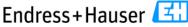
Safety Data Sheet according to HPR, Schedule 1

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1 Identification

Product identifier

Trade name: <u>Cleaning solution</u> Synonym: for CA7xAM/PH/NO/HY/CL/AL

Article number: CAY544-V10AAE

Application of the substance / the mixture Cleaning agent/ Cleaner Laboratory chemicals

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: +1 604 682 5050

2 Hazard identification

Classification of the substance or mixture



GHS05 Corrosion

Skin Corrosion - Category 1BH314 Causes severe skin burns and eye damage.Serious Eye Damage - Category 1H318 Causes serious eye damage.

Label elements

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



Signal word Danger

Hazard-determining components of labelling: hydrochloric acid Hazard statements 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). 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.

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3 Composition/Information on ingredients

Chemical characterisation: Mixtures

Description: Cleansing agent

Dangerous components:

0	•	
CAS: 7647-01-0	hydrochloric acid	1-2.5% *
	Skin Corrosion - Category 1B, H314; Serious Eye Damage - Category 1,	
	H318; 🕧 Acute Toxicity (Oral) - Category 4, H302; Specific Target Organ	
	Toxicity - Single Exposure - Category 3, H335	

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

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.

Information for doctor:

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.

5 Fire-fighting measures

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 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.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
Wear protective clothing.
Environmental precautions: Dilute with plenty of 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
No dangerous substances are released.
See Section 7 for information on safe handling.

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

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 respiratory protective device available.

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

8 Exposure controls/ Personal protection

Additional information about design of technical facilities: No further data; see section 7.

Control parameters

Ingredients with limit values that require monitoring at the workplace:

CAS: 7647-01-0 hydrochloric acid

EL Ceiling: 2 ppm EV Ceiling: 2 ppm

DNELs

CAS: 7647-01-0 hydrochloric acid

 Inhalative
 DNEL short-term
 15 mg/m³ (worker) (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.

Exposure controls 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.

Protection of hands:

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 Revision: 11/03/2023

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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.

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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 protection:

Tightly sealed goggles

Body protection: Protective work clothing

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information Appearance: Form: Colour: Odour: Odour threshold:	Fluid Colourless Characteristic Not determined.	
pH-value at 20 °C:	<2	
Change in condition Melting point/freezing point: Initial boiling point and boiling range:	0 °C 100 °C	
Flash point:	Not applicable.	
Flammability (solid, gas):	Not applicable.	
Decomposition temperature:	Not determined.	
Ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard. Not determined.	
Explosion limits: Lower: Upper:	Not determined. Not determined.	
Vapour pressure at 20 °C:	23 hPa	
Density at 20 °C: Relative density Vapour density Evaporation rate	1.001 g/cm ³ Not determined. Not determined. Not determined.	
Solubility in / Miscibility with water:	Fully miscible.	
Partition coefficient: n-octanol/water:	Not determined.	
Viscosity: Dynamic: Kinematic:	Not determined. Not determined.	(Contd. on page 5)

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Solvent content:	
Water:	>95.0 %
Solids content:	0.0 %
Other information	No further relevant information available.

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.

11 Toxicological information

Information on toxicological effects

Acute toxicity

LD/LC50 values relevant for classification:

CAS: 7647-01-0 hydrochloric acid

Oral LD50 900 mg/kg (rabbit)

Primary irritant effect:

Skin corrosion/irritation Caustic effect on skin and mucous membranes.

Serious eye damage/irritation

Strong caustic effect.

Strong irritant with the danger of severe eye injury.

Respiratory or skin sensitisation No sensitising effects known.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Corrosive Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12 Ecological information

Toxicity

Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Behaviour in environmental systems: Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Not hazardous for water. 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. Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

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Other adverse effects No further relevant information available.

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

14 Transport information

UN-Number				
IMDG, IATA	Void			
UN proper shipping name				
ADR, IMDG, IATA	Void			
Transport hazard class(es)				
ADR, ADN, IMDG, IATA				
Class	Void			
Packing group				
ADR, IMDG, IATA	Void			
Environmental hazards:	Not applicable.			
Special precautions for user	Not applicable.			
Transport in bulk according to Annex II of				
Marpol and the IBC Code	Not applicable.			
UN "Model Regulation":	Void			

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture *No further relevant information available.*

GHS label elements

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



Signal word Danger

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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 Date of the latest revision of the safety data sheet 11/03/2023 Abbreviations and acronyms: ICAO: International Civil Aviation Organisation IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European Inventory of Existing Commercial 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 * Data compared to the previous version altered.

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