

People for Process Automation

Printing date 19.09.2024 Version 3 (replaces version 2) Revision: 19.09.2024

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

1.1 Product identifier

Trade name: <u>CA80TN Reagent RB</u>
Article number: CY80TN active

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



health hazard

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



Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

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

### 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**



GHS08

#### Signal word Danger

# Hazard-determining components of labelling:

sodium persulphate

### **Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

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

H317 May cause an allergic skin reaction.

### **Precautionary statements**

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

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

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P280 Wear protective gloves / eye protection / face protection.
P284 [In case of inadequate ventilation] wear respiratory protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

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

regulations.

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 substances listed below with nonhazardous additions.

Dangerous components:		
CAS: 7775-27-1 EINECS: 231-892-1	sodium persulphate  Ox. Sol. 2, H272; Resp. Sens. 1, H334; Acute Tox. 4, H302; Skin Sens. 1, H317	2-6%
CAS: 1310-73-2 EINECS: 215-185-5	Sodium hydroxide  Skin Corr. 1A, H314;  Acute Tox. 4, H302 Specific concentration limits: Skin Corr. 1A; H314: C ≥ 5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0.5 % ≤ C < 2 % Eye Irrit. 2; H319: 0.5 % ≤ C < 2 %	1-2.5%

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:

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. If symptoms persist, consult a doctor.

After swallowing: If symptoms persist consult doctor.

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

No further relevant information available.

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

No further relevant information available.

# **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing agents: 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.* 

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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:

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

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.

Prevent formation of aerosols.

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: 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:

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:

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 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



To avoid skin problems reduce the wearing of gloves to the required minimum. Only use chemical-protective gloves with CE-labelling of category III.

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The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

#### Material of gloves

Nitrile rubber, NBR

Natural rubber, NR

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

Boiling point or initial boiling point and boiling

range 100 °C (CAS: 7732-18-5 water)

Flammability Not applicable.

Lower and upper explosion limit

Lower: Not determined.
Upper: Not determined.
Flash point: Not applicable.
pH Not determined.

Viscosity:

Kinematic viscosity

Not determined.

Not determined.

Not determined.

Solubility

water: Not miscible or difficult to mix.

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

Vapour pressure at 20 °C: 23 hPa (CAS: 7732-18-5 water)

Density and/or relative density

Density at 20 °C:1.011 g/cm³Relative densityNot determined.Vapour densityNot 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.

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Solvent content:

Water: 94.8 % 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 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.

LD/LC50 values relevant for classification:			
CAS: 7775-27-1 sodium persulphate			
Oral	LD50	920 mg/kg (rat)	
CAS: 1310-73-2 Sodium hydroxide			
Oral	LD50	2,000 mg/kg (rat)	
Inhalative	LC50/4 h	125 mg/l (fish)	

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation Causes serious eye irritation.

Respiratory or skin sensitisation

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

May cause an allergic skin reaction.

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#### 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.

# **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.

# **SECTION 14: Transport information**

14.1 UN number or ID number

IMDG, IATA

14.2 UN proper shipping name

**ADR** 

**IMDG** IATA

14.3 Transport hazard class(es)

UN1824

8

**UN1824 SODIUM HYDROXIDE SOLUTION** 

SODIUM HYDROXIDE SOLUTION

Sodium hydroxide solution

**ADR** 



**Class** 8 (C5) Corrosive substances.

Label

IMDG, IATA



8 Corrosive substances. **Class** 

Label

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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 F-A,S-B

Segregation groups (SGG18) Alkalis Stowage Category A

Segregation Code SG35 Stow "separated from" SGG1-acids

14.7 Maritime transport in bulk according to IMO

instruments Not applicable.

**Transport/Additional information:** 

**ADR** 

Limited quantities (LQ) 5L
Transport category 3
Tunnel restriction code E

**IMDG** 

Limited quantities (LQ) 5L

Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml
UN 1824 SODIUM HYDROXIDE SOLUTION 8 III

UN 1824 SODIUM HYDROXIDE SOLUTION, 8, 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 product is classified and labelled according to the CLP regulation.

**Hazard pictograms** 



Signal word Danger

### Hazard-determining components of labelling:

sodium persulphate

#### **Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

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

H317 May cause an allergic skin reaction.

**Precautionary statements** 

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves / eye protection / face protection.
P284 [In case of inadequate ventilation] wear respiratory protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

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.

#### **National regulations:**

Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

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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.

#### 16.1 Relevant phrases

H272 May intensify fire; oxidiser.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

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

### 16.3 Recommended restriction of use

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

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the

International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

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

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

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

Resp. Sens. 1: Respiratory sensitisation - Category 1

Skin Sens. 1: Skin sensitisation - Category 1

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