| 19.03.2022      | Kit Components   |
|-----------------|--|
| Product code    | Description  |
| 71064354        | Kit CAS74: Flüssigkeiten für die Wartung<br>Kit CAS74: liquids for maintenance |
| Components:     |  |
| CY80TN-SX+TP    | Standard solution NO3-N 10 mg/l  |
| 71064354_2      | Standard solution NO3-N 1 mg/l   |
| 71064354_3      | Reinstwasser ultra-pure water  |
| 71064354_4      | Isopropanol Isopropyl alcohol  |
| CAY342V10C20AAE | Standard solution NO3-N 20 mg/l  |

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People for Process Automation Version 3 (replaces version 2)

Revision: 19.03.2022

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

#### **1.1 Product identifier**

Trade name: <u>Standard solution NO3-N</u> Synonym: 10 mg/l

Article number: CY80TN-SX+TP

**1.2 Relevant identified uses of the substance or mixture and uses advised against** *No further relevant information available.* 

Application of the substance / the mixture Laboratory chemicals

**1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier:** Endress+Hauser Conducta GmbH+Co. KG Dieselstraße 24 D-70839 Gerlingen

Further information obtainable from: Phone: +49 (0)7156 209-10117 E-Mail: MSDS.PCC @endress.com

1.4 Emergency telephone number: 0044 717 635 91 91

## **SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008** *The product is not classified, according to the GB CLP regulation.* 

2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 Void Hazard pictograms Void Signal word Void Hazard statements Void 2.3 Other hazards The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

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

**3.2 Mixtures Description:** *aqueous solution* 

**Dangerous components:** Void **Additional information:** For the wording of the listed hazard phrases refer to section 16.

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

4.1 Description of first aid measures

General information: No special measures required.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: If symptoms persist consult doctor.

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#### Trade name: Standard solution NO3-N

**4.2 Most important symptoms and effects, both acute and delayed** *No further relevant information available.* 

#### **4.3 Indication of any immediate medical attention and special treatment needed** *No further relevant information available.*

## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: no further information

5.2 Special hazards arising from the substance or mixture No further relevant information available.

**5.3 Advice for firefighters** *No further relevant information available.* 

Protective equipment: No special measures required.

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

**6.1 Personal precautions, protective equipment and emergency procedures** *Wear protective clothing.* **6.2 Environmental precautions:** *Dilute with plenty of water.* 

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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

**7.1 Precautions for safe handling** *No special measures required.* **Information about fire - and explosion protection:** *No special measures required.* 

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: *No special requirements.* Information about storage in one common storage facility: *Not required.* Further information about storage conditions: *None.* Storage class: *12* 7.3 Specific end use(s) *No further relevant information available.* 

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

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Appropriate engineering controls *No further data; see item 7.* Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection: Not required.

Hand protection No chemical-protective gloves required.

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Version 3 (replaces version 2)

#### Trade name: Standard solution NO3-N

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection Not required.

Body protection: Protective work clothing

## **SECTION 9: Physical and chemical properties**

# Material of gloves

9.1 Information on basic physical and chemical properties **General Information Physical state** Fluid Colour: Colourless Odour: Odourless **Odour threshold:** Not determined. Melting point/freezing point: Undetermined. Boiling point or initial boiling point and boiling 100 °C range Flammability Not applicable. Lower and upper explosion limit Lower: Not determined. Upper: Not determined. Flash point: Not applicable. **Decomposition temperature:** Not determined. pН Slightly acidic Viscosity: **Kinematic viscosity** Not determined. **Dynamic:** Not determined. Solubility water: Fully miscible. Partition coefficient n-octanol/water (log value) Not determined. Vapour pressure at 20 °C: 23 hPa Density and/or relative density Density at 20 °C: 1.001 a/cm<sup>3</sup> **Relative density** Not determined. Vapour density Not determined. 9.2 Other information Appearance: Form: Liquid Important information on protection of health and environment, and on safety. Auto-ignition temperature: Product is not selfigniting. **Explosive properties:** Product does not present an explosion hazard. Not determined. Solvent content: Water: 99.9 % Solids content: 0.0 % Change in condition **Evaporation rate** Not determined.

> (Contd. on page 4) - GB ----

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#### Trade name: Standard solution NO3-N

| Information with regard to physical hazard classes |      |
|--|------|
| Explosives   | Void |
| Flammable gases                                    | Void |
| Aerosols   | Void |
| Oxidising gases                                    | Void |
| Gases under pressure                               | Void |
| Flammable liquids                                  | Void |
| Flammable solids                                   | Void |
| Self-reactive substances and mixtures              | Void |
| Pyrophoric liquids                                 | Void |
| Pyrophoric solids                                  | Void |
| Self-heating substances and mixtures               | Void |
| Substances and mixtures, which emit flammable      |      |
| gases in contact with water                        | Void |
| Oxidising liquids                                  | Void |
| Oxidising solids                                   | Void |
| Organic peroxides                                  | Void |
| Corrosive to metals                                | Void |
| Desensitised explosives                            | Void |

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

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.

