| 19.09.2024 | Kit Components |
|---------------|--|
| Product code | Description |
| CAY546-VxxAAH | CA7xCL Reagent set for total chlorine |
| Components: | |
| 51513037 | Reagent CL1, Component 1 for chlorine |
| 51513039 | Reagent CL1, Component 2 for chlorine |
| 51513040 | Reagent CL2, Component 1 for chlorine |
| 51513041 | Reagent CL2, Component 2 for chlorine |

Printing date 19.09.2024

according to Regulation (EC) No 1907/2006, Article 31

Version 7 (replaces version 6)

Endress+Hauser 🖪

People for Process Automation

Revision: 19.09.2024

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

1.1 Product identifier

Trade name: <u>Reagent CL1, Component 1</u> Synonym: for chlorine

Article number: 51513037

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: 0091-26589391

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures
Description: Mixture of non-hazardous substances
Demonstration Visid

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

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Trade name: Reagent CL1, Component 1

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No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions. 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:** *Do not allow to enter sewers/ surface or ground water.*

6.3 Methods and material for containment and cleaning up: Pick up mechanically.

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 *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: *13* 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 section 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.

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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Trade name: Reagent CL1, Component 1

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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

| 9.1 Information on basic physical and chemical General Information | properties |
|---|---|
| Physical state | Solid |
| Colour: | White |
| Odour: | Odourless |
| Odour threshold: | Not determined. |
| Melting point/freezing point: | Undetermined. |
| Boiling point or initial boiling point and boiling | Shaddiniined. |
| range | Undetermined. |
| Flammability | Not determined. |
| Lower and upper explosion limit | Not dotominou. |
| Lower: | Not determined. |
| Upper: | Not determined. |
| Flash point: | Not applicable. |
| pH | Not applicable. |
| Viscosity: | |
| Kinematic viscosity | Not applicable. |
| Dynamic: | Not applicable. |
| Solubility | |
| water: | Soluble. |
| Partition coefficient n-octanol/water (log value) | Not determined. |
| Vapour pressure: | Not applicable. |
| Density and/or relative density | |
| Density: | Not determined. |
| Relative density | Not determined. |
| Vapour density | Not applicable. |
| 9.2 Other information | |
| | |
| Appearance: Form: | Powder |
| Important information on protection of health | rowder |
| and environment, and on safety. | |
| Ignition temperature: | Product is not selfigniting. |
| Explosive properties: | Product does not present an explosion hazard. |
| | Not determined. |
| Solvent content: | |
| Solids content: | 100.0 % |
| Change in condition | |
| Evaporation rate | Not applicable. |
| • | |
| Information with regard to physical hazard classes | |
| | Void |
| Explosives Flammable gases | Void Void |
| Aerosols | Void Void |
| Aerosols Oxidising gases | Void Void |
| Gases under pressure | Void |
| Flammable liquids | Void |
| Flammable solids | Void |
| Self-reactive substances and mixtures | Void |
| | |

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Trade name: Reagent CL1, Component 1

| | | (Contd. of page 3 |
|---|-------|-------------------|
| Pyrophoric liquids | Void | |
| Pyrophoric solids | Void | |
| Self-heating substances and mixtures | Void | |
| Substances and mixtures, which emit flamn | nable | |
| 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

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

Acute toxicity Based on available data, the classification criteria are not met. Skin corrosion/irritation Based on available data, the classification criteria are not met. Serious eye damage/irritation Based on available data, the classification criteria are not met. Respiratory or skin sensitisation Based on available data, the classification criteria are not met. Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met. Reproductive toxicity Based on available data, the classification criteria are not met. STOT-single exposure Based on available data, the classification criteria are not met. STOT-repeated exposure Based on available data, the classification criteria are not met. Aspiration hazard Based on available data, the classification criteria are not met. 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:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

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3)

according to Regulation (EC) No 1907/2006, Article 31

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Trade name: Reagent CL1, Component 1

(Contd. of page 4) 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 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 | |
| ADN, IMDG, IATA | Void |
| 14.2 UN proper shipping name ADR, ADN, IMDG, IATA | Void |
| 14.3 Transport hazard class(es) | |
| ADR, ADN, IMDG, IATA | |
| Class | Void |
| 14.4 Packing group | |
| ADR, IMDG, IATA | Void |
| 14.5 Environmental hazards: | |
| Marine pollutant: | No |
| 14.6 Special precautions for user | Not applicable. |
| 14.7 Maritime transport in bulk according to IMC | |
| instruments | Not applicable. |
| Transport/Additional information: UN "Model Regulation": | Not dangerous according to the above specifications. 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.

