20.09.2024	Kit Components
Product code	Description
CY80TP-FF+SH	CA80TP Reagent Set for total phosphate
Components:	
71251096B	CA80TP Reagent RB, Component 1
51509012D	CA80TP Reagent RK, Component 1
51509014D	CA80TP Reagent RN, Component 1

51509015D

51509017D

CA80TP Reagent RN, Component 2

CA80TP Reagent RN, Component 3

Endress + Hauser 🔣

Printing date 20.09.2024 Version 5 (replaces version 4)

Revision: 26.10.2022

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

#### 1.1 Product identifier

Trade name: CA80TP Reagent RB, Component 1

Article number: 71251096B

**CAS Number:** 7775-27-1 EC number: 231-892-1

**Registration number** 01-2119495975-15

UFI: P7S0-W0E1-J00X-CQ4D

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

Product category PC21 Laboratory chemicals

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:

00353 01 809 2166 (from 8 am to 10 pm, 7 days a week)

00353 01 809 2566 (24h)

## **SECTION 2: Hazards identification**

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



GHS03 flame over circle

Ox. Sol. 2 H272 May intensify fire; oxidiser.



GHS08 health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Skin Sens. 1 H317 May cause an allergic skin reaction.

## 2.2 Label elements

## Labelling according to Regulation (EC) No 1272/2008

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

(Contd. on page 2)

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

Printing date 20.09.2024 Version 5 (replaces version 4) Revision: 26.10.2022

Trade name: CA80TP Reagent RB, Component 1

(Contd. of page 1)

## Hazard pictograms







GHS03 GHS07 GHS08

## Signal word Danger

## Hazard-determining components of labelling:

sodium persulphate

#### **Hazard statements**

H272 May intensify fire: oxidiser.

H302 Harmful if swallowed.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

## **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P220 Keep away from clothing and other combustible materials.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P284 [In case of inadequate ventilation] wear respiratory protection.

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: 7775-27-1 sodium persulphate

Identification number(s) EC number: 231-892-1

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

#### 4.1 Description of first aid measures

#### **General information:**

Immediately remove any clothing soiled by the product.

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 and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

## After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Immediately rinse with water.

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.

(Contd. on page 3)

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

Printing date 20.09.2024 Version 5 (replaces version 4) Revision: 26.10.2022

Trade name: CA80TP Reagent RB, Component 1

(Contd. of page 2)

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:

Dispose contaminated material as waste according to section 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** *Ensure good ventilation/exhaustion at the workplace.* **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: 5.1 B

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: 7775-27-1 sodium persulphate

OEL (Ireland) Long-term value: 0.1 mg/m³

Sens

**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.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

(Contd. on page 4)

Printing date 20.09.2024 Version 5 (replaces version 4) Revision: 26.10.2022

Trade name: CA80TP Reagent RB, Component 1

(Contd. of page 3)

#### 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. 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.

Nitrile rubber, NBR Natural rubber, NR

## 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 stateSolidColour:ColourlessOdour:OdourlessOdour threshold:Not determined.Melting point/freezing point:Undetermined.

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.
Decomposition temperature: Not determined.
pH Slightly acidic

**Viscosity:** 

Kinematic viscosity

Not applicable.

Not applicable.

Solubility

water: Easily soluble.
Partition coefficient n-octanol/water (log value)
Vapour pressure: Not applicable.

Density and/or relative density

Density at 20 °C:1.1 g/cm³Relative densityNot determined.Vapour densityNot applicable.Particle characteristicsSee section 3.

(Contd. on page 5)

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

Printing date 20.09.2024 Version 5 (replaces version 4) Revision: 26.10.2022

Trade name: CA80TP Reagent RB, Component 1

(Contd. of page 4)

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 238.09 g/mol

Change in condition

**Evaporation rate** Not applicable.

Information with regard to physical hazard

classes

Void **Explosives** Flammable gases Void Void **Aerosols** 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

May intensify fire; oxidiser.

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.

LD/LC50 values relevant for classification:

CAS: 7775-27-1 sodium persulphate

Oral LD50 920 mg/kg (rat)

Skin corrosion/irritation Based on available data, the classification criteria are not met.

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

Respiratory or skin sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

(Contd. on page 6)

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

Printing date 20.09.2024 Version 5 (replaces version 4) Revision: 26.10.2022

Trade name: CA80TP Reagent RB, Component 1

(Contd. of page 5)

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**

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.