**10.4 Conditions to avoid** *No further relevant information available.* 

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

## **SECTION 11: Toxicological information**

11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

## **SECTION 12: Ecological information**

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

**12.2 Persistence and degradability** No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Additional ecological information:

General notes: Not hazardous for water.

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Trade name: Standard solution NO3-N

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## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Recommendation Smaller quantities can be disposed of with household waste.

**Uncleaned packaging:** 

**Recommendation:** *Disposal must be made according to official regulations.* **Recommended cleansing agents:** *Water, if necessary together with cleansing agents.* 

## **SECTION 14: Transport information**

| 14.1 UN number or ID number<br>ADN, IMDG, IATA<br>14.2 UN proper shipping name<br>ADR, ADN, IMDG, IATA<br>14.3 Transport hazard class(es) | Void<br>Void   |
|---|--|
| ADR, ADN, IMDG, IATA<br>Class<br>14.4 Packing group<br>ADR, IMDG, IATA  | Void   |
| 14.5 Environmental hazards:<br>Marine pollutant:<br>14.6 Special precautions for user   | No   |
| 14.6 Special precautions for user<br>14.7 Maritime transport in bulk according to IMC<br>instruments                                      | Not applicable.<br><b>)</b><br>Not applicable.               |
| Transport/Additional information:<br>UN "Model Regulation":   | Not dangerous according to the above specifications.<br>Void |

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Labelling according to Regulation (EC) No 1272/2008 *Void* Hazard pictograms *Void* Signal word *Void* Hazard statements *Void* 

Directive 2012/18/EU Named dangerous substances - ANNEX I None of the ingredients is listed. 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### 16.3 Recommended restriction of use

Department issuing SDS: PCC-TWR Contact: MSDS.pcc@endress.com Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organisation ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO) ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

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Revision: 19.03.2022

#### Trade name: Standard solution NO3-N

ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative \* Data compared to the previous version altered. (Contd. of page 5)

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People for Process Automation Version 3 (replaces version 2)

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

#### **1.1 Product identifier**

Trade name: <u>Standard solution NO3-N</u> Synonym: 1 mg/l

Article number: 71064354\_2

**1.2 Relevant identified uses of the substance or mixture and uses advised against** *No further relevant information available.* 

Application of the substance / the mixture Laboratory chemicals

**1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier:** *Endress+Hauser Conducta GmbH+Co. KG Dieselstraße 24 D-70839 Gerlingen* 

Further information obtainable from: Phone: +49 (0)7156 209-10117 E-Mail: MSDS.PCC @endress.com

1.4 Emergency telephone number: 0044 717 635 91 91

## **SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008** *The product is not classified, according to the GB CLP regulation.* 

2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 Void Hazard pictograms Void Signal word Void Hazard statements Void 2.3 Other hazards The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

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

**3.2 Mixtures Description:** *aqueous solution* 

**Dangerous components:** Void **Additional information:** For the wording of the listed hazard phrases refer to section 16.

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

4.1 Description of first aid measures

General information: No special measures required.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: If symptoms persist consult doctor.

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#### Trade name: Standard solution NO3-N

**4.2 Most important symptoms and effects, both acute and delayed** *No further relevant information available.* 

#### **4.3 Indication of any immediate medical attention and special treatment needed** *No further relevant information available.*

## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: no further information

5.2 Special hazards arising from the substance or mixture No further relevant information available.

**5.3 Advice for firefighters** *No further relevant information available.* 

Protective equipment: No special measures required.

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

**6.1 Personal precautions, protective equipment and emergency procedures** *Wear protective clothing.* **6.2 Environmental precautions:** *Dilute with plenty of water.* 

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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

**7.1 Precautions for safe handling** *No special measures required.* **Information about fire - and explosion protection:** *No special measures required.* 

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: *No special requirements.* Information about storage in one common storage facility: *Not required.* Further information about storage conditions: *None.* Storage class: *12* 7.3 Specific end use(s) *No further relevant information available.* 

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

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Appropriate engineering controls *No further data; see item 7.* Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection: Not required.

Hand protection No chemical-protective gloves required.

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(Contd. of page 1)

Trade name: Standard solution NO3-N

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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#### Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection Not required.

