19.09.2023	Kit Components	
Product code	Description	
CY80AM-AA+SC	CA80AM Reagent Set	
Components:		
71232777	CA80AM Reagent RB (R1)	
71587667	CA80AM Reagent RK	

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People for Process Autor

Printing date 19.09.2023 Version 12 (replaces version 11) Revision: 19.09.2023

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

#### 1.1 Product identifier

Trade name: CA80AM Reagent RB (R1)

**Article number:** 71232777 **UFI:** *KD10-80TF-3009-EW47* 

## 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: 00356 21 22 40 71

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

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



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Eye Irrit. 2 H319 Causes serious eye irritation.

#### 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



GHS07

## Signal word Warning

## Hazard-determining components of labelling:

Sodium salicylate Sodium nitroprusside

#### **Hazard statements**

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

### **Precautionary statements**

P280 Wear eye protection / face protection.

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

P330 Rinse mouth.

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.

(Contd. on page 2)

according to 1907/2006/EC, Article 31

Printing date 19.09.2023 Version 12 (replaces version 11) Revision: 19.09.2023

Trade name: CA80AM Reagent RB (R1)

(Contd. of page 1)

#### 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: 54-21-7 EINECS: 200-198-0 Registration number: 01- 2119918289-28-XXXX	Sodium salicylate  Acute Tox. 4, H302; Eye Irrit. 2, H319	80-100%	
CAS: 13755-38-9 EINECS: 238-373-9	Sodium nitroprusside  Acute Tox. 2, H300; Acute Tox. 2, H310	2-6%	

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:**

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

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

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

## After eye contact:

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

After swallowing: Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

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

No further relevant information available.

## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

## Suitable extinguishing agents:

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.

## 6.4 Reference to other sections

See Section 7 for information on safe handling.

(Contd. on page 3)

according to 1907/2006/EC, Article 31

Printing date 19.09.2023 Version 12 (replaces version 11) Revision: 19.09.2023

Trade name: CA80AM Reagent RB (R1)

(Contd. of page 2)

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

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

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

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: 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:

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.

Avoid contact with the eyes and skin.

Respiratory protection: Not required.

#### 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

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.

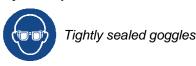
(Contd. on page 4)

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Trade name: CA80AM Reagent RB (R1)

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### Eye/face protection



Body protection: Protective work clothing

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

9.1 Information on basic physical and chemical properties

**General Information** 

Physical stateSolidColour:Light redOdour:OdourlessOdour threshold:Not determined.Melting point/freezing point:Undetermined.

Boiling point or initial boiling point and boiling

range Undetermined. Flammability Not determined.

Lower and upper explosion limit

Lower: Not determined.
Upper: Not determined.
Flash point: Not applicable.
Auto-ignition temperature: >250 °C

**Decomposition temperature: pH**Not determined.

Not applicable.

Viscosity:

Kinematic viscosity Not applicable.

Kinematic viscosity

**Dynamic:** Not applicable.

Solubility

water: Soluble.

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

Vapour pressure:

Density and/or relative density

Density:Not determined.Relative densityNot determined.Vapour densityNot applicable.Particle characteristicsSee section 3.

9.2 Other information

Appearance:

Form: Solid

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.

Change in condition

Evaporation rate Not applicable.

Information with regard to physical hazard

classes

ExplosivesVoidFlammable gasesVoidAerosolsVoidOxidising gasesVoid

(Contd. on page 5)

according to 1907/2006/EC, Article 31

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Trade name: CA80AM Reagent RB (R1)

(Contd. of page 4) 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.* 

LD/LC50 values relevant for classification:			
CAS: 54-21-7 Sodium salicylate			
Oral	LD50	930 mg/kg (rat)	
CAS: 1.	CAS: 13755-38-9 Sodium nitroprusside		
Oral	LD50	20 mg/kg (human)	
Dermal	LD50	99 mg/kg (rat)	

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

Serious eye damage/irritation Causes serious eye irritation.

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.

(Contd. on page 6)

according to 1907/2006/EC, Article 31

Printing date 19.09.2023 Version 12 (replaces version 11) Revision: 19.09.2023

Trade name: CA80AM Reagent RB (R1)

(Contd. of page 5)

**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.

## 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, 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:Not applicable.14.6 Special precautions for userNot applicable.

14.7 Maritime transport in bulk according to IMO

instruments Not applicable.

UN "Model Regulation": Void

## **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Labelling according to Regulation (EC) No 1272/2008

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

## **Hazard pictograms**



Signal word Warning

according to 1907/2006/EC, Article 31

Printing date 19.09.2023 Version 12 (replaces version 11) Revision: 19.09.2023

Trade name: CA80AM Reagent RB (R1)

(Contd. of page 6)

#### Hazard-determining components of labelling:

Sodium salicylate Sodium nitroprusside

**Hazard statements** 

H302 Harmful if swallowed. H319 Causes serious eye irritation.

**Precautionary statements** 

P280 Wear eye protection / face protection.

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

P330 Rinse mouth.

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.

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 under Article 5(3))

None of the ingredients is listed.

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

None of the ingredients is listed.

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

None of the ingredients is listed.

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

None of the ingredients is listed.