### European waste catalogue

16 05 06\* laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals

UN1505

**UN1505 SODIUM PERSULPHATE** 

SODIUM PERSULPHATE

Sodium persulphate

## **Uncleaned packaging:**

Recommendation: Disposal must be made according to official regulations.

## **SECTION 14: Transport information**

14.1 UN number or ID number

ADR, IMDG, IATA

14.2 UN proper shipping name

ADR

IATA

14.3 Transport hazard class(es)

ADR

**IMDG** 



Class 5.1 (O2) Oxidising substances.

(Contd. on page 7)

Printing date 20.09.2024 Version 5 (replaces version 4) Revision: 26.10.2022

Trade name: CA80TP Reagent RB, Component 1

Label 5.1

(Contd. of page 6)

IMDG, IATA



Class 5.1 Oxidising substances.

Label 5.1

14.4 Packing group

ADR, IMDG, IATA ///

**14.5 Environmental hazards:** Not applicable.

14.6 Special precautions for user Warning: Oxidising substances.

Hazard identification number (Kemler code): 50 F-A,S-Q

Stowage Category A

Segregation Code SG38 Stow "separated from" SGG2-ammonium

compounds.

SG49 Stow "separated from" SGG6-cyanides

14.7 Maritime transport in bulk according to IMO

instruments Not applicable.

Transport/Additional information:

**ADR** 

Limited quantities (LQ) 5 kg
Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g

Transport category 3
Tunnel restriction code E

**IMDG** 

Limited quantities (LQ) 5 kg
Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g

UN "Model Regulation": UN 1505 SODIUM PERSULPHATE, 5.1, III

## **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.

**Hazard pictograms** 







GHS03 GHS07 GHS08

Signal word Danger

Hazard-determining components of labelling:

sodium persulphate

**Hazard statements** 

H272 May intensify fire; oxidiser.

H302 Harmful if swallowed.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

(Contd. on page 8)

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

Printing date 20.09.2024 Version 5 (replaces version 4) Revision: 26.10.2022

Trade name: CA80TP Reagent RB, Component 1

(Contd. of page 7)

## **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P220 Keep away from clothing and other combustible materials.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P284 [In case of inadequate ventilation] wear respiratory protection.

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 P8 OXIDISING LIQUIDS AND SOLIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements  $50\ t$  Qualifying quantity (tonnes) for the application of upper-tier requirements  $200\ t$ 

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

Substance is not listed.

## **REGULATION (EU) 2019/1148**

# Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

Substance is not listed.

## Annex II - REPORTABLE EXPLOSIVES PRECURSORS

Substance is not listed.

#### Regulation (EC) No 273/2004 on drug precursors

Substance is not listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

Substance is not listed.

## **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
Date of previous version: 30.04.2021
Version number of previous version: 4

#### 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 routé (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

Ox. Sol. 2: Oxidizing solids - Category 2

Acute Tox. 4: Acute toxicity - Category 4

Resp. Sens. 1: Respiratory sensitisation - Category 1

(Contd. on page 9)

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

Printing date 20.09.2024 Version 5 (replaces version 4) Revision: 26.10.2022

Trade name: CA80TP Reagent RB, Component 1

(Contd. of page 8)

Page 9/9

Skin Sens. 1: Skin sensitisation – Category 1

\* Data compared to the previous version altered.

- IRL —

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Page 1/6

onle for Process Automation

Printing date 20.09.2024 Version 5 (replaces version 4) Revision: 26.10.2022

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

#### 1.1 Product identifier

Trade name: CA80TP Reagent RK, Component 1

Article number: 51509012D

**CAS Number:** 50-81-7 **EC number:** 200-066-2

## Registration number

A registration number for this substance is not available because the substance or its use is exempted from registration, the annual tonnage does not require registration or registration is foreseen for a later date.

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

Product category PC21 Laboratory chemicals

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:

00353 01 809 2166 (from 8 am to 10 pm, 7 days a week)

00353 01 809 2566 (24h)

## **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: 50-81-7 L (+) - ascorbic acid

Identification number(s) EC number: 200-066-2

(Contd. on page 2)

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

Printing date 20.09.2024 Version 5 (replaces version 4) Revision: 26.10.2022

Trade name: CA80TP Reagent RK, Component 1

(Contd. of page 1)

#### **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.

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.