Body protection: Protective work clothing

## **SECTION 9: Physical and chemical properties**

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(Contd. of page 2)

| · · · · · · · · · · · · · · · · · · ·              |   |
|--|---|
| 9.1 Information on basic physical and chemical     | properties                                    |
| General Information                                |   |
| Physical state                                     | Fluid   |
| Colour:  | Colourless                                    |
| Odour:   | Odourless                                     |
| Odour threshold:                                   | Not determined.                               |
| Melting point/freezing point:                      | Undetermined.                                 |
| Boiling point or initial boiling point and boiling |   |
| range  | 100 °C  |
| Flammability                                       | Not applicable.                               |
| Lower and upper explosion limit                    | .,  |
| Lower:   | Not determined.                               |
| Upper:   | Not determined.                               |
| Flash point:                                       | Not applicable.                               |
| Decomposition temperature:                         | Not determined.                               |
| pH   | Slightly acidic                               |
| Viscosity:   |   |
| Kinematic viscosity                                | Not determined.                               |
| Dynamic:   | Not determined.                               |
| Solubility   |   |
| water:   | Fully miscible.                               |
| Partition coefficient n-octanol/water (log value)  | Not determined.                               |
| Vapour pressure at 20 °C:                          | 23 hPa  |
| Density and/or relative density                    | 20111 0                                       |
| Density at 20 °C:                                  | 1 g/cm³                                       |
| Relative density                                   | Not determined.                               |
| Vapour density                                     | Not determined.                               |
|  | Not dotominod.                                |
| 9.2 Other information                              |   |
| Appearance:  |   |
| Form:  | Liquid  |
| Important information on protection of health      |   |
| and environment, and on safety.                    |   |
| Auto-ignition temperature:                         | Product is not selfigniting.                  |
| Explosive properties:                              | Product does not present an explosion hazard. |
|  | Not determined.                               |
| Solvent content:                                   |   |
| Water:   | 99.9 %  |
| Solids content:                                    | 0.0 %   |
| Change in condition                                |   |
| Evaporation rate                                   | Not determined.                               |
|  | (Contd. on                                    |

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#### Trade name: Standard solution NO3-N

| Information with regard to physical hazard<br>classes |      |
|---|------|
| Explosives  | Void |
| Flammable gases                                       | Void |
| Aerosols  | Void |
| Oxidising gases                                       | Void |
| Gases under pressure                                  | Void |
| Flammable liquids                                     | Void |
| Flammable solids                                      | Void |
| Self-reactive substances and mixtures                 | Void |
| Pyrophoric liquids                                    | Void |
| Pyrophoric solids                                     | Void |
| Self-heating substances and mixtures                  | Void |
| Substances and mixtures, which emit flammable         |      |
| gases in contact with water                           | Void |
| Oxidising liquids                                     | Void |
| Oxidising solids                                      | Void |
| Organic peroxides                                     | Void |
| Corrosive to metals                                   | Void |
| Desensitised explosives                               | Void |

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

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.

**10.4 Conditions to avoid** *No further relevant information available.* 

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

## **SECTION 11: Toxicological information**

11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

## **SECTION 12: Ecological information**

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

**12.2 Persistence and degradability** No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Additional ecological information:

General notes: Not hazardous for water.

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Trade name: Standard solution NO3-N

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**SECTION 13: Disposal considerations** 

13.1 Waste treatment methods

Recommendation Smaller quantities can be disposed of with household waste.

**Uncleaned packaging:** 

**Recommendation:** *Disposal must be made according to official regulations.* **Recommended cleansing agents:** *Water, if necessary together with cleansing agents.* 

## **SECTION 14: Transport information**

| 14.1 UN number or ID number<br>ADN, IMDG, IATA<br>14.2 UN proper shipping name<br>ADR, ADN, IMDG, IATA<br>14.3 Transport hazard class(es) | Void<br>Void   |
|---|--|
| ADR, ADN, IMDG, IATA<br>Class<br>14.4 Packing group<br>ADR, IMDG, IATA<br>14.5 Environmental hazards:                                     | Void<br>Void   |
| Marine pollutant:   | No   |
| 14.6 Special precautions for user   | Not applicable.                                      |
| 14.7 Maritime transport in bulk according to IMC  | <b>)</b>   |
| instruments   | Not applicable.                                      |
| Transport/Additional information:   | Not dangerous according to the above specifications. |
| UN "Model Regulation":  | Void   |

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Labelling according to Regulation (EC) No 1272/2008 *Void* Hazard pictograms *Void* Signal word *Void* Hazard statements *Void* 

Directive 2012/18/EU Named dangerous substances - ANNEX I None of the ingredients is listed. 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### 16.3 Recommended restriction of use

Department issuing SDS: PCC-TWR Contact: MSDS.pcc@endress.com Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organisation ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO) ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

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Version 3 (replaces version 2)

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Revision: 19.03.2022

#### Trade name: Standard solution NO3-N

ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative \* Data compared to the previous version altered. (Contd. of page 5)

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People for Process Automation Version 5 (replaces version 4)

Revision: 19.03.2022

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

#### **1.1 Product identifier**

Trade name: <u>Reinstwasser</u> Synonym: *ultra-pure water* 

Article number: 71064354\_3

**CAS Number:** 7732-18-5 **EC number:** 231-791-2

**1.2 Relevant identified uses of the substance or mixture and uses advised against** *No further relevant information available.* 

