentration  |  |  |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail |  |  |
| SDS                         | Safety Data Sheet  |  |  |
| STP                         | Sewage treatment plant   |  |  |
| ThOD                        | Theoretical oxygen demand (ThOD)   |  |  |
| TLM                         | Median Tolerance Limit   |  |  |
| VOC                         | Volatile Organic Compounds   |  |  |
| CAS-No.                     | Chemical Abstract Service number   |  |  |
| N.O.S.                      | Not Otherwise Specified  |  |  |
| vPvB                        | Very Persistent and Very Bioaccumulative                                     |  |  |
| ED                          | Endocrine disrupting properties  |  |  |

| Full text of H- and EUF                                       | Full text of H- and EUH-statements:              |  |  |
|---|--|--|--|
| Acute Tox. 2 (Dermal)   | Acute toxicity (dermal), Category 2              |  |  |
| Acute Tox. 2 (Inhalation) Acute toxicity (inhal.), Category 2 |  |  |  |
| Acute Tox. 2 (Inhalation:dust,mist)                           | Acute toxicity (inhalation:dust,mist) Category 2 |  |  |

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Full text of H- and EUH-statements: |  |  |  |
|-------------------------------------|--|--|--|
| 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  |  |  |
| EUH071                              | Corrosive to the respiratory tract.                                |  |  |
| Eye Dam. 1                          | Serious eye damage/eye irritation, Category 1                      |  |  |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2                      |  |  |
| H301                                | Toxic if swallowed.  |  |  |
| H310                                | Fatal in contact with skin.  |  |  |
| H314                                | Causes severe skin burns and eye damage.                           |  |  |
| H315                                | Causes skin irritation.  |  |  |
| H317                                | May cause an allergic skin reaction.                               |  |  |
| H318                                | Causes serious eye damage.   |  |  |
| H319                                | Causes serious eye irritation.                                     |  |  |
| H330                                | Fatal if inhaled.  |  |  |
| H372                                | Causes damage to organs through prolonged or repeated exposure.    |  |  |
| H373                                | May cause damage to organs through prolonged or repeated exposure. |  |  |
| H400                                | Very toxic to aquatic life.  |  |  |
| H410                                | Very toxic to aquatic life with long lasting effects.              |  |  |
| Skin Corr. 1B                       | Skin corrosion/irritation, Category 1, Sub-Category 1B             |  |  |
| Skin Corr. 1C                       | Skin corrosion/irritation, Category 1, Sub-Category 1C             |  |  |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2                              |  |  |
| Skin Sens. 1A                       | Skin sensitisation, category 1A                                    |  |  |
| STOT RE 1                           | Specific target organ toxicity – Repeated exposure, Category 1     |  |  |
| STOT RE 2                           | Specific target organ toxicity – Repeated exposure, Category 2     |  |  |

The classification complies with

: ATP 12

Safety Data Sheet (SDS), EU

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.



# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 3/21/2022 Revision date: 7/13/2023 Supersedes version of: 7/3/2023 Version: 5.0

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

#### 1.1. Product identifier

Product form : Mixture

Product name : MP Substrate (SUB01)

Product code : SUB
Product group : Blend

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

#### 1.2.1. Relevant identified uses

Main use category : Professional use

#### 1.2.2. Uses advised against

No additional information available

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

Medipan GmbH GmbH Ludwig-Erhard-Ring, 3 DE— 15827 Blankenfelde-Mahlow OT Dahlewitz Germany T +49 33708 4417 0 - F +49 33708 4417 25 info@medipan.de - www.medipan.de

### 1.4. Emergency telephone number

| Country | Organisation/Company   | Address                           | Emergency number | Comment |
|---------|--|-----------------------------------|------------------|---------|
| Germany | Giftnotruf der Charité -<br>Universitätsmedizin Berlin<br>CBF, Haus VIII (Wirtschaftgebäude), UG | Hindenburgdamm 30<br>12203 Berlin | +49 (0) 30 19240 |         |

### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

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

Not classified

#### Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

# 2.2. Label elements

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

EUH-statements : EUH210 - Safety data sheet available on request.