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

(Contd. on page 3)

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

Printing date 20.09.2024 Version 5 (replaces version 4) Revision: 26.10.2022

Trade name: CA80TP Reagent RK, Component 1

(Contd. of page 2)

#### 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 properties

**General Information** 

Physical stateSolidColour:WhitishOdour:OdourlessOdour threshold:Not determined.

Melting point/freezing point: 191 °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.Decomposition temperature:Not determined.pHSlightly acidic

Viscosity:

**Kinematic viscosity Dynamic:**Not applicable.
Not applicable.

Solubility

water at 20 °C: 333  $\alpha$ //

Partition coefficient n-octanol/water (log value) Not determined. Vapour pressure: Not applicable.

Density and/or relative density

Density at 20 °C:0.95 g/cm³Relative densityNot determined.Vapour densityNot applicable.Particle characteristicsSee section 3.

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.

(Contd. on page 4)

Printing date 20.09.2024 Version 5 (replaces version 4) Revision: 26.10.2022

Trade name: CA80TP Reagent RK, Component 1

(Contd. of page 3)

**Solids content:** 100.0 % **Molecular weight** 176.13 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 gases in contact with water Void Oxidising liquids Void **Oxidising solids** Void

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

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

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.

Void

Void

Void

## **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.

LD/LC50 values relevant for classification:

CAS: 50-81-7 L (+) - ascorbic acid

Oral LD50 11,900 mg/kg (rat)

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.

(Contd. on page 5)

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

Printing date 20.09.2024 Version 5 (replaces version 4) Revision: 26.10.2022

Trade name: CA80TP Reagent RK, Component 1

(Contd. of page 4)

#### 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 Smaller quantities can be disposed of with household waste.

## European waste catalogue

16 05 09 discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08

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

ADR, 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

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 IMO

instruments Not applicable.

Transport/Additional information: Not dangerous according to the above specifications.

UN "Model Regulation": Void

(Contd. on page 6)

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

Printing date 20.09.2024 Version 5 (replaces version 4) Revision: 26.10.2022

Trade name: CA80TP Reagent RK, Component 1

(Contd. of page 5)

## **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.

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

Substance is not listed.

#### **REGULATION (EU) 2019/1148**

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

Substance is not listed.

#### Annex II - REPORTABLE EXPLOSIVES PRECURSORS

Substance is not listed.

## Regulation (EC) No 273/2004 on drug precursors

Substance is not listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

Substance is not listed.

## **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
Date of previous version: 30.04.2021
Version number of previous version: 4

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

<sup>\*</sup> Data compared to the previous version altered.

Endress+Hauser 🖾

People for Process Automation

Printing date 20.09.2024 Version 5 (replaces version 4) Revision: 20.09.2024

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

#### 1.1 Product identifier

Trade name: CA80TP Reagent RN, Component 1

Article number: 51509014D UFI: RDS0-W0SU-500X-PD9H

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

Product category PC21 Laboratory chemicals

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:

00353 01 809 2166 (from 8 am to 10 pm, 7 days a week)

00353 01 809 2566 (24h)

## **SECTION 2: Hazards identification**

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



GHS05 corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

## 2.2 Label elements

## Labelling according to Regulation (EC) No 1272/2008

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

## **Hazard pictograms**



## Signal word Danger

## Hazard-determining components of labelling:

sulphuric acid

#### Hazard statements

H314 Causes severe skin burns and eye damage.

### **Precautionary statements**

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.

P310 Immediately call a POISON CENTER/doctor. P321 Specific treatment (see on this label).

P321 Specific treatment (see P405 Store locked up.

(Contd. on page 2)

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

Printing date 20.09.2024 Version 5 (replaces version 4) Revision: 20.09.2024

## Trade name: CA80TP Reagent RN, Component 1

(Contd. of page 1)

P501

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Additional information:

Product contains: Restricted explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 5 (1) and (3).

## 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:** Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
CAS: 7664-93-9	sulphuric acid	30-50%
EINECS: 231-639-5	Skin Corr. 1A, H314	
Registration number: 01-	Špecific concentration limits: Skin Corr. 1A; H314: C ≥ 15 %	
2119458838-20-XXXX	Skin Irrit. 2; H315: 5 % ≤ C < 15	
	%	
	Eye Irrit. 2; H319: 5 % ≤ C < 15	
	%	

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: Immediately remove any clothing soiled by the product.