Application of the substance / the mixture Laboratory chemicals

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

Manufacturer/Supplier: Endress+Hauser Conducta GmbH+Co. KG Dieselstraße 24 D-70839 Gerlingen

Further information obtainable from: Phone: +49 (0)7156 209-10117 E-Mail: MSDS.PCC@endress.com

1.4 Emergency telephone number: 0044 717 635 91 91

## **SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008** *The substance is not classified, according to the GB CLP regulation.* 

2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 Void Hazard pictograms Void Signal word Void Hazard statements Void 2.3 Other hazards The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

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

3.1 Substances CAS No. Description CAS: 7732-18-5 water Identification number(s) EC number: 231-791-2

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

4.1 Description of first aid measures

General information: No special measures required.

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according to 1907/2006/EC, Article 31

Printing date 19.03.2022

Version 5 (replaces version 4)

#### Trade name: Reinstwasser

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: If symptoms persist consult doctor. 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

**4.3 Indication of any immediate medical attention and special treatment needed** *No further relevant information available.* 

## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
For safety reasons unsuitable extinguishing agents: no further information
5.2 Special hazards arising from the substance or mixture No further relevant information available.
5.3 Advice for firefighters No further relevant information available.
Protective equipment: No special measures required.

**SECTION 6: Accidental release measures** 

6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing.

6.2 Environmental precautions: Dilute with plenty of water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

## 6.4 Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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

**7.1 Precautions for safe handling** *No special measures required.* **Information about fire - and explosion protection:** *No special measures required.* 

7.2 Conditions for safe storage, including any incompatibilities

#### Storage:

Requirements to be met by storerooms and receptacles: *No special requirements.* Information about storage in one common storage facility: *Not required.* Further information about storage conditions: *None.* Storage class: *12* 7.3 Specific end use(s) *No further relevant information available.* 

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

8.1 Control parameters

**Ingredients with limit values that require monitoring at the workplace:** *Not required.* **Additional information:** *The lists valid during the making were used as basis.* 

8.2 Exposure controls

Appropriate engineering controls *No further data; see item 7.* Individual protection measures, such as personal protective equipment

#### General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

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(Contd. of page 1)

according to 1907/2006/EC, Article 31

Printing date 19.03.2022

Version 5 (replaces version 4)

#### Trade name: Reinstwasser

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Revision: 19.03.2022

Respiratory protection: Not required.

Hand protection No chemical-protective gloves required.

#### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

#### Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection Not required.

Body protection: Protective work clothing

## **SECTION 9: Physical and chemical properties**

| 9.1 Information on basic physical and chemical  <br>General Information | properties                                    |
|---|---|
| Physical state  | Fluid   |
| Colour:   | Colourless                                    |
| Odour:  | Odourless                                     |
| Odour threshold:  | Not determined.                               |
| Melting point/freezing point:   | 0°C   |
| Boiling point or initial boiling point and boiling                      | 400.00  |
| range   | 100 °C  |
| Flammability  | Not applicable.                               |
| Lower and upper explosion limit<br>Lower:                               | Not determined                                |
| Upper:  | Not determined.<br>Not determined.            |
| Flash point:  | Not applicable.                               |
| Decomposition temperature:  | Not determined.                               |
| pH  | Slightly acidic                               |
| Viscosity:  | Chighlity dolate                              |
| Kinematic viscosity   | Not determined.                               |
| Dynamic at 20 °C:   | 0.952 mPas                                    |
| Solubility  |   |
| water:  | Fully miscible.                               |
| Partition coefficient n-octanol/water (log value)                       | Not determined.                               |
| Vapour pressure at 20 °C:   | 23 hPa  |
| Density and/or relative density   |   |
| Density at 20 °C:   | 1 g/cm³                                       |
| Relative density  | Not determined.                               |
| Vapour density  | Not determined.                               |
| 9.2 Other information   |   |
| Appearance:   |   |
| Form:   | Liquid  |
| Important information on protection of health                           |   |
| and environment, and on safety.   |   |
| Auto-ignition temperature:  | Not determined.                               |
| Explosive properties:   | Product does not present an explosion hazard. |
|   | Not determined.                               |
| Water:  | 100.0 %                                       |
| Solids content:   | 0.0 %   |
| Change in condition   | Not datarminad                                |
| Evaporation rate  | Not determined.<br>(Contd. on                 |
|   | (Conta: on                                    |

according to 1907/2006/EC, Article 31

Printing date 19.03.2022

#### Trade name: Reinstwasser

| Information with regard to physical hazard<br>classes |      |
|---|------|
| Explosives  | Void |
| Flammable gases                                       | Void |
| Aerosols  | Void |
| Oxidising gases                                       | Void |
| Gases under pressure                                  | Void |
| Flammable liquids                                     | Void |
| Flammable solids                                      | Void |
| Self-reactive substances and mixtures                 | Void |
| Pyrophoric liquids                                    | Void |
| Pyrophoric solids                                     | Void |
| Self-heating substances and mixtures                  | Void |
| Substances and mixtures, which emit flammable         |      |
| gases in contact with water                           | Void |
| Oxidising liquids                                     | Void |
| Oxidising solids                                      | Void |
| Organic peroxides                                     | Void |
| Corrosive to metals                                   | Void |
| Desensitised explosives                               | Void |

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

10.1 Reactivity No further relevant information available.

**10.2 Chemical stability** 

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.