National regulations:

Waterhazard class: Water hazard class 1 (Self-assessment): 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: 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

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Trade name: Reagent CL1, Component 1

| 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 | (Contd. of page 5) |
|---|--------------------|
| vPvB: very Persistent and very Bioaccumulative | |
| * Data compared to the previous version altered. | |
| | |

Printing date 19.09.2024

according to Regulation (EC) No 1907/2006, Article 31

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People for Process Automation

Revision: 19.09.2024

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

1.1 Product identifier

Trade name: <u>Reagent CL1, Component 2</u> Synonym: for chlorine

Article number: 51513039

CAS Number: 7681-11-0 **EC number:** 231-659-4

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: 0091-26589391

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 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: 7681-11-0 potassium iodide Identification number(s) EC number: 231-659-4

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: No special measures required.

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Trade name: Reagent CL1, Component 2

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: Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up: Pick up mechanically.

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: *11* 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.

| DNELs | | | |
|------------|-------------------------|---|-------------------|
| CAS: 768 | 1-11-0 potassium iodide | | |
| Oral | DNEL long term exposure | 0.01 mg/kg /bw/day (consumer) (systemic effect) | |
| Dermal | DNEI long term | 1 mg/kg /bw/day (worker) (systemic effect) | |
| | | 1 mg/kg /bw/day (consumer) (systemic effect) | |
| Inhalative | DNEL long-term | 0.07 mg/m³ (worker) (systemic effect) | Contra on pogo 2) |

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Trade name: Reagent CL1, Component 2

| | | 0.035 mg/m ³ (consumer) (systemic effect) |
|----------|-------------------------|--|
| PNECs | | |
| CAS: 768 | 1-11-0 potassium iodide | |

PNEC 0.007 mg/L (fresh water)

PNEC 0.007 mg/kg (freshwater sediment)

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

8.2 Exposure controls

Appropriate engineering controls *No further data;* see section 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.

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 General Information | properties | |
|---|---------------------------|--------------------|
| Physical state | Solid | |
| Colour: | White | |
| Odour: | Odourless | |
| Odour threshold: | Not determined. | |
| Melting point/freezing point: | 681 °C | |
| Boiling point or initial boiling point and boiling | | |
| range | 1.330 °C | |
| Flammability | Product is not flammable. | |
| Lower and upper explosion limit | | |
| Lower: | Not determined. | |
| Upper: | Not determined. | |
| Flash point: | Not applicable. | |
| Decomposition temperature: | Not determined. | |
| pH | Not applicable. | |
| Viscosity: | | |
| Kinematic viscosity | Not applicable. | |
| Dynamic: | Not applicable. | |
| Solubility | | |
| water at 20 °C: | 1.4 g/l | |
| Partition coefficient n-octanol/water (log value) | Not determined. | |
| Vapour pressure: | Not applicable. | |
| Density and/or relative density | | |
| Density at 20 °C: | 3.13 g/cm³ | |
| Relative density | Not determined. | |
| Vapour density | Not applicable. | |
| | | (Contd. on page 4) |

(Contd. of page 2)

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Version 8 (replaces version 7)