**After inhalation:** In case of unconsciousness place patient stably in side position for transportation.

#### After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Immediately rinse with water.

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing: Drink plenty of water and provide fresh air. 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:

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

During heating or in case of fire poisonous gases are produced.

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

Protective equipment: Mount respiratory protective device.

(Contd. on page 3)

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

Printing date 20.09.2024 Version 5 (replaces version 4) Revision: 20.09.2024

Trade name: CA80TP Reagent RN, Component 1

(Contd. of page 2)

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

## 6.1 Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

Wear protective clothing.

## 6.2 Environmental precautions:

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).

Use neutralising agent.

Dispose contaminated material as waste according to section 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

When diluting always pour product into water and not vice versa.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information about fire - and explosion protection: Keep respiratory protective device available.

## 7.2 Conditions for safe storage, including any incompatibilities

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: Keep container tightly sealed.

Storage class: 8 B

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: 7664-93-9 sulphuric acid		
OEL (Ireland)	Long-term value: 0.05 mg/m³ IOELV, thoracic fraction		
	IOELV, thoracic fraction		
IOELV (EU)	Long-term value: 0.05 mg/m³		
DNELs			

7	Λ	Ċ	7

## CAS: 7664-93-9 sulphuric acid

Inhalative	DNEL short-term	0.1 mg/m³ (worker) (local effects)		
	DNEL long-term	0.05 mg/m³ (worker) (local effects)		

#### **PNECs**

#### CAS: 7664-93-9 sulphuric acid

$PNEC \mid 8.8 \text{ mg/L}$	(Wastewater	treatment	t plant)
------------------------------	-------------	-----------	----------

0.25 mg/L (sea water) PNEC 2.5 µg/L (fresh water)

PNEC 2 µg/kg (marine sediment)

2 µg/kg (freshwater sediment)

(Contd. on page 4)

Printing date 20.09.2024 Version 5 (replaces version 4) Revision: 20.09.2024

Trade name: CA80TP Reagent RN, Component 1

(Contd. of page 3)

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.

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.

## 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**

Nitrile rubber, NBR

Chloroprene rubber, CR

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



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: 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.

(Contd. on page 5)

(Contd. of page 4)

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

Printing date 20.09.2024 Version 5 (replaces version 4) Revision: 20.09.2024

Trade name: CA80TP Reagent RN, Component 1

**Decomposition temperature:** Not determined.

pH at 20 °C <1

Viscosity:

**Kinematic viscosity Dynamic:**Not determined.
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: 1.42 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: 50.0 % Solids content: 0.0 %

Change in condition

**Evaporation rate**Not determined.

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.

(Contd. on page 6)

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

Printing date 20.09.2024 Version 5 (replaces version 4) Revision: 20.09.2024

Trade name: CA80TP Reagent RN, Component 1

(Contd. of page 5)

**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 Causes severe skin burns and eye damage.

Serious eye damage/irritation Causes serious eye damage.

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 Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

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

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

## European waste catalogue

16 05 06\* laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals

## Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

(Contd. on page 7)

Printing date 20.09.2024 Version 5 (replaces version 4) Revision: 20.09.2024

UN2796

**UN2796 SULPHURIC ACID** 

SULPHURIC ACID

Sulphuric acid

Trade name: CA80TP Reagent RN, Component 1

(Contd. of page 6)

## **SECTION 14: Transport information**

14.1 UN number or ID number

ADR, IMDG, IATA

14.2 UN proper shipping name

ADR

IMDG IATA

14.3 Transport hazard class(es)

**ADR** 



Class 8 (C1) Corrosive substances.

Label 8

IMDG, IATA



Class 8 Corrosive substances.

Label 8

14.4 Packing group

ADR, IMDG, IATA //

**14.5 Environmental hazards:** Not applicable.

14.6 Special precautions for user Warning: Corrosive substances.

Hazard identification number (Kemler code): 80 EMS Number: F-A,S-B

Segregation groups (SGG1a) Strong acids

Stowage Category B

Segregation Code SG36 Stow "separated from" SGG18-alkalis. SG49 Stow "separated from" SGG6-cyanides

14.7 Maritime transport in bulk according to IMO

instruments Not applicable.