#### 2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

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 at a concentration equal to or greater than 0,1 %

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Name          | Product identifier                     |       | Classification according to<br>Regulation (EC) No. 1272/2008<br>[CLP] |
|---------------|--|-------|---|
| 2-Pyrrolidone | CAS-No.: 616-45-5<br>EC-No.: 210-483-1 | 1 – 3 | Aquatic Chronic 3, H412   |

Full text of H- and EUH-statements; see section 16

### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.
First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

No additional information available

### 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 : Water spray. Dry powder. Foam. Carbon dioxide.

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

Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

# **SECTION 6: Accidental release measures**

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

# 6.2. Environmental precautions

Avoid release to the environment.

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to 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.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

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

Storage conditions : Store in a well-ventilated place. Keep cool.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

No additional information available

### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

#### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

### Appropriate engineering controls:

Ensure good ventilation of the work station.

# 8.2.2. Personal protection equipment

#### Personal protective equipment symbol(s):







#### 8.2.2.1. Eye and face protection

#### Eye protection:

Safety glasses

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

#### 8.2.2.2. Skin protection

#### Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

Protective gloves

#### 8.2.2.3. Respiratory protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

#### 8,2,2,4, Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

#### 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 : Not available : Not available Odour : Not available Odour threshold : Not applicable Melting point Freezing point : Not available Boiling point : Not available Flammability : Non flammable. Lower explosion limit : Not available : Not available Upper explosion limit : Not available Flash point : Not available Auto-ignition temperature : Not available Decomposition temperature : Not available рΗ : Not available Viscosity, kinematic : Not available Solubility Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available Vapour pressure at 50°C : Not available Density : Not available Relative density : Not available Relative vapour density at 20°C : Not available Particle characteristics : Not applicable

#### 9.2. Other information

# 9.2.1. Information with regard to physical hazard classes

No additional information available

# 9.2.2. Other safety characteristics

No additional information available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

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

Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified

| Acute toxicity (initialation)     | . Not dassined   |
|-----------------------------------|--|
| 2-Pyrrolidone (616-45-5)          |  |
| LD50 oral rat                     | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Guideline: EU Method B.1 (Acute Toxicity (Oral))   |
| LD50 dermal rabbit                | > 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)  |
| Skin corrosion/irritation         | : Not classified   |
| Serious eye damage/irritation     | : Not classified   |
| Respiratory or skin sensitisation | : Not classified   |
| Germ cell mutagenicity            | : Not classified   |
| Carcinogenicity                   | : Not classified   |
| Reproductive toxicity             | : Not classified   |
| STOT-single exposure              | : Not classified   |
| STOT-repeated exposure            | : Not classified   |
| 2-Pyrrolidone (616-45-5)          |  |
| NOAEL (oral, rat, 90 days)        | 207 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents) |

Aspiration hazard : Not classified

# 11.2. Information on other hazards

No additional information available

# **SECTION 12: Ecological information**

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Hazardous to the aquatic environment, short-term

acute)

: Not classified

Hazardous to the aquatic environment, long-term

(chronic)

: Not classified

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

#### Not rapidly degradable

| 2-Pyrrolidone (616-45-5) |   |  |
|--------------------------|---|--|
| LC50 - Fish [1]          | 4600 – 10000 mg/l Source: IUCLID              |  |
| EC50 - Crustacea [1]     | 13.21 mg/l Source: The ECOTOXicology database |  |
| EC50 72h - Algae [1]     | 250 mg/l Source: IUCLID                       |  |

# 12.2. Persistence and degradability

No additional information available

# 12.3. Bioaccumulative potential

| 2-Pyrrolidone (616-45-5)                        |   |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | -0.71 Source: International Uniform ChemicaL Information Database |

# 12.4. Mobility in soil

| 2-Pyrrolidone (616-45-5) |  |
|--------------------------|--|
| Mobility in soil         | 17 Source: National Library of Medicine/Hazardous Substances Data Bank |