**10.4 Conditions to avoid** *No further relevant information available.* 

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

## **SECTION 11: Toxicological information**

11.2 Information on other hazards

## **Endocrine disrupting properties**

Substance is not listed.

## **SECTION 12: Ecological information**

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

**12.2 Persistence and degradability** No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

**PBT:** Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Additional ecological information:

General notes: Not hazardous for water.

(Contd. on page 5)

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#### Trade name: Reinstwasser

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## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Recommendation Smaller quantities can be disposed of with household waste.

**Uncleaned packaging:** 

**Recommendation:** *Disposal must be made according to official regulations.* **Recommended cleansing agents:** *Water, if necessary together with cleansing agents.* 

## **SECTION 14: Transport information**

| 14.1 UN number or ID number<br>ADN, IMDG, IATA<br>14.2 UN proper shipping name<br>ADR, ADN, IMDG, IATA<br>14.3 Transport hazard class(es) | Void<br>Void   |
|---|--|
| ADR, ADN, IMDG, IATA<br>Class<br>14.4 Packing group<br>ADR, IMDG, IATA<br>14.5 Environmental hazards:                                     | Void<br>Void   |
| Marine pollutant:   | No   |
| 14.6 Special precautions for user   | Not applicable.                                      |
| 14.7 Maritime transport in bulk according to IMC  | <b>)</b>   |
| instruments   | Not applicable.                                      |
| Transport/Additional information:   | Not dangerous according to the above specifications. |
| UN "Model Regulation":  | Void   |

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Labelling according to Regulation (EC) No 1272/2008 *Void* Hazard pictograms *Void* Signal word *Void* Hazard statements *Void* 

Directive 2012/18/EU Named dangerous substances - ANNEX I Substance is not listed. 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### 16.3 Recommended restriction of use

Department issuing SDS: PCC-TWR Contact: MSDS.pcc@endress.com Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organisation ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO) ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

#### **.**. مام برد ~ h et

according to 1907/2006/EC, Article 31

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CAS: Chemical Abstracts Service (division of the American Chemical Society) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

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\* Data compared to the previous version altered.

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Version 8 (replaces version 7)

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

#### **1.1 Product identifier**

Trade name: <u>Isopropanol</u> Synonym: Isopropyl alcohol

Article number: 71064354\_4

**CAS Number:** 67-63-0 **EC number:** 200-661-7

Index number: 603-117-00-0

**1.2 Relevant identified uses of the substance or mixture and uses advised against** *No further relevant information available.* 

Application of the substance / the mixture Laboratory chemicals

#### **1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier:** *Endress+Hauser Conducta GmbH+Co. KG Dieselstraße 24 D-70839 Gerlingen*

Further information obtainable from:

Phone: +49 (0)7156 209-10117 E-Mail: MSDS.PCC @endress.com

1.4 Emergency telephone number: 0044 717 635 91 91

## **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008



Flam. Liq. 2 H225 Highly flammable liquid and vapour.



Eye Irrit. 2H319 Causes serious eye irritation.STOT SE 3H336 May cause drowsiness or dizziness.

**2.2 Label elements Labelling according to Regulation (EC) No 1272/2008** *The substance is classified and labelled according to the GB CLP regulation.* **Hazard pictograms** 



Signal word Danger

Hazard-determining components of labelling: propan-2-ol

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#### Trade name: Isopropanol

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|----------|----------------------|

(Contd. of page 1)

Hazard statements H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. **Precautionary statements** P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. 2.3 Other hazards The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

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

3.1 Substances **CAS No. Description** CAS: 67-63-0 propan-2-ol Identification number(s) EC number: 200-661-7 Index number: 603-117-00-0

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

#### 4.1 Description of first aid measures

General information: Immediately remove any clothing soiled by the product.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Immediately rinse with water.

#### After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: If symptoms persist consult doctor. 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: no further information

5.2 Special hazards arising from the substance or mixture No further relevant information available.

**5.3 Advice for firefighters** No further relevant information available.

Protective equipment: No special measures required.

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#### Trade name: Isopropanol

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(Contd. of page 2)

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SECTION 6: Accidental release measures
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#### 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away. Wear protective clothing.

#### 6.2 Environmental precautions:

Prevent seepage into sewage system, workpits and cellars. Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

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

7.1 Precautions for safe handling Keep receptacles tightly sealed. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Information about fire - and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

## 7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: Store in a cool location. Information about storage in one common storage facility: Not required. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles.