Trade name: Reagent CL1, Component 2

| 9.2 Other information Appearance: Form: Solid material Important information on protection of health and environment, and on safety. Ignition temperature: Not determined. Explosive properties: Product does not present an explosion hazard. Not determined. Solids content: 100.0 % Molecular weight 166.01 g/mol Change in condition Evaporation rate Evaporation rate Not applicable. Information with regard to physical hazard Classes Explosives Void Flammable gases Void Aerosols Void Gases under pressure Void Flammable solids Void Flammable solids Void Self-reactive substances and mixtures Void Pyrophoric liquids Void Pyrophoric solids Void Self-heating substances and mixtures Void Self-heating substances and mixtures Void Substances and mixtures, which emit flammable gases in contact with water | | (Conta. or page |
|---|---|---|
| Form:Solid materialImportant information on protection of health and environment, and on safety.Not determined.Ignition temperature:Not determined.Explosive properties:Product does not present an explosion hazard. Not determined.Solids content:100.0 %Molecular weight166.01 g/molChange in conditionEvaporation rateEvaporation rateNot applicable.Information with regard to physical hazard classesExplosivesVoidFlammable gasesVoidAerosolsVoidOxidising gasesVoidGases under pressureVoidFlammable liquidsVoidFlammable solidsVoidFlammable solidsVoidSelf-reactive substances and mixturesVoidPyrophoric liquidsVoidPyrophoric solidsVoidSubstances and mixtures, which emit flammableVoid | 9.2 Other information | |
| Form:Solid materialImportant information on protection of health and environment, and on safety.Not determined.Ignition temperature:Not determined.Explosive properties:Product does not present an explosion hazard. Not determined.Solids content:100.0 %Molecular weight166.01 g/molChange in conditionEvaporation rateEvaporation rateNot applicable.Information with regard to physical hazard classesExplosivesVoidFlammable gasesVoidAerosolsVoidOxidising gasesVoidGases under pressureVoidFlammable liquidsVoidFlammable solidsVoidFlammable solidsVoidSelf-reactive substances and mixturesVoidPyrophoric liquidsVoidPyrophoric solidsVoidSubstances and mixtures, which emit flammableVoid | Appearance: | |
| and environment, and on safety.Ignition temperature:Not determined.Explosive properties:Product does not present an explosion hazard. Not determined.Solids content:100.0 %Molecular weight166.01 g/molChange in conditionEvaporation rateEvaporation rateNot applicable.Information with regard to physical hazard classesExplosivesExplosivesVoidFlammable gasesVoidAerosolsVoidOxidising gasesVoidGases under pressureVoidFlammable liquidsVoidFlammable solidsVoidFlammable solidsVoidPyrophoric liquidsVoidPyrophoric solidsVoidSelf-heating substances and mixturesVoidSelf-heating substances and mixturesVoidSubstances and mixtures, which emit flammableVoid | • • | Solid material |
| and environment, and on safety.Ignition temperature:Not determined.Explosive properties:Product does not present an explosion hazard. Not determined.Solids content:100.0 %Molecular weight166.01 g/molChange in conditionEvaporation rateEvaporation rateNot applicable.Information with regard to physical hazard classesExplosivesExplosivesVoidFlammable gasesVoidAerosolsVoidOxidising gasesVoidGases under pressureVoidFlammable liquidsVoidFlammable solidsVoidFlammable solidsVoidPyrophoric liquidsVoidPyrophoric solidsVoidSelf-heating substances and mixturesVoidSelf-heating substances and mixturesVoidSubstances and mixtures, which emit flammableVoid | Important information on protection of health | |
| Ignition temperature:Not determined.Explosive properties:Product does not present an explosion hazard. Not determined.Solids content:100.0 %Molecular weight166.01 g/molChange in conditionImformation with regard to physical hazard classesEvaporation rateNot applicable.Information with regard to physical hazard classesVoidFlammable gasesVoidAerosolsVoidOxidising gasesVoidGases under pressureVoidFlammable solidsVoidFlammable solidsVoidPyrophoric liquidsVoidPyrophoric solidsVoidSelf-heating substances and mixturesVoidSelf-heating substances and mixturesVoidSubstances and mixtures, which emit flammableVoid | | |