### 12.5. Results of PBT and vPvB assessment

No additional information available

# 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

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

# **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR                         | IMDG                             | IATA          | ADN           | RID           |  |  |
|-----------------------------|----------------------------------|---------------|---------------|---------------|--|--|
| 14.1. UN number or ID n     | 14.1. UN number or ID number     |               |               |               |  |  |
| Not regulated for transport |                                  |               |               |               |  |  |
| Not regulated               | Not regulated                    | Not regulated | Not regulated | Not regulated |  |  |
| 14.2. UN proper shippin     | g name                           |               |               |               |  |  |
| Not regulated               | Not regulated                    | Not regulated | Not regulated | Not regulated |  |  |
| 14.3. Transport hazard o    | 14.3. Transport hazard class(es) |               |               |               |  |  |
| Not regulated               | Not regulated                    | Not regulated | Not regulated | Not regulated |  |  |
| 14.4. Packing group         |                                  |               |               |               |  |  |
| Not regulated               | Not regulated                    | Not regulated | Not regulated | Not regulated |  |  |

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| ADR   | IMDG | IATA | ADN | RID |  |
|---|------|------|-----|-----|--|
| 14.5. Environmental hazards   |      |      |     |     |  |
| Not regulated Not regulated Not regulated Not regulated Not regulated |      |      |     |     |  |
| No supplementary information available                                |      |      |     |     |  |

### 14.6. Special precautions for user

#### Overland transport

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

#### **Inland waterway transport**

Not regulated

#### Rail transport

Not regulated

#### 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

#### **REACH Annex XVII (Restriction List)**

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

#### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

#### **REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

### **PIC Regulation (Prior Informed Consent)**

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

#### **POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

#### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

### **Explosives Precursors Regulation (2019/1148)**

Contains substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Please see https://home-affairs.ec.europa.eu/policies/internal-security/counter-terrorism-and-radicalisation/protection/legislation-chemicals-used-home-made-explosives\_en

#### **Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

# 15.1.2. National regulations

#### Germany

Employment restrictions

Water hazard class (WGK)

Storage class (LGK, TRGS 510) Joint storage table

Joint storage not permitted for Joint storage with restrictions permitted for

Joint storage permitted for

Hazardous Incident Ordinance (12. BlmSchV)

: Observe restrictions according Act on the Protection of Working Mothers (MuSchG). Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).

: WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1).

LGK 12 - Non-combustible liquids.

| LGK 1    | LGK 2A  | LGK 2B   | LGK 3    | LGK 4.1A  |
|----------|---------|----------|----------|-----------|
| LGK 4.1B | LGK 4.2 | LGK 4.3  | LGK 5.1A | LGK 5.1B  |
| LGK 5.1C | LGK 5.2 | LGK 6.1A | LGK 6.1B | LGK 6.1C  |
| LGK 6.1D | LGK 6.2 | LGK 7    | LGK 8A   | LGK 8B    |
| LGK 10   | LGK 11  | LGK 12   | LGK 13   | LGK 10-13 |

: LGK 1, LGK 6.2, LGK 7.

: LGK 4.1A, LGK 4.3, LGK 5.1C.

: LGK 2A, LGK 2B, LGK 3, LGK 4.1B, LGK 4.2, LGK 5.1A, LGK 5.1B, LGK 5.2, LGK 6.1A, LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, LGK 10, LGK 11, LGK 12, LGK 13, LGK

: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

# 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

# **SECTION 16: Other information**

| Abbreviations and acronyms: |   |  |
|-----------------------------|---|--|
| 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             |  |
| ATE                         | Acute Toxicity Estimate   |  |
| BCF                         | Bioconcentration factor   |  |
| BLV                         | Biological limit value  |  |
| BOD                         | Biochemical oxygen demand (BOD)   |  |
| COD                         | Chemical oxygen demand (COD)  |  |
| DMEL                        | Derived Minimal Effect level  |  |
| DNEL                        | Derived-No Effect Level   |  |
| EC-No.                      | European Community number   |  |
| EC50                        | Median effective concentration  |  |
| EN                          | European Standard   |  |
| IARC                        | International Agency for Research on Cancer   |  |
| IATA                        | International Air Transport Association   |  |
| IMDG                        | International Maritime Dangerous Goods  |  |
| LC50                        | Median lethal concentration   |  |
| LD50                        | Median lethal dose  |  |
| LOAEL                       | Lowest Observed Adverse Effect Level  |  |
| NOAEC                       | No-Observed Adverse Effect Concentration  |  |
| NOAEL                       | No-Observed Adverse Effect Level  |  |
| NOEC                        | No-Observed Effect Concentration  |  |

