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Endress+Hauser

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

1.1 Product identifier

Trade name: <u>Cleaning solution</u> Synonym: for CA80PH/CR

Article number: CY800-AFx1

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 agent/ Cleaner

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

flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



Skin Corr. 1B 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: hydrochloric acid Hazard statements H225 Highly flammable liquid and vapour. 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.

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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 hazard	S

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: 67-63-0	propan-2-ol	10-20%
EINECS: 200-661-7	🚸 Flam. Liq. 2, H225; 🕔 Eye Irrit. 2, H319; STOT SE 3, H336	
	hydrochloric acid	5-10%
	🔆 Skin Corr. 1B, H314; Eye Dam. 1, H318; 🕔 Acute Tox. 4, H302; STOT SE 3, H335	
,	Specific concentration limits: Skin Corr. 1B; H314: C ≥ 25 %	
	Skin Irrit. 2; H315: 10 % ≤ C < 25 %	
	Eye Irrit. 2; H319: 10 % ≤ C < 25 %	
	STOT SE 3; H335: C ≥ 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.

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: Water with full jet 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.

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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:
Prevent seepage into sewage system, workpits and cellars.
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 ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.

7.2 Conditions for safe storage, including any incompatibilities

Storage: Requirements to be met by storerooms and receptacles: Store in a cool location. Information about storage in one common storage facility: Not required. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles. Storage class: 3 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: 7647-01-0 hydrochloric acid IOELV (EU) Short-term value: 15 mg/m³, 10 ppm Long-term value: 8 mg/m³, 5 ppm

DNELs

CAS: 7647-01-0 hydrochloric acid

Inhalative	DNEL short-term	15 mg/m³ (worker) (local effects)
		15 mg/m³ (consumer) (local effects)
	DNEL long-term	8 mg/m³ (worker) (local effects)
		8 mg/m³ (consumer) (local effects)

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.

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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 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 General Information	properties
Physical state	Fluid
Colour:	Colourless
Odour:	Alcohol-like
Odour threshold:	Not determined.
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling	
range	82 °C
Flammability	Highly flammable.
Lower and upper explosion limit	
Lower:	2 Vol %
Upper:	12 Vol %
Flash point:	< 23 °C
Auto-ignition temperature:	425 °C
Decomposition temperature:	Not determined.
pH at 20 °C	<2

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Viscosity:	
Kinematic viscosity	Not determined.
Kinematic viscosity	
Dynamic:	Not determined.
Solubility	Not missible or difficult to miss
water:	Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log value) Vapour pressure at 20 °C:	Not determined. 43 hPa
Vapour pressure:	45 NF a
Density and/or relative density	
Density:	Not determined.
Relative density	Not determined.
Vapour density	Not determined.
9.2 Other information	
Appearance: Form:	Fluid
	Fluid
Important information on protection of health and environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of
	explosive air/vapour mixtures are possible.
Solvent content:	
Organic solvents:	15.0 %
Water:	71.4 %
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	Highly flammable liquid and vapour.
Flammable solids Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void 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.

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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: 67-6	63-0 propa	nn-2-ol
		LD50	5,045 mg/kg (rat)
		LD50	12,800 mg/kg (rbt)
	Inhalative	LC50/4 h	30 mg/l (rat)
CAS: 7647-01-0 hydrochloric acid			

Oral LD50 900 mg/kg (rabbit)

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 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 svstem.

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.

Uncleaned packaging: **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN number or ID number IMDG, IATA

UN2924

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de name: Cleaning solution	
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14.2 UN proper shipping name ADR	UN2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL),
IMDG	HYDROCHLORIC ACID) FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL),
ΙΑΤΑ	HYDROCHLORIC ACID) Flammable liquid, corrosive, n.o.s. (containing ISOPROPANOL (ISOPROPYL ALCOHOL), HYDROCHLORIC ACID)
14.3 Transport hazard class(es)	
ADR	
Class Label	3 (FC) Flammable liquids. 3+8
IMDG	
Class Label	3 Flammable liquids. 3/8
ΙΑΤΑ	
Class	3 Flammable liquids.
Label 14.4 Packing group	3 (8)
ADR, IMDG, IATA	11
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler code): EMS Number:	338 F-E,S-C
Segregation groups	(SGG18) Alkalis
Stowage Category	B
Stowage Code	SW2 Clear of living quarters.
Segregation Code 14.7 Maritime transport in bulk according to IM	
instruments	Not applicable.
ADR	41
Limited quantities (LQ) Transport category	1L 2
Tunnel restriction code	z D/E
IMDG	
Limited quantities (LQ)	1L

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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 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S.
-	(ISOPROPANOL (ISOPROPYL ALCOHOL),
	HYDROCHLORIC ACID), 3 (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



Signal word Danger

Hazard-determining components of labelling: hydrochloric acid Hazard statements H225 Highly flammable liquid and vapour. 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. Seveso category *P5c FLAMMABLE LIQUIDS* Qualifying quantity (tonnes) for the application of lower-tier requirements *5,000 t* Qualifying quantity (tonnes) for the application of upper-tier requirements *50,000 t*

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.

16.1 Relevant phrases

H225 Highly flammable liquid and vapour.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.

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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) DNEL: Derived No-Effect Level (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids - Category 2 Acute Tox. 4: Acute toxicity - Category 4 Skin Corr. 1B: Skin corrosion/irritation - Category 1B Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 * Data compared to the previous version altered.

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