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| Not determined.Solids content:100.0 %Molecular weight166.01 g/molChange in conditionInformation mateEvaporation rateNot applicable.Information with regard to physical hazardInformation with regard to physical hazardclassesExplosivesExplosivesVoidFlammable gasesVoidAerosolsVoidOxidising gasesVoidGases under pressureVoidFlammable liquidsVoidFlammable solidsVoidSelf-reactive substances and mixturesVoidPyrophoric solidsVoidSelf-heating substances and mixturesVoidSubstances and mixtures, which emit flammableVoid | | Product does not present an explosion hazard. |
| Molecular weight166.01 g/molChange in conditionNot applicable.Evaporation rateNot applicable.Information with regard to physical hazardVoidclassesVoidExplosivesVoidFlammable gasesVoidAerosolsVoidOxidising gasesVoidGases under pressureVoidFlammable liquidsVoidFlammable solidsVoidSelf-reactive substances and mixturesVoidPyrophoric liquidsVoidPyrophoric solidsVoidSelf-heating substances and mixturesVoidSubstances and mixtures, which emit flammableVoid | | |
| Change in conditionEvaporation rateNot applicable.Information with regard to physical hazardclassesExplosivesVoidFlammable gasesVoidAerosolsVoidOxidising gasesVoidGases under pressureVoidFlammable liquidsVoidFlammable solidsVoidSelf-reactive substances and mixturesVoidPyrophoric liquidsVoidSelf-heating substances and mixturesVoidSelf-heating substances and mixturesVoidSubstances and mixtures, which emit flammableVoid | Solids content: | 100.0 % |
| Change in conditionEvaporation rateNot applicable.Information with regard to physical hazardclassesExplosivesVoidFlammable gasesVoidAerosolsVoidOxidising gasesVoidGases under pressureVoidFlammable liquidsVoidFlammable solidsVoidSelf-reactive substances and mixturesVoidPyrophoric liquidsVoidSelf-heating substances and mixturesVoidSelf-heating substances and mixturesVoidSubstances and mixtures, which emit flammableVoid | Molecular weight | 166.01 g/mol |
| Information with regard to physical hazard classes Explosives Void Flammable gases Void Aerosols Void Oxidising gases Void Oxidising gases Void Gases under pressure Void Flammable liquids Void Flammable solids Void Self-reactive substances and mixtures Void Pyrophoric liquids Void Self-heating substances and mixtures Void Self-heating substances and mixtures Void | Change in condition | C C |
| classesExplosivesVoidFlammable gasesVoidAerosolsVoidOxidising gasesVoidGases under pressureVoidFlammable liquidsVoidFlammable solidsVoidSelf-reactive substances and mixturesVoidPyrophoric liquidsVoidSelf-heating substances and mixturesVoidSelf-heating substances and mixturesVoidSubstances and mixtures, which emit flammableVoid | Evaporation rate | Not applicable. |
| classesExplosivesVoidFlammable gasesVoidAerosolsVoidOxidising gasesVoidGases under pressureVoidFlammable liquidsVoidFlammable solidsVoidSelf-reactive substances and mixturesVoidPyrophoric liquidsVoidSelf-heating substances and mixturesVoidSelf-heating substances and mixturesVoidSubstances and mixtures, which emit flammableVoid | Information with regard to physical bazard | |
| ExplosivesVoidFlammable gasesVoidAerosolsVoidOxidising gasesVoidGases under pressureVoidFlammable liquidsVoidFlammable solidsVoidSelf-reactive substances and mixturesVoidPyrophoric liquidsVoidPyrophoric solidsVoidSelf-heating substances and mixturesVoidSubstances and mixturesVoid | | |
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| Flammable liquidsVoidFlammable solidsVoidSelf-reactive substances and mixturesVoidPyrophoric liquidsVoidPyrophoric solidsVoidSelf-heating substances and mixturesVoidSubstances and mixtures, which emit flammableVoid | | |
| Flammable solidsVoidSelf-reactive substances and mixturesVoidPyrophoric liquidsVoidPyrophoric solidsVoidSelf-heating substances and mixturesVoidSubstances and mixtures, which emit flammableVoid | • | |
| Self-reactive substances and mixturesVoidPyrophoric liquidsVoidPyrophoric solidsVoidSelf-heating substances and mixturesVoidSubstances and mixtures, which emit flammable | • | |
| Pyrophoric liquidsVoidPyrophoric solidsVoidSelf-heating substances and mixturesVoidSubstances and mixtures, which emit flammable | | |
| Pyrophoric solidsVoidSelf-heating substances and mixturesVoidSubstances and mixtures, which emit flammable | Pyrophoric liquids | Void |
| Self-heating substances and mixtures Void Substances and mixtures, which emit flammable | | Void |
| Substances and mixtures, which emit flammable | | Void |
| gases in contact with water Void | | • |
| | gases in contact with water | Void |
| Oxidising liquids Void | Oxidising liquids | Void |
| Oxidising solids Void | | Void |
| Organic peroxides Void | • | Void |
| Corrosive to metals Void | | |
| Desensitised explosives 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