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Abbreviations and acronyms: |  |  |
|-----------------------------|--|--|
| OECD                        | Organisation for Economic Co-operation and Development                       |  |
| OEL                         | Occupational Exposure Limit  |  |
| PBT                         | Persistent Bioaccumulative Toxic   |  |
| PNEC                        | Predicted No-Effect Concentration  |  |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail |  |
| SDS                         | Safety Data Sheet  |  |
| STP                         | Sewage treatment plant   |  |
| ThOD                        | Theoretical oxygen demand (ThOD)   |  |
| TLM                         | Median Tolerance Limit   |  |
| VOC                         | Volatile Organic Compounds   |  |
| CAS-No.                     | Chemical Abstract Service number   |  |
| N.O.S.                      | Not Otherwise Specified  |  |
| vPvB                        | Very Persistent and Very Bioaccumulative                                     |  |
| ED                          | Endocrine disrupting properties  |  |

| Full text of H- and EUH-statements:   |  |  |
|---|--|--|
| Aquatic Chronic 3 Hazardous to the aquatic environment – Chronic Hazard, Category 3 |  |  |
| EUH210  | Safety data sheet available on request.            |  |
| H412  | Harmful to aquatic life with long lasting effects. |  |

The classification complies with

: ATP 12

Safety Data Sheet (SDS), EU

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.

7/13/2023 (Revision date) EU - en 9/9



# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 4/11/2022 Revision date: 7/3/2023 Supersedes version of: 4/11/2022 Version: 3.0

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

#### 1.1. Product identifier

Product form : Mixture

Product name : MP Stop Solution (STOP01)

Product code : STOP
Type of product : Acids
Product group : Blend

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

#### 1.2.1. Relevant identified uses

Main use category : Professional use

#### 1.2.2. Uses advised against

No additional information available

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

Medipan GmbH GmbH Ludwig-Erhard-Ring, 3 DE- 15827 Blankenfelde-Mahlow OT Dahlewitz Germany T +49 33708 4417 0 - F +49 33708 4417 25

info@medipan.de - www.medipan.de

#### 1.4. Emergency telephone number

| Country | Organisation/Company   | Address                           | Emergency number | Comment |
|---------|--|-----------------------------------|------------------|---------|
| Germany | Giftnotruf der Charité -<br>Universitätsmedizin Berlin<br>CBF, Haus VIII (Wirtschaftgebäude), UG | Hindenburgdamm 30<br>12203 Berlin | +49 (0) 30 19240 |         |

# **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

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

Not classified

#### Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

### 2.2. Label elements

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

EUH-statements : EUH210 - Safety data sheet available on request.

### 2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

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 at a concentration equal to or greater than 0,1 %

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### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable

# 3.2. Mixtures

| Name   | Product identifier  | %    | Classification according to<br>Regulation (EC) No. 1272/2008<br>[CLP]  |
|--|---|------|--|
| sulphuric acid % substance with national workplace exposure limit(s) (DE); substance with a Community workplace exposure limit | CAS-No.: 7664-93-9<br>EC-No.: 231-639-5<br>EC Index-No.: 016-020-00-8 | 2.45 | Acute Tox. 2 (Inhalation:dust,mist), H330 (ATE=0.375 mg/l/4h) Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 2, H411 |

| Specific concentration limits: |                    |   |
|--------------------------------|--------------------|---|
| Name                           | Product identifier | Specific concentration limits (%)   |
| sulphuric acid %               |                    | (5 ≤ C < 15) Skin Irrit. 2, H315<br>(5 ≤ C < 15) Eye Irrit. 2, H319<br>(15 ≤ C ≤ 100) Skin Corr. 1A, H314 |

Full text of H- and EUH-statements: see section 16

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.
First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

No additional information available

### 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 : Water spray. Dry powder. Foam. Carbon dioxide.

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

Hazardous decomposition products in case of fire : Toxic fumes may be released.