## National regulations:

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

## **SECTION 16: Other information**

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

## 16.3 Recommended restriction of use

Department issuing SDS: PCC-TWR Contact: MSDS.pcc@endress.com Date of previous version: 29.12.2020 Version number of previous version: 11

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

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# Safety data sheet according to 1907/2006/EC, Article 31

Version 12 (replaces version 11) Revision: 19.09.2023 Printing date 19.09.2023

Trade name: CA80AM Reagent RB (R1)

(Contd. of page 7)

Acute Tox. 2: Acute toxicity – Category 2
Acute Tox. 4: Acute toxicity – Category 4
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

\* Data compared to the previous version altered.

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People for Process Automation

Printing date 19.09.2023 Version 1 Revision: 03.05.2023

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

1.1 Product identifier

Trade name: CA80AM Reagent RK

**Article number**: 71587667 **UFI**: *G4Y1-J06R-800R-TGQ4* 

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: 00356 21 22 40 71

### **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.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

#### 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



GHS05

## Signal word Danger

## Hazard-determining components of labelling:

Sodium hydroxide

sodium hypochlorite, solution

#### **Hazard statements**

H314 Causes severe skin burns and eye damage. H412 Harmful to aquatic life with long lasting effects.

#### **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).

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Trade name: CA80AM Reagent RK

(Contd. of page 1)

P405 Store locked up.

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: 1310-73-2 EINECS: 215-185-5 Registration number: 01- 2119457892-27-XXXX	Sodium hydroxide  Skin Corr. 1Ā, H314; Nacute 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 %	2-6%
CAS: 7681-52-9 EINECS: 231-668-3	sodium hypochlorite, solution  Skin Corr. 1B, H314; Eye Dam. 1, H318;  Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1), EUH031 Specific concentration limit: EUH031: C ≥ 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: 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: 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

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 1907/2006/EC, Article 31

Printing date 19.09.2023 Version 1 Revision: 03.05.2023

Trade name: CA80AM Reagent RK

(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:

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.

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

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

#### 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:

CAS: 1310-73-2 Sodium hydroxide

WEL (Great Britain) Short-term value: 2 mg/m³

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.

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Trade name: CA80AM Reagent RK

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## **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: According to product specification

Odour:
Odourless
Odour threshold:
Not determined.
Melting point/freezing point:
Undetermined.

Boiling point or initial boiling point and boiling

range Undetermined. Flammability Not applicable.

Lower and upper explosion limit

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

Viscosity:

Kinematic viscosity Not determined.

Kinematic viscosity

**Dynamic:** Not determined.

**Solubility** 

water: Fully miscible.

Partition coefficient n-octanol/water (log value)

Vapour pressure: Fully miscible.

Not determined.

Not determined.

Vapour pressure:

Density and/or relative density

Density:Not determined.Relative densityNot determined.Vapour densityNot determined.

(Contd. on page 5)

according to 1907/2006/EC, Article 31

Printing date 19.09.2023 Version 1 Revision: 03.05.2023

Trade name: CA80AM Reagent RK

(Contd. of page 4)

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: 91.2 %

Change in condition

**Evaporation rate**Not determined.

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** 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: 131	CAS: 1310-73-2 Sodium hydroxide		
Oral	LD50	2,000 mg/kg (rat)	
Inhalative	LC50/4 h	125 mg/l (Fish)	
CAS: 768	CAS: 7681-52-9 sodium hypochlorite, solution		
Oral	LD50	5,800 mg/kg (Mouse)	

Skin corrosion/irritation Causes severe skin burns and eye damage.

according to 1907/2006/EC, Article 31

Printing date 19.09.2023 Version 1 Revision: 03.05.2023

Trade name: CA80AM Reagent RK

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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 Remark: Harmful to fish

Additional ecological information:

**General notes:** 

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system. Must not reach sewage water or drainage ditch undiluted or unneutralised. Danger to drinking water if even small quantities leak into the ground.

Harmful to 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.

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 UN1719

14.2 UN proper shipping name

ADR UN1719 CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM

HYDROXIDE)

IMDG CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM

HYDROXIDE)

IATA Caustic alkali liquid, n.o.s. (containing SODIUM

HYDROXIDE)

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## 14.3 Transport hazard class(es)

**ADR** 



Class 8 (C5) Corrosive substances.

Label

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 F-A,S-B

Segregation groups (SGG18) Alkalis

Stowage Category A

**Segregation Code**SG22 Stow "away from" ammonium salts
SG35 Stow "separated from" SGG1-acids

14.7 Maritime transport in bulk according to IMO

instruments Not applicable.

**Transport/Additional information:** 

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 "Model Regulation": UN 1719 CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM

HYDROXIDE), 8, II

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Labelling according to Regulation (EC) No 1272/2008

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

Hazard pictograms



according to 1907/2006/EC, Article 31

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## Signal word Danger

## Hazard-determining components of labelling:

Sodium hydroxide

sodium hypochlorite, solution

#### **Hazard statements**

H314 Causes severe skin burns and eye damage.

H412 Harmful to aquatic life with long lasting effects.

## **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 under Article 5(3))

None of the ingredients is listed.

## Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

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

None of the ingredients is listed.

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

None of the ingredients is listed.

#### **National regulations:**

Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **SECTION 16: Other information**

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

#### 16.3 Recommended restriction of use

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

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

International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

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

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# Safety data sheet

according to 1907/2006/EC, Article 31

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## Trade name: CA80AM Reagent RK

(Contd. of page 8) PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3