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

Acute toxicity Based on available data, the classification criteria are not met. Skin corrosion/irritation Based on available data, the classification criteria are not met. Serious eye damage/irritation Based on available data, the classification criteria are not met. Respiratory or skin sensitisation Based on available data, the classification criteria are not met. Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met. Reproductive toxicity Based on available data, the classification criteria are not met. STOT-single exposure Based on available data, the classification criteria are not met. STOT-repeated exposure Based on available data, the classification criteria are not met. Aspiration hazard Based on available data, the classification criteria are not met.

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according to Regulation (EC) No 1907/2006, Article 31

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Version 8 (replaces version 7)

Trade name: Reagent CL1, Component 2

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 3 (German Regulation) (Assessment by list): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

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

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Version 8 (replaces version 7)

Trade name: Reagent CL1, Component 2

Signal word Void Hazard statements Void

Directive 2012/18/EU Named dangerous substances - ANNEX I Substance is not listed.

National regulations:

Waterhazard class: Water hazard class 3 (Assessment by list): extremely 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: 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) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative * Data compared to the previous version altered. IND

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Version 6 (replaces version 5)

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People for Process Automation

Revision: 19.09.2024

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

1.1 Product identifier

Trade name: <u>Reagent CL2, Component 1</u> Synonym: for chlorine

Article number: 51513040

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: 0091-26589391

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



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Trade name: Reagent CL2, Component 1

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No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions. 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

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 section 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.

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.

according to Regulation (EC) No 1907/2006, Article 31

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Trade name: Reagent CL2, Component 1

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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

| 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: | 0 °C | |
| 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. | |
| pH at 20 °C | <2 | |
| Viscosity: | | |
| Kinematic viscosity | Not determined. | |
| Dynamic: | Not determined. | |
| Solubility | Not determined. | |
| | Fully missiple | |
| 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: | Fluid | |
| Important information on protection of health | | |
| and environment, and on safety. | | |
| Ignition temperature: | Product is not selfigniting. | |
| Explosive properties: | Product does not present an explosion hazard. | |
| | Not determined. | |
| Solvent content: | | |
| Water: | 99.8 % | |
| | | |
| Solids content: | 0.0 % | |
| Change in condition | | |
| Evaporation rate | Not determined. | |
| Information with regard to physical hazard | | |
| classes | | |
| | Void | |
| Explosives | | |
| Flammable gases | Void | |
| Aerosols | Void | |
| Oxidising gases | Void | |
| Gases under pressure | Void | |
| Flammable liquids | Void | |
| Flammable solids | Void | |
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Trade name: Reagent CL2, Component 1

| | | (Contd. of page 3) |
|---|-------|--------------------|
| Self-reactive substances and mixtures | Void | |
| Pyrophoric liquids | Void | |
| Pyrophoric solids | Void | |
| Self-heating substances and mixtures | Void | |
| Substances and mixtures, which emit flamn | nable | |
| 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

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

Acute toxicity Based on available data, the classification criteria are not met. Skin corrosion/irritation Based on available data, the classification criteria are not met. Serious eye damage/irritation Based on available data, the classification criteria are not met. Respiratory or skin sensitisation Based on available data, the classification criteria are not met. Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met. Reproductive toxicity Based on available data, the classification criteria are not met. STOT-single exposure Based on available data, the classification criteria are not met. STOT-repeated exposure Based on available data, the classification criteria are not met. 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.

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Trade name: Reagent CL2, Component 1

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.

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 ADN, IMDG, IATA 14.2 UN proper shipping name ADR, ADN, IMDG, IATA 14.3 Transport hazard class(es) | Void Void |
|---|--|
| ADR, ADN, IMDG, IATA Class 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: | Void Void |
| Marine pollutant: | No |
| 14.6 Special precautions for user | Not applicable. |
| 14.7 Maritime transport in bulk according to IMC |) |
| 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:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

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Trade name: Reagent CL2, Component 1

| 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. | Contd. of page 5) |
|---|-------------------|
| | ——— IND — |

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

1.1 Product identifier

Trade name: <u>Reagent CL2, Component 2</u> Synonym: for chlorine

Article number: 51513041

CAS Number: 6283-63-2 EC number: 228-500-6

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: 0091-26589391

SECTION 2: Hazards identification

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



Acute Tox. 4 H302 Harmful if swallowed.