**Transport/Additional information:** 

**ADR** 

Limited quantities (LQ) 1L

Excepted quantities (EQ) Code: E2

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

Transport category 2
Tunnel restriction code E

**IMDG** 

Limited quantities (LQ) 1L

Excepted quantities (EQ) Code: E2

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

UN 2796 SULPHURIC ACID, 8, II

(Contd. on page 8)

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

Printing date 20.09.2024 Version 5 (replaces version 4) Revision: 20.09.2024

Trade name: CA80TP Reagent RN, Component 1

(Contd. of page 7)

## **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 product is classified and labelled according to the CLP regulation.

#### **Hazard pictograms**



## Signal word Danger

## Hazard-determining components of labelling:

sulphuric acid

#### **Hazard statements**

H314 Causes severe skin burns and eye damage.

#### **Precautionary statements**

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.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

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 None of the ingredients is listed. REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II

None of the ingredients is listed.

#### **REGULATION (EU) 2019/1148**

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing	П
under Article 5(3))	

CAS: 7664-93-9 sulphuric acid Limit value: >15-≤40 %

## **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

## Regulation (EC) No 273/2004 on drug precursors

CAS: 7664-93-9 sulphuric acid

## Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

CAS: 7664-93-9 sulphuric acid

3

#### **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.

(Contd. on page 9)

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

Printing date 20.09.2024 Version 5 (replaces version 4) Revision: 20.09.2024

Trade name: CA80TP Reagent RN, Component 1

(Contd. of page 8)

#### 16.1 Relevant phrases

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

16.3 Recommended restriction of use

Department issuing SDS: PCC-TWR
Contact: MSDS.pcc @endress.com
Date of previous version: 30.04.2021
Version number of previous version: 4

## 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

ELINCS: European List of Notified 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

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

\* Data compared to the previous version altered.

- IRL -

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Page 1/7

People for Process Automation

Printing date 20.09.2024 Version 4 (replaces version 3) Revision: 20.09.2024

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

1.1 Product identifier

Trade name: CA80TP Reagent RN, Component 2

Article number: 51509015D

CAS Number: 12054-85-2 EC number: 234-722-4

Registration number 01-2119498057-28-XXXX

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

Product category PC21 Laboratory chemicals

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:

00353 01 809 2166 (from 8 am to 10 pm, 7 days a week)

00353 01 809 2566 (24h)

## **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: 12054-85-2 Ammonium heptamolybdate tetrahydrate

Identification number(s) EC number: 234-722-4

(Contd. on page 2)

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

Printing date 20.09.2024 Version 4 (replaces version 3) Revision: 20.09.2024

Trade name: CA80TP Reagent RN, Component 2

(Contd. of page 1)

## **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.

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.

(Contd. on page 3)

Printing date 20.09.2024 Version 4 (replaces version 3) Revision: 20.09.2024

Trade name: CA80TP Reagent RN, Component 2

(Contd. of page 2)

**DNELs** 

CAS: 12054-85-2 Ammonium heptamolybdate tetrahydrate

Inhalative DNEL long-term 13.36 mg/m³ (worker) (systemic effect)

**PNECs** 

CAS: 12054-85-2 Ammonium heptamolybdate tetrahydrate

PNEC 37.61 mg/L (Wastewater treatment plant)

22.01 mg/L (fresh water)

3.94 mg/L (sea water)

PNEC 4,090 mg/kg (marine sediment)

39,170 mg/kg (freshwater sediment)

16.46 mg/kg /dw (soil)

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 properties

**General Information** 

Physical state Solid
Colour: White
Odour: Odourless
Odour threshold: Not determined.

Melting point/freezing point: 90 °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.Decomposition temperature:Not determined.

**pH** 5.3

Viscosity:

Kinematic viscosity

Not applicable.

Not applicable.

Solubility

water at 20 °C: 400 g/l

Partition coefficient n-octanol/water (log value) Not determined.

(Contd. on page 4)

(Contd. of page 3)

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

Printing date 20.09.2024 Version 4 (replaces version 3) Revision: 20.09.2024

Trade name: CA80TP Reagent RN, Component 2

Vapour pressure: Not applicable.

Density and/or relative density

Density at 20 °C:2.498 g/cm³Relative densityNot determined.Bulk density:800 kg/m³Vapour densityNot applicable.Particle characteristicsSee section 3.

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 1,235.86 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 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.

