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eople for Process Automation

Printing date 03.11.2023 Version 11 (replaces version 10) Revision: 17.07.2023

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

Product identifier

Trade name: Cleaning solution
Synonym: for CA80PH/CR
Article number: CY800-AFx1

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

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

Emergency telephone number: 00971 800 424 (from 7 am to 3 pm, from Sunday to Thursday)

SECTION 2: Hazards identification

Classification of the substance or mixture



Flam. Lig. 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.

Label elements

GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

Hazard pictograms





GHS02 GHS05

Signal word Danger

Hazard-determining components of labelling:

hydrochloric acid

Hazard statements

Highly flammable liquid and vapour.

Causes severe skin burns and eye damage.

Precautionary statements

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER/doctor.

Specific treatment (see on this label).

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according to 1907/2006/EC, Article 31

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Store locked up.

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

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

Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:			
	propan-2-ol ③ Flam. Liq. 2, H225; ① Eye Irrit. 2, H319; STOT SE 3, H336	10-20%	
	hydrochloric acid Skin Corr. 1B, H314; Eye Dam. 1, H318;	5-10%	

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

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.

Most important symptoms and effects, both acute and delayed

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

For safety reasons unsuitable extinguishing agents: Water with full jet

Special hazards arising from the substance or mixture

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

Advice for firefighters No further relevant information available.

Protective equipment: Mount respiratory protective device.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

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Wear protective equipment. Keep unprotected persons away.

Wear protective clothing.

Environmental precautions:

Prevent seepage into sewage system, workpits and cellars.

Do not allow to enter sewers/ surface or ground water.

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.

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

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.

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

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

SECTION 8: Exposure controls/personal protection

Control parameters

Ingredients with limit values that require monitoring at the workplace:				
CAS: 67-63-0 propa	an-2-ol			
PEL (USA)	Long-term value: 980 mg/m³, 400 ppm			
REL (USA)	Short-term value: 1225 mg/m³, 500 ppm Long-term value: 980 mg/m³, 400 ppm			
TLV (USA)	Short-term value: 400 ppm Long-term value: 200 ppm BEI, A4			
WEL (Great Britain)	Short-term value: 1250 mg/m³, 500 ppm Long-term value: 999 mg/m³, 400 ppm			
CAS: 7647-01-0 hyd	drochloric acid			
PEL (USA)	Ceiling limit: 7 mg/m³, 5 ppm			
REL (USA)	Ceiling limit: 7 mg/m³, 5 ppm			
TLV (USA)	Ceiling limit: 2 ppm			
	A4 (Contd. on page 4)			

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					(Contd. of page 3)		
	IOELV (EU) Short-t			erm value: 15 mg/m³, 10 ppm			
		Long-te		rm value: 8 mg/m³, 5 ppm			
	WEL (Great Britain) Shor		Short-te	Short-term value: 8 mg/m³, 5 ppm			
	,	,	Long-te	rm value: 2 mg/m³, 1 ppm			
				d aerosol mists)			
DNELs							
	CAS: 764	7647-01-0 hydrochloric acid					
	Inhalative	Inhalative DNEL sho		15 mg/m³ (worker) (local effects)			
				15 mg/m³ (consumer) (local effects)			
		DNEL lor	ng-term	8 mg/m³ (worker) (local effects)			
				8 mg/m³ (consumer) (local effects)			

Ingredients with biological limit values:

CAS: 67-63-0 propan-2-ol

BEI (USA) 40 mg/L

Medium: urine

Time: end of shift at end of workweek

Parameter: Acetone (background, nonspecific)

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

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

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.

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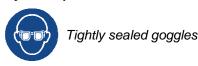
according to 1907/2006/EC, Article 31

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Eye/face protection



Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

General Information

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: $< 23 ^{\circ}\text{C}$ Auto-ignition temperature: $425 ^{\circ}\text{C}$

Decomposition temperature: Not determined.

pH at 20 °C <2

Viscosity:

Kinematic viscosity Not determined.

Kinematic viscosity

Dynamic: Not determined.

Solubility

water: Not miscible or difficult to mix.

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

Vapour pressure at 20 °C: 43 hPa

Vapour pressure:

Density and/or relative density

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

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 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

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Flammable gases
Void
Aerosols
Void
Oxidising gases
Void
Gases under pressure
Void

Flammable liquids Highly flammable liquid and vapour.

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

Reactivity No further relevant information available.

Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

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 v	LD/LC50 values relevant for classification:		
CAS: 67-63-0 propan-2-ol			
Oral	LD50	5,045 mg/kg (rat)	
Dermal	LD50	12,800 mg/kg (rbt)	
Inhalative	LC50/4 h	30 mg/l (rat)	
CAS: 764	7-01-0 hyc	drochloric 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.

Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability *No further relevant information available.*Bioaccumulative potential *No further relevant information available.*

Mobility in soil No further relevant information available.

Results of PBT and vPvB assessment

PBT: Not applicable.

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vPvB: Not applicable.

Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

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

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

UN number or ID number

IMDG, IATA

UN proper shipping name

ADR UN2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S.

UN2924

(ISOPROPANOL (ISOPROPYL ALCOHOL),

HYDROCHLORIC ACID)

IMDG FLAMMABLE LIQUID, CORROSIVE, N.O.S.

(ISOPROPANOL (ISOPROPYL ALCOHOL),

HYDROCHLORIC ACID)

IATA Flammable liquid, corrosive, n.o.s. (containing

ISOPROPANOL (ISOPROPYL ALCOHOL),

HYDROCHLORIC ACID)

Transport hazard class(es)

ADR





Class 3 (FC) Flammable liquids.

Label 3+8

IMDG





Class 3 Flammable liquids. Label 3/8

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IATA





Class 3 Flammable liquids.

Label 3 (8)

Packing group

ADR, IMDG, IATA //

Environmental hazards: Not applicable.

Special precautions for user Warning: Flammable liquids.

Hazard identification number (Kemler code): 338 EMS Number: F-E,S-C

Segregation groups (SGG18) Alkalis

Stowage Category B

Stowage Code SW2 Clear of living quarters.

Segregation Code SG35 Stow "separated from" SGG1-acids

Maritime transport in bulk according to IMO

instruments Not applicable.

Transport/Additional information:

ADR

Limited quantities (LQ) 1L
Transport category 2
Tunnel restriction code D/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 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S.

(ISOPROPANOL (ISOPROPYL ALCOHOL),

HYDROCHLORIC ACID), 3 (8), II

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS). **Hazard pictograms**





GHS02 GHS05

Signal word Danger

Hazard-determining components of labelling:

hydrochloric acid

Hazard statements

Highly flammable liquid and vapour.

Causes severe skin burns and eye damage.

Precautionary statements

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER/doctor.

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according to 1907/2006/EC, Article 31

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Specific treatment (see on this label).

Store locked up.

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. 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.

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

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.

UAE -