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



Signal word Warning

Hazard-determining components of labelling:N,N-diethylbenzene-1,4-diammonium sulphateHazard statementsH302 Harmful if swallowed.Precautionary statementsP264Wash thoroughly after handling.P270Do not eat, drink or smoke when using this product.P301+P312IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.P330Rinse mouth.P501Dispose of contents/container in accordance with local/regional/national/international regulations.

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Trade name: Reagent CL2, Component 2

2.3 Other hazards 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: 6283-63-2 N,N-diethylbenzene-1,4-diammonium sulphate Identification number(s) EC number: 228-500-6

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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: Call for a doctor immediately. **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: Use fire extinguishing methods suitable to surrounding conditions. **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:** *Do not allow to enter sewers/ surface or ground water.*

6.3 Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to section 13.

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 *No special precautions are necessary if used correctly.* **Information about fire - and explosion protection:** *No special measures required.*

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Trade name: Reagent CL2, Component 2

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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: 11 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 section 7. Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work.

Respiratory protection: Not required.

Hand protection

To avoid skin problems reduce the wearing of gloves to the required minimum. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. 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.

Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

| 9.1 Information on basic physical and chemical properties General Information | | |
|--|---------------------------|--|
| Physical state | Solid | |
| Colour: | White | |
| Odour: | Odourless | |
| Odour threshold: | Not determined. | |
| Melting point/freezing point: | 184-187 °C | |
| Boiling point or initial boiling point and boiling | | |
| range | Undetermined. | |
| Flammability | Product is not flammable. | |
| Lower and upper explosion limit | | |
| Lower: | Not determined. | |
| Upper: | Not determined. | |
| Flash point: | Not applicable. | |
| рН | Not applicable. | |
| Viscosity: | | |
| Kinematic viscosity | Not applicable. | |
| Dynamic: | Not applicable. | |
| Solubility | | |
| water at 20 °C: | 1000 g/l | |

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Trade name: Reagent CL2, Component 2

| | (Contd. of page 3) |
|---|---|
| Partition coefficient n-octanol/water (log value) | Not determined. |
| Vapour pressure: | Not applicable. |
| Density and/or relative density | |
| Density at 20 °C: | 0.5 g/cm³ |
| Relative density | Not determined. |
| Vapour density | Not applicable. |
| 9.2 Other information | |
| Appearance: | |
| Form: | Crystalline powder |
| Important information on protection of health | |
| and environment, and on safety. | |
| Ignition temperature: | Not determined. |
| Explosive properties: | Product does not present an explosion hazard. |
| | Not determined. |
| Solids content: | 100.0 % |
| Molecular weight | 262.33 g/mol |
| Change in condition | |
| Evaporation rate | Not applicable. |
| • | |
| 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 | 9 |
| 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

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity *Harmful if swallowed.*

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according to Regulation (EC) No 1907/2006, Article 31

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Version 6 (replaces version 5)

Trade name: Reagent CL2, Component 2

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) (Self-assessment): 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 | | |
|--|-----------------|--|
| ADN, IMDG, IATA | Void | |
| 14.2 UN proper shipping name | | |
| ADR, ADN, IMDG, IATA | Void | |
| 14.3 Transport hazard class(es) | | |
| ADR, ADN, IMDG, IATA | | |
| Class | Void | |
| 14.4 Packing group | | |
| ADR, IMDG, IATA | Void | |
| 14.5 Environmental hazards: | Not applicable. | |
| 14.6 Special precautions for user | Not applicable. | |
| 14.7 Maritime transport in bulk according to IMO | | |
| instruments | Not applicable. | |
| 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

The substance is classified and labelled according to the CLP regulation.

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Trade name: Reagent CL2, Component 2

Hazard pictograms



Signal word Warning

Hazard-determining components of labelling:N,N-diethylbenzene-1,4-diammonium sulphateHazard statementsH302 Harmful if swallowed.Precautionary statementsP264Wash thoroughly after handling.P270Do not eat, drink or smoke when using this product.P301+P312IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.P330Rinse mouth.P501Dispose of contents/container in accordance with local/regional/national/international regulations.

Directive 2012/18/EU Named dangerous substances - ANNEX I Substance is not listed.

National regulations:

Waterhazard class: Water hazard class 1 (Self-assessment): 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: 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) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity – Category 4 * Data compared to the previous version altered.

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