(Contd. on page 5)

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

Printing date 20.09.2024 Version 4 (replaces version 3) Revision: 20.09.2024

Trade name: CA80TP Reagent RN, Component 2

(Contd. of page 4)

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**

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 Smaller quantities can be disposed of with household waste.

#### European waste catalogue

16 05 09 discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08

## 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

ADR, 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

14.4 Packing group

ADR, IMDG, IATA Void

14.5 Environmental hazards:

Marine pollutant: No

14.6 Special precautions for user

Not applicable.

(Contd. on page 6)

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

Printing date 20.09.2024 Version 4 (replaces version 3) Revision: 20.09.2024

Trade name: CA80TP Reagent RN, Component 2

(Contd. of page 5)

14.7 Maritime transport in bulk according to IMO

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.

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

Substance is not listed.

## **REGULATION (EU) 2019/1148**

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

Substance is not listed.

#### Annex II - REPORTABLE EXPLOSIVES PRECURSORS

Substance is not listed.

## Regulation (EC) No 273/2004 on drug precursors

Substance is not listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

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
Date of previous version: 30.04.2021
Version number of previous version: 3

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 routé (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)

(Contd. on page 7)

Page 7/7

# Safety data sheet

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

Printing date 20.09.2024

Version 4 (replaces version 3) Revision: 20.09.2024

Trade name: CA80TP Reagent RN, Component 2

(Contd. of page 6)

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

\* Data compared to the previous version altered.

- IRL —

Endress+Hauser 🔣

People for Process Automa

Printing date 20.09.2024 Version 4 (replaces version 3)

Revision: 20.09.2024

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

#### 1.1 Product identifier

Trade name: CA80TP Reagent RN, Component 3

Article number: 51509017D

CAS Number: 28300-74-5
EC number: 234-293-3

Index number: 050-003-00-9

## Registration number

A registration number for this substance is not available because the substance or its use is exempted from registration, the annual tonnage does not require registration or registration is foreseen for a later date.

**UFI:** MKS0-X05M-S00X-02FN

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

Product category PC21 Laboratory chemicals

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:

00353 01 809 2166 (from 8 am to 10 pm, 7 days a week)

00353 01 809 2566 (24h)

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

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



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



Acute Tox. 4 H302 Harmful if swallowed. Acute Tox. 4 H332 Harmful if inhaled.

## 2.2 Label elements

## Labelling according to Regulation (EC) No 1272/2008

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

(Contd. on page 2)

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

Printing date 20.09.2024 Version 4 (replaces version 3) Revision: 20.09.2024

Trade name: CA80TP Reagent RN, Component 3

(Contd. of page 1)

## **Hazard pictograms**



#### Signal word Warning

## Hazard-determining components of labelling:

antimony potassium tartrate

#### **Hazard statements**

H302+H332 Harmful if swallowed or if inhaled.

H411 Toxic to aquatic life with long lasting effects.

## **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P330 Rinse mouth.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P501 Dispose of contents/container in accordance with local/regional/national/international

eaulations.

#### 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: 28300-74-5 antimony potassium tartrate

Identification number(s) EC number: 234-293-3 Index number: 050-003-00-9

## **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. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

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.

(Contd. on page 3)

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

Printing date 20.09.2024 Version 4 (replaces version 3) Revision: 20.09.2024

Trade name: CA80TP Reagent RN, Component 3

(Contd. of page 2)

## **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: Mount respiratory protective device.

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

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

## 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

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.

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

Thorough dedusting.

Ensure good ventilation/exhaustion at the workplace.

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: Keep container tightly sealed.

Storage class: 6.1 C

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: 28300-74-5 antimony potassium tartrate

OEL (Ireland) Long-term value: 0.5 mg/m³

as Sb

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.

(Contd. on page 4)

Printing date 20.09.2024 Version 4 (replaces version 3) Revision: 20.09.2024

Trade name: CA80TP Reagent RN, Component 3

(Contd. of page 3)

#### 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

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

Colour:

Odour:

Unpleasant
Odour threshold:

Melting point/freezing point:

Volume Solid
White
Unpleasant
Unpleasant
Undetermined.

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.Decomposition temperature:Not determined.pHNot applicable.

Viscosity:

Kinematic viscosity

Not applicable.

Not applicable.

Not applicable.

Solubility

water at 20 °C: 59 g/l

Partition coefficient n-octanol/water (log value) Not determined. Vapour pressure: Not applicable.