# 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

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#### **SECTION 6: Accidental release measures**

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

# 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to 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.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product

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

Storage conditions : Store in a well-ventilated place. Keep cool.

# 7.3. Specific end use(s)

No additional information available

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

# 8.1.1 National occupational exposure and biological limit values

| sulphuric acid % (7664-93-9)                          |               |  |
|---|---------------|--|
| EU - Indicative Occupational Exposure Limit (IOEL)    |               |  |
| Local name Sulphuric acid (mist)                      |               |  |
| IOEL TWA  | 0.05 mg/m³    |  |
| Regulatory reference COMMISSION DIRECTIVE 2009/161/EU |               |  |
| Germany - Occupational Exposure Limits (TRGS 900)     |               |  |
| Local name  | Schwefelsäure |  |
| AGW (OEL TWA) [1]                                     | 0.1 mg/m³ (E) |  |
| Peak exposure limitation factor                       | 1(1)          |  |

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| sulphuric acid % (7664-93-9) |  |
|------------------------------|--|
| Remark                       | DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); EU - Europäische Union (Von der EU wurde ein Luftgrenzwert festgelegt: Abweichungen bei Wert und Spitzenbegrenzung sind möglich); Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden |
| Regulatory reference         | TRGS900  |

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

### 8.1.5. Control banding

No additional information available

#### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

#### Personal protective equipment symbol(s):







#### 8.2.2.1. Eye and face protection

#### Eye protection:

Safety glasses

# 8.2.2.2. Skin protection

## Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

Protective gloves

## 8.2.2.3. Respiratory protection

### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

#### 8.2.2.4. Thermal hazards

No additional information available

# 8.2.3. Environmental exposure controls

#### **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

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Colour : Not available

Appearance : Clear, colorless liquid.

Odour : Not available Not available Odour threshold Melting point : Not applicable Freezing point Not available Boiling point Not available Flammability Not applicable Lower explosion limit : Not available Upper explosion limit : Not available : Not available Flash point Auto-ignition temperature Not available : Not available Decomposition temperature рΗ Not available Not available Viscosity, kinematic Solubility : Not available Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available Vapour pressure at 50°C : Not available : Not available Density : Not available Relative density

#### 9.2. Other information

Particle characteristics

Relative vapour density at 20°C

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

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

# 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

: Not available

: Not applicable

# **SECTION 11: Toxicological information**

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

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

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| sulphuric acid % (7664-93-9)      |   |
|-----------------------------------|---|
| LD50 oral rat                     | 2140 mg/kg bodyweight Animal: rat, 95% CL: 1540 - 2990                                |
| LC50 Inhalation - Rat             | 0.375 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity) |
| LC50 Inhalation - Rat (Dust/Mist) | 0.375 mg/l Source: ECHA   |
| Skin corrosion/irritation         | Not classified  |
| sulphuric acid % (7664-93-9)      |   |
| рН                                | 0.3 Source: HSDB  |
| Serious eye damage/irritation     | Not classified  |
| sulphuric acid % (7664-93-9)      |   |
| рН                                | 0.3 Source: HSDB  |
| Respiratory or skin sensitisation | Not classified  |
| Germ cell mutagenicity            | Not classified  |
| Carcinogenicity                   | Not classified  |
| sulphuric acid % (7664-93-9)      |   |
| IARC group                        | 1 - Carcinogenic to humans  |
| Reproductive toxicity             | Not classified  |
| STOT-single exposure              | Not classified  |
| STOT-repeated exposure            | Not classified  |
| Aspiration hazard                 | Not classified  |
| sulphuric acid % (7664-93-9)      |   |
| Viscosity, kinematic              | 11.413 mm²/s  |
|                                   | <del> </del>  |

# 11.2. Information on other hazards

No additional information available

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

: Not classified

Hazardous to the aquatic environment, short–term

(acute)

Hazardous to the aquatic environment, long-term : Not classified

(chronic)