Storage class: 3

7.3 Specific end use(s) No further relevant information available.

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

#### 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

## CAS: 67-63-0 propan-2-ol

WEL Short-term value: 1250 mg/m<sup>3</sup>, 500 ppm Long-term value: 999 mg/m<sup>3</sup>, 400 ppm

Additional information: The lists valid during the making were used as basis.

#### 8.2 Exposure controls

Appropriate engineering controls *No further data; see item 7.* Individual protection measures, such as personal protective equipment

## General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes. Avoid contact with the eyes and skin.

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#### **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

#### Hand protection



Protective gloves

To avoid skin problems reduce the wearing of gloves to the required minimum. Only use chemical-protective gloves with CE-labelling of category III. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

#### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Nitrile rubber, NBR

#### Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### **Eye/face protection**



Tightly sealed goggles

Body protection: Protective work clothing

## **SECTION 9: Physical and chemical properties**

| 9.1 Information on basic physical and chemical properties |                         |  |
|---|-------------------------|--|
| General Information                                       |                         |  |
| Physical state  | Fluid                   |  |
| Colour:   | Clear                   |  |
| Odour:  | Alcohol-like            |  |
| Odour threshold:  | Not determined.         |  |
| Melting point/freezing point:                             | -89.5 °C                |  |
| Boiling point or initial boiling point and boiling        |                         |  |
| range   | 82 °C                   |  |
| Flammability  | Not applicable.         |  |
| Lower and upper explosion limit                           |                         |  |
| Lower:  | 2 Vol %                 |  |
| Upper:  | 12 Vol %                |  |
| Flash point:  | 13 °C                   |  |
| Ignition temperature:                                     | 425 °C                  |  |
| Decomposition temperature:                                | Not determined.         |  |
| рН  | Not determined.         |  |
| Viscosity:  |                         |  |
| Kinematic viscosity                                       | Not determined.         |  |
| Dynamic at 20 °C:   | 2.43 mPas               |  |
| Solubility  |                         |  |
| water at 20 °C:   | 1 g/l                   |  |
| Partition coefficient n-octanol/water (log value)         | Not determined.         |  |
| Vapour pressure at 20 °C:                                 | 43 hPa                  |  |
| Density and/or relative density                           |                         |  |
| Density at 20 °C:   | 0.785 g/cm <sup>3</sup> |  |
| Relative density  | Not determined.         |  |
|   |                         |  |

according to 1907/2006/EC, Article 31

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|-----------------------------------|--------------------------------|--------------------------|
| Trade name: Isopropanol           |                                |                          |
| Vanaur danaitu                    | Not determined.                | (Contd. of page 4)       |
| Vapour density                    | Not determined.                |                          |
| 9.2 Other information             |                                |                          |
| Appearance:                       |                                |                          |
| Form:                             | Liquid                         |                          |
| Important information on protecti | on of health                   |                          |
| and environment, and on safety.   |                                |                          |
| Auto-ignition temperature:        | Not determined.                |                          |
| Explosive properties:             |                                | e. However, formation of |
|                                   | explosive air/vapour mi        | xtures are possible.     |
| Organic solvents:                 | 100.0 %                        |                          |
| Solids content:                   | 0.0 %                          |                          |
| Change in condition               |                                |                          |
| Evaporation rate                  | Not determined.                |                          |
| Information with regard to physic | al hazard                      |                          |
| classes                           |                                |                          |
| Explosives                        | Void                           |                          |
| Flammable gases                   | Void                           |                          |
| Aerosols                          | Void                           |                          |
| Oxidising gases                   | Void                           |                          |
| Gases under pressure              | Void                           |                          |
| Flammable liquids                 | Highly flammable liquid        | and vapour.              |
| Flammable solids                  | Void                           |                          |
| Self-reactive substances and mix  | tures Void                     |                          |
| Pyrophoric liquids                | Void                           |                          |
| Pyrophoric solids                 | Void                           |                          |
| Self-heating substances and mixt  | ures Void                      |                          |
| Substances and mixtures, which    | emit flammable                 |                          |
| gases in contact with water       | Void                           |                          |
|                                   |                                |                          |

Void

Void

Void

Void

Void

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

10.1 Reactivity No further relevant information available.

**10.2 Chemical stability** 

**Oxidising liquids** 

**Oxidising solids** 

**Organic peroxides** 

**Corrosive to metals** 

**Desensitised explosives** 

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.

**10.4 Conditions to avoid** No further relevant information available.

**10.5 Incompatible materials:** No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

## **SECTION 11: Toxicological information**

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

#### LD/LC50 values relevant for classification:

| CAS: 67-63-0 propan-2-ol   |          |                    |
|--|----------|--------------------|
| Oral   | LD50     | 5,045 mg/kg (rat)  |
| Dermal   | LD50     | 12,800 mg/kg (rbt) |
| Inhalative   | LC50/4 h | 30 mg/l (rat)      |
| Oralization from the first from Oral and the first of the first of the first |          |                    |

Serious eye damage/irritation Causes serious eye irritation.