Density and/or relative density

Density at 20 °C:

Relative density

Vapour density

Particle characteristics

2.6 g/cm³

Not determined.

Not applicable.

See section 3.

9.2 Other information

Appearance:

Form: 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 333.93 g/mol

(Contd. on page 5)

Printing date 20.09.2024 Version 4 (replaces version 3) Revision: 20.09.2024

Trade name: CA80TP Reagent RN, Component 3

(Contd. of page 4)

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 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 or if inhaled.

Ī	D/L C50	) values	relevant for	classificatio	n:

CAS: 28300-74-5 antimony potassium tartrate

Oral LD50 115 mg/kg (rat)

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**

Substance is not listed.

(Contd. on page 6)

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

Printing date 20.09.2024 Version 4 (replaces version 3) Revision: 20.09.2024

Trade name: CA80TP Reagent RN, Component 3

(Contd. of page 5)

## **SECTION 12: Ecological information**

## 12.1 Toxicity

## Aquatic toxicity:

## CAS: 28300-74-5 antimony potassium tartrate

EC50[48h] 5 mg/l (crustacean)

EC50[96h] 37 mg/l (fish)

- **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

Remark: Toxic for fish

## 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.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

## **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.

## European waste catalogue

16 05 06\* laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals

#### 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

ADR, IMDG, IATA

14.2 UN proper shipping name

ADR IMDG

ΙΔΤΔ

14.3 Transport hazard class(es)

UN1551

UN1551 ANTIMONY POTASSIUM TARTRATE ANTIMONY POTASSIUM TARTRATE, MARINE

**POLLUTANT** 

Antimony potassium tartrate

ADR



Class 6.1 (T5) Toxic substances.

(Contd. on page 7)

Printing date 20.09.2024 Version 4 (replaces version 3) Revision: 20.09.2024

Trade name: CA80TP Reagent RN, Component 3

Label 6.1 (Contd. of page 6)

**IMDG** 



**Class** 6.1 Toxic substances.

Label 6.1

**IATA** 



Class 6.1 Toxic substances.

Label 6.1

14.4 Packing group

Special marking (ADR):

ADR, IMDG, IATA III

14.5 Environmental hazards: Product contains environmentally hazardous

substances: antimony potassium tartrate

Marine pollutant: Yes

Symbol (fish and tree) Symbol (fish and tree) Warning: Toxic substances.

14.6 Special precautions for user Hazard identification number (Kemler code):

60 **EMS Number:** F-A,S-A **Stowage Category** 

14.7 Maritime transport in bulk according to IMO

Not applicable.

Transport/Additional information:

Limited quantities (LQ) 5 kg **Excepted quantities (EQ)** Code: E1

Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g

**Transport category Tunnel restriction code** Ε

**IMDG** 

Limited quantities (LQ) 5 kg **Excepted quantities (EQ)** Code: E1

Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g

**UN "Model Regulation":** UN 1551 ANTIMONY POTASSIUM TARTRATE, 6.1,

III, ENVIRONMENTALLY HAZARDOUS

## **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.

(Contd. on page 8)

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

Printing date 20.09.2024 Version 4 (replaces version 3) Revision: 20.09.2024

Trade name: CA80TP Reagent RN, Component 3

(Contd. of page 7)

## **Hazard pictograms**



#### Signal word Warning

## Hazard-determining components of labelling:

antimony potassium tartrate

#### **Hazard statements**

H302+H332 Harmful if swallowed or if inhaled.

H411 Toxic to aquatic life with long lasting effects.

## **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P330 Rinse mouth.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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 E2 Hazardous to the Aquatic Environment

Qualifying quantity (tonnes) for the application of lower-tier requirements  $200\ t$ 

Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

Substance is not listed.

## **REGULATION (EU) 2019/1148**

# Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

Substance is not listed.

## **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

Substance is not listed.

## Regulation (EC) No 273/2004 on drug precursors

Substance is not listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

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
Date of previous version: 30.04.2021
Version number of previous version: 3

(Contd. on page 9)

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

Printing date 20.09.2024 Version 4 (replaces version 3) Revision: 20.09.2024

Trade name: CA80TP Reagent RN, Component 3

(Contd. of page 8)

## 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

Acute Tox. 4: Acute toxicity - Category 4

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

\* Data compared to the previous version altered.

IRL -