Not rapidly degradable

| Not rapidly degradable       |   |
|------------------------------|---|
| sulphuric acid % (7664-93-9) |   |
| LC50 - Fish [1]              | 16 – 28 mg/l Source: ECHA, NCIS   |
| EC50 - Crustacea [1]         | > 100 mg/l Test organisms (species): Daphnia magna  |
| EC50 72h - Algae [1]         | > 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |
| NOEC (chronic)               | 0.15 mg/l Test organisms (species): other:  |
| NOEC chronic fish            | 0.31 mg/l Test organisms (species): Salvelinus fontinalis   |

# 12.2. Persistence and degradability

No additional information available

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### 12.3. Bioaccumulative potential

# sulphuric acid ... % (7664-93-9)

Partition coefficient n-octanol/water (Log Pow) -2.2 Source: HSDB

#### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 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

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

# **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR                                    | IMDG                             | IATA          | ADN           | RID           |  |
|--|----------------------------------|---------------|---------------|---------------|--|
| 14.1. UN number or ID n                | umber                            |               |               |               |  |
| Not regulated for transport            |                                  |               |               |               |  |
| Not regulated                          | Not regulated                    | Not regulated | Not regulated | Not regulated |  |
| 14.2. UN proper shippin                | g name                           |               |               |               |  |
| Not regulated                          | Not regulated                    | Not regulated | Not regulated | Not regulated |  |
| 14.3. Transport hazard                 | 14.3. Transport hazard class(es) |               |               |               |  |
| Not regulated                          | Not regulated                    | Not regulated | Not regulated | Not regulated |  |
| 14.4. Packing group                    | 14.4. Packing group              |               |               |               |  |
| Not regulated                          | Not regulated                    | Not regulated | Not regulated | Not regulated |  |
| 14.5. Environmental hazards            |                                  |               |               |               |  |
| Not regulated                          | Not regulated                    | Not regulated | Not regulated | Not regulated |  |
| No supplementary information available |                                  |               |               |               |  |

### 14.6. Special precautions for user

## **Overland transport**

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

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#### Inland waterway transport

Not regulated

#### Rail transport

Not regulated

#### 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

#### **REACH Annex XVII (Restriction List)**

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

#### **REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

#### **REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

#### **POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

#### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

# **Explosives Precursors Regulation (2019/1148)**

Contains substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

ANNEX I RESTRICTED EXPLOSIVES PRECURSORS

List of substances which shall not be made available to, or introduced, possessed or used by, members of the general public, whether on their own or in mixtures or substances that include those substances, unless the concentration is equal to or lower than the limit values set out in column 2, and for which suspicious transactions and significant disappearances and thefts are to be reported to the relevant national contact point within 24 hours

| Name           | CAS-No.   |          | Article 5(3) | Combined Nomenclature (CN) code for a separate chemically defined compound meeting the requirements of Note 1 to Chapter 28 or 29 of the CN, respectively | code for mixture without |
|----------------|-----------|----------|--------------|---|--------------------------|
| Sulphuric acid | 7664-93-9 | 15 % w/w | 40 % w/w     | ex 2807 00 00   | ex 3824 99 96            |

Please see https://ec.europa.eu/home-affairs/system/files/2021-11/list\_of\_competent\_authorities\_and\_national\_contact\_points\_en.pdf

#### **Drug Precursors Regulation (273/2004)**

Contains substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

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| Name           | CN<br>designation | CAS-No.   | CN code    | Category   | Threshold | Annex   |
|----------------|-------------------|-----------|------------|------------|-----------|---------|
| Sulphuric acid |                   | 7664-93-9 | 2807 00 00 | Category 3 |           | Annex I |

#### 15.1.2. National regulations

#### Germany

**Employment restrictions** 

Water hazard class (WGK) Storage class (LGK, TRGS 510) Joint storage table

Joint storage not permitted for Joint storage with restrictions permitted for Joint storage permitted for  Observe restrictions according Act on the Protection of Working Mothers (MuSchG).
 Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).

: WGK nwg, Non-hazardous to water (Classification according to AwSV, Annex 1).