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#### Trade name: Isopropanol

**STOT-single exposure** *May cause drowsiness or dizziness.* **11.2 Information on other hazards** 

## Endocrine disrupting properties

Substance is not listed.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability No further relevant information available.

**12.3 Bioaccumulative potential** No further relevant information available.

**12.4 Mobility in soil** *No further relevant information available.* 

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

## **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects Additional ecological information:

#### General notes:

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## **SECTION 13: Disposal considerations**

# 13.1 Waste treatment methods Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

**Uncleaned packaging:** 

**Recommendation:** Disposal must be made according to official regulations. **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

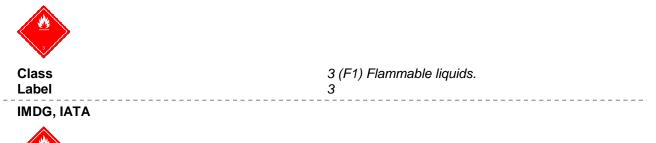
## **SECTION 14: Transport information**

14.1 UN number or ID number IMDG, IATA 14.2 UN proper shipping name ADR IMDG IATA 14.3 Transport hazard class(es)

UN1219

UN1219 ISOPROPANOL (ISOPROPYL ALCOHOL) ISOPROPANOL (ISOPROPYL ALCOHOL) Isopropanol (isopropyl alcohol)

ADR





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#### Trade name: Isopropanol

|        |   | (Contd. of page 6)   |
|--------|---|--|
| Label  |   | 3  |
| 14.4 P | acking group                                |  |
| ADR,   | IMDG, IATA                                  | 11   |
| 14.5 E | nvironmental hazards:                       | Not applicable.  |
| 14.6 S | pecial precautions for user                 | Warning: Flammable liquids.  |
| Hazar  | d identification number (Kemler code):      | 33   |
| EMS N  | Number:                                     | 3-06   |
| Stowa  | ige Category                                | В  |
| 14.7 N | laritime transport in bulk according to IMO |  |
| instru | ments                                       | Not applicable.  |
| Trans  | port/Additional information:                |  |
| ADR    |   |  |
| Limite | ed quantities (LQ)                          | 1L   |
| Trans  | port category                               | 2  |
| Tunne  | el restriction code                         | D/E  |
| IMDG   |   |  |
| Limite | ed quantities (LQ)                          | 1L   |
| Excep  | ted quantities (EQ)                         | Code: E2   |
| UN "N  | Iodel Regulation":                          | Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml<br>UN 1219 ISOPROPANOL (ISOPROPYL ALCOHOL),<br>3, II |

## **SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Labelling according to Regulation (EC) No 1272/2008** The substance is classified and labelled according to the GB CLP regulation. Hazard pictograms



Signal word Danger

Hazard-determining components of labelling: propan-2-ol **Hazard statements** H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. **Precautionary statements** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No P210 smoking. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Directive 2012/18/EU Named dangerous substances - ANNEX I Substance is not listed. Seveso category P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t

according to 1907/2006/EC, Article 31

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Trade name: Isopropanol

(Contd. of page 7)

## Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t

#### National regulations:

Waterhazard class: Water hazard class 1 (Assessment by list): slightly hazardous for water. 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### 16.3 Recommended restriction of use

Department issuing SDS: PCC-TWR Contact: MSDS.pcc@endress.com

#### Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organisation ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO) ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 \* Data compared to the previous version altered.

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People for Process Automation Version 3 (replaces version 2)

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

#### **1.1 Product identifier**

Trade name: <u>Standard solution NO3-N</u> Synonym: 20 mg/l

Article number: CAY342V10C20AAE

**1.2 Relevant identified uses of the substance or mixture and uses advised against** *No further relevant information available.* 

Application of the substance / the mixture Laboratory chemicals

**1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier:** Endress+Hauser Conducta GmbH+Co. KG Dieselstraße 24 D-70839 Gerlingen

Further information obtainable from: Phone: +49 (0)7156 209-10117 E-Mail: MSDS.PCC @endress.com

1.4 Emergency telephone number: 0044 717 635 91 91

## **SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008** *The product is not classified, according to the GB CLP regulation.* 

2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 Void Hazard pictograms Void Signal word Void Hazard statements Void 2.3 Other hazards The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

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

**3.2 Mixtures Description:** *aqueous solution* 

**Dangerous components:** Void **Additional information:** For the wording of the listed hazard phrases refer to section 16.

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

4.1 Description of first aid measures

General information: No special measures required.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: If symptoms persist consult doctor.

