Page 1/9

Revision: 23.10.2024

Printing date 23.10.2024 Version 5 (replaces version 4)

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

#### 1.1 Product identifier

Trade name: Cleaner CY820 alkaline Synonym: cleaning concentrate Article number: CY820-1+TA\_TB

#### 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

Cleaning material/ Detergent Laboratory chemicals

# 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Endress+Hauser Conducta GmbH+Co. KG Dieselstraße 24 D-70839 Gerlingen

#### Further information obtainable from:

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

1.4 Emergency telephone number: 0044 717 635 91 91

# **SECTION 2: Hazards identification**

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



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

Eve Dam. 1 H318 Causes serious eye damage.



Acute Tox. 4 H302 Harmful if swallowed.

# 2.2 Label elements

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

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

# Hazard pictograms





GHS05 GHS07

#### Signal word Danger

# Hazard-determining components of labelling:

potassium hydroxide Sodium hydroxide

#### **Hazard statements**

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

(Contd. on page 2)

Version 5 (replaces version 4)

Trade name: Cleaner CY820 alkaline

(Contd. of page 1)

Revision: 23.10.2024

#### **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.

#### 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: 1310-58-3 EINECS: 215-181-3 Registration number: 01- 2119487136-33-XXXX	potassium 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 %	10-20%		
CAS: 1310-73-2 EINECS: 215-185-5 Registration number: 01- 2119457892-27-XXXX	Sodium hydroxide  Skin Corr. 1A, H314;	10-20%		
CAS: 60-00-4 EINECS: 200-449-4	edetic acid  September 1997  Eye Irrit. 2, H319	5-10%		

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.

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

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

#### After skin contact:

Call a doctor immediately.

Immediately wash with water and soap and rinse thoroughly.

Immediately rinse with water.

(Contd. on page 3)

Version 5 (replaces version 4)

Trade name: Cleaner CY820 alkaline

(Contd. of page 2)

Revision: 23.10.2024

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

#### After swallowing:

Call for a doctor immediately.

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:**

Wear self-contained respiratory protective device.

Mount respiratory protective device.

#### **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

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: Store only in the original receptacle.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep container tightly sealed.

Storage class: 8 A

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

(Contd. on page 4)

Version 5 (replaces version 4)

Trade name: Cleaner CY820 alkaline

(Contd. of page 3)

Revision: 23.10.2024

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

#### 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

CAS: 1310-58-3 potassium hydroxide

WEL | Short-term value: 2 mg/m³

CAS: 1310-73-2 Sodium hydroxide

WEL | 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.

#### 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**

Butyl rubber, BR 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:** Apron

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

9.1 Information on basic physical and chemical properties General Information Physical state Fluid

(Contd. on page 5)

Printing date 23.10.2024 Version 5 (replaces version 4) Revision: 23.10.2024

Trade name: Cleaner CY820 alkaline

(Contd. of page 4)

Colour: Liaht brown Odour: **Punaent Odour threshold:** Not determined. Melting point/freezing point: Undetermined.

Boiling point or initial boiling point and boiling

100 °C range

**Flammability** Not applicable.

Lower and upper explosion limit

Not determined. Lower: Upper: Not determined. Flash point: > 100 °C **Decomposition temperature:** Not determined.

pH at 20 °C >13.5

Viscosity:

Kinematic viscosity Not determined. Dynamic: Not determined.

Solubility

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

Vapour pressure at 20 °C: 23 hPa

Density and/or relative density

Density at 20 °C: 1.34 q/cm<sup>3</sup> Not determined. Relative density Vapour density Not determined.

9.2 Other information

Appearance:

Form: Liquid

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:

50.0 % Water: Solids content: 0.0 %

Change in condition

Not determined. **Evaporation rate** 

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

(Contd. on page 6)

according to UK REACH

Printing date 23.10.2024 Version 5 (replaces version 4) Revision: 23.10.2024

Trade name: Cleaner CY820 alkaline

Desensitised explosives Void

(Contd. of page 5)

# **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

Strong exothermic reaction with acids.

Reacts with acids.

- 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 v	LD/LC50 values relevant for classification:			
CAS: 1310-58-3 potassium hydroxide				
Oral	LD50	273 mg/kg (rat)		
CAS: 1310-73-2 Sodium hydroxide				
Oral	LD50	2,000 mg/kg (rat)		
Inhalative	LC50/4 h	125 mg/l (fish)		
CAS: 60-00-4 edetic acid				
Oral	LD50	4,500 mg/kg (rat)		

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

Serious eye damage/irritation Causes serious eye damage.

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 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.

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

(Contd. on page 7)

Printing date 23.10.2024

according to OK KEAOTT

Version 5 (replaces version 4)

Trade name: Cleaner CY820 alkaline

(Contd. of page 6)

Revision: 23.10.2024

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Recommendation

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

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

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

# **SECTION 14: Transport information**

14.1 UN number or ID number

IMDG, IATA UN3266

14.2 UN proper shipping name

ADR UN3266 CORROSIVE LIQUID, BASIC, INORGANIC,

N.O.S. (SODIUM HYDROXIDE, POTASSIUM

HYDROXIDE)

IMDG CORROSIVÉ LIQUID, BASIC, INORGANIC, N.O.S.

(SODIUM HYDROXIDE, POTASSIUM HYDROXIDE) Corrosive liquid, basic, inorganic, n.o.s. (containing

SODIUM HYDROXIDE, POTASSIUM HYDROXIDE)

14.3 Transport hazard class(es)

ADR

**IATA** 



Class 8 (C5) 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 (SGG18) Alkalis

Stowage Category B

Stowage Code SW2 Clear of living quarters.

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) 1L
Transport category 2
Tunnel restriction code E

(Contd. on page 8)

according to UK REACH

Printing date 23.10.2024 Version 5 (replaces version 4) Revision: 23.10.2024

Trade name: Cleaner CY820 alkaline

(Contd. of page 7)

**IMDG** 

Limited quantities (LQ)

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 3266 CORROSIVE LIQUID, BASIC, INORGANIC,

1L

N.O.S. (SODIUM HYDROXIDE, POTASSIUM

HYDROXIDE), 8, II

# **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Poisons Act

Regulated explosives precursors				
None of the ingredients is listed.				
Regulated poisons				
None of the ingredients is listed.				
Reportable explosives precursors				
None of the ingredients is listed.				
Reportable poisons				
CAS: 1310-58-3 potassium hydroxide	17% of total caustic alkalinity			
CAS: 1310-73-2 Sodium hydroxide	12% of total caustic alkalinity			

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

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

#### **Hazard pictograms**





GHS05 GHS07

#### Signal word Danger

#### Hazard-determining components of labelling:

potassium hydroxide Sodium hydroxide

#### **Hazard statements**

H302 Harmful if swallowed.

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.

#### **National regulations:**

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

(Contd. on page 9)

Version 5 (replaces version 4)

Trade name: Cleaner CY820 alkaline

(Contd. of page 8)

Revision: 23.10.2024

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

H302 Harmful if swallowed.

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* **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 Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1A: Skin corrosion/irritation – Category 1A Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

\* Data compared to the previous version altered.

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