: LGK 12 - Non-combustible liquids.

| LGK 1    | LGK 2A  | LGK 2B   | LGK 3    | LGK 4.1A  |
|----------|---------|----------|----------|-----------|
| LGK 4.1B | LGK 4.2 | LGK 4.3  | LGK 5.1A | LGK 5.1B  |
| LGK 5.1C | LGK 5.2 | LGK 6.1A | LGK 6.1B | LGK 6.1C  |
| LGK 6.1D | LGK 6.2 | LGK 7    | LGK 8A   | LGK 8B    |
| LGK 10   | LGK 11  | LGK 12   | LGK 13   | LGK 10-13 |

: LGK 1, LGK 6.2, LGK 7. : LGK 4.1A, LGK 4.3, LGK 5.1C.

: LGK 2A, LGK 2B, LGK 3, LGK 4.1B, LGK 4.2, LGK 5.1A, LGK 5.1B, LGK 5.2, LGK 6.1A, LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, LGK 10, LGK 11, LGK 12, LGK 13, LGK 10-13.

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

# **SECTION 16: Other information**

| Indication of changes |               |          |          |
|-----------------------|---------------|----------|----------|
| Section               | Changed item  | Change   | Comments |
|                       | Revision date | Modified |          |
| 1.1                   | Product code  | Modified |          |

| Abbreviations and acronyms: |   |  |
|-----------------------------|---|--|
| 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             |  |
| ATE                         | Acute Toxicity Estimate   |  |
| BCF                         | Bioconcentration factor   |  |
| BLV                         | Biological limit value  |  |
| BOD                         | Biochemical oxygen demand (BOD)   |  |
| COD                         | Chemical oxygen demand (COD)  |  |
| DMEL                        | Derived Minimal Effect level  |  |
| DNEL                        | Derived-No Effect Level   |  |
| EC-No.                      | European Community number   |  |
| EC50                        | Median effective concentration  |  |
| EN                          | European Standard   |  |
| IARC                        | International Agency for Research on Cancer   |  |

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| Abbreviations and acronyms: |  |  |
|-----------------------------|--|--|
| IATA                        | International Air Transport Association                                      |  |
| IMDG                        | International Maritime Dangerous Goods                                       |  |
| LC50                        | Median lethal concentration  |  |
| LD50                        | Median lethal dose   |  |
| LOAEL                       | Lowest Observed Adverse Effect Level   |  |
| NOAEC                       | No-Observed Adverse Effect Concentration                                     |  |
| NOAEL                       | No-Observed Adverse Effect Level   |  |
| NOEC                        | No-Observed Effect Concentration   |  |
| OECD                        | Organisation for Economic Co-operation and Development                       |  |
| OEL                         | Occupational Exposure Limit  |  |
| PBT                         | Persistent Bioaccumulative Toxic   |  |
| PNEC                        | Predicted No-Effect Concentration  |  |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail |  |
| SDS                         | Safety Data Sheet  |  |
| STP                         | Sewage treatment plant   |  |
| ThOD                        | Theoretical oxygen demand (ThOD)   |  |
| TLM                         | Median Tolerance Limit   |  |
| VOC                         | Volatile Organic Compounds   |  |
| CAS-No.                     | Chemical Abstract Service number   |  |
| N.O.S.                      | Not Otherwise Specified  |  |
| vPvB                        | Very Persistent and Very Bioaccumulative                                     |  |
| ED                          | Endocrine disrupting properties  |  |

| Full text of H- and EUH-statements: |   |  |
|-------------------------------------|---|--|
| Acute Tox. 2 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 2                  |  |
| Aquatic Chronic 2                   | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |  |
| EUH210                              | Safety data sheet available on request.                           |  |
| Eye Dam. 1                          | Serious eye damage/eye irritation, Category 1                     |  |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2                     |  |
| H314                                | Causes severe skin burns and eye damage.                          |  |
| H315                                | Causes skin irritation.   |  |
| H318                                | Causes serious eye damage.  |  |
| H319                                | Causes serious eye irritation.                                    |  |
| H330                                | Fatal if inhaled.   |  |
| H411                                | Toxic to aquatic life with long lasting effects.                  |  |
| Skin Corr. 1A                       | Skin corrosion/irritation, Category 1, Sub-Category 1A            |  |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2                             |  |

The classification complies with : ATP 12

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Safety Data Sheet (SDS), EU

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.