Version 3 (replaces version 2)

#### Trade name: Standard solution NO3-N

**4.2 Most important symptoms and effects, both acute and delayed** *No further relevant information available.* 

#### **4.3 Indication of any immediate medical attention and special treatment needed** *No further relevant information available.*

## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: no further information

5.2 Special hazards arising from the substance or mixture No further relevant information available.

**5.3 Advice for firefighters** *No further relevant information available.* 

Protective equipment: No special measures required.

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

**6.1 Personal precautions, protective equipment and emergency procedures** *Wear protective clothing.* **6.2 Environmental precautions:** *Dilute with plenty of water.* 

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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

**7.1 Precautions for safe handling** *No special measures required.* **Information about fire - and explosion protection:** *No special measures required.* 

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: *No special requirements.* Information about storage in one common storage facility: *Not required.* Further information about storage conditions: *None.* Storage class: *12* 7.3 Specific end use(s) *No further relevant information available.* 

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

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Appropriate engineering controls *No further data; see item 7.* Individual protection measures, such as personal protective equipment

#### General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection: Not required.

Hand protection No chemical-protective gloves required.

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Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Fluid

According to product specification

Eye/face protection Not required.

**General Information Physical state** 

**Odour threshold:** 

Colour:

Odour:

range

Lower:

Upper:

Flammability

Flash point:

pH at 20 °C

**Kinematic viscosity** 

Density at 20 °C:

**Relative density** 

Vapour density

Appearance:

Form:

Water:

9.2 Other information

**Explosive properties:** 

Solvent content:

Solids content:

Change in condition **Evaporation rate** 

Viscosity:

**Dynamic:** 

Solubility water:

**Body protection:** Protective work clothing

## **SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties

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Odourless Not determined. Melting point/freezing point: Undetermined. Boiling point or initial boiling point and boiling 100 °C Not applicable. Lower and upper explosion limit Not determined. Not determined. Not applicable. **Decomposition temperature:** Not determined. <2 Not determined. Not determined. Fully miscible. Partition coefficient n-octanol/water (log value) Not determined. Vapour pressure at 20 °C: 23 hPa Density and/or relative density 1.001 a/cm<sup>3</sup> Not determined. Not determined. Fluid Important information on protection of health and environment, and on safety. Auto-ignition temperature: Product is not selfigniting. Product does not present an explosion hazard. Not determined. 99.9 % 0.0 % Not determined.

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| Information with regard to physical hazard classes |      |
|--|------|
| Explosives   | Void |
| Flammable gases                                    | Void |
| Aerosols   | Void |
| Oxidising gases                                    | Void |
| Gases under pressure                               | Void |
| Flammable liquids                                  | Void |
| Flammable solids                                   | Void |
| Self-reactive substances and mixtures              | Void |
| Pyrophoric liquids                                 | Void |
| Pyrophoric solids                                  | Void |
| Self-heating substances and mixtures               | Void |
| Substances and mixtures, which emit flammable      |      |
| gases in contact with water                        | Void |
| Oxidising liquids                                  | Void |
| Oxidising solids                                   | Void |
| Organic peroxides                                  | Void |
| Corrosive to metals                                | Void |
| Desensitised explosives                            | Void |

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

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.

**10.4 Conditions to avoid** *No further relevant information available.* 

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

## **SECTION 11: Toxicological information**

11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

## **SECTION 12: Ecological information**

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

**12.2 Persistence and degradability** No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

## 12.7 Other adverse effects

## Additional ecological information:

## **General notes:**

Not hazardous for water.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

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## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Recommendation Smaller quantities can be disposed of with household waste.

**Uncleaned packaging:** 

**Recommendation:** Disposal must be made according to official regulations. **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

## **SECTION 14: Transport information**

| 14.1 UN number or ID number<br>ADN, IMDG, IATA<br>14.2 UN proper shipping name<br>ADR, ADN, IMDG, IATA<br>14.3 Transport hazard class(es) | Void<br>Void   |
|---|--|
| ADR, ADN, IMDG, IATA<br>Class<br>14.4 Packing group<br>ADR, IMDG, IATA  | Void   |
| 14.5 Environmental hazards:<br>Marine pollutant:<br>14.6 Special precautions for user   | No   |
| 14.6 Special precations for user<br>14.7 Maritime transport in bulk according to IMC<br>instruments                                       | Not applicable.<br><b>)</b><br>Not applicable.               |
| Transport/Additional information:<br>UN "Model Regulation":   | Not dangerous according to the above specifications.<br>Void |

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Labelling according to Regulation (EC) No 1272/2008 *Void* Hazard pictograms *Void* Signal word *Void* Hazard statements *Void* 

Directive 2012/18/EU Named dangerous substances - ANNEX I None of the ingredients is listed. 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### 16.3 Recommended restriction of use

Department issuing SDS: PCC-TWR Contact: MSDS.pcc@endress.com Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

\* Data compared to the previous version altered.