in accordance with SANS

Printing date 21.10.2024

# Endress+Hauser

People for Process Automation Version 11 (replaces version 10) Page 1/7

Revision: 21.10.2024

# SECTION 1: Identification of the substance or mixture and of the supplier

# **Product identifier**

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

Article number: CAY544-V10AAE

Recommended use of the chemical and restrictions on use No further relevant information available.

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

Supplier's details 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 phone number +27 (0)861 555 777

# **SECTION 2: Hazard identification**

Classification of the substance or mixture



Skin Corr. 1BH314 Causes severe skin burns and eye damage.Eye Dam. 1H318 Causes serious eye damage.

### GHS 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.

(Contd. on page 2)

in accordance with SANS

Printing date 21.10.2024

Version 11 (replaces version 10)

Revision: 21.10.2024

# Trade name: Cleaning solution

Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

# **SECTION 3: Composition or information on ingredients**

# Mixtures

Description: Cleansing agent

Dangerous components:				
CAS: 7647-01-0	hydrochloric acid	1-2.5%		
EINECS: 231-595-7	♦ 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 beyond phrases refer to exotion 16				

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

# **SECTION 4: First-aid measures**

Description of necessary 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 or effects, acute and delayed No further relevant information available.

Indication of immediate medical attention and special treatment needed, if necessary No further relevant information available.

# **SECTION 5: Fire-fighting measures**

Suitable 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 Specific hazards arising from the chemical During heating or in case of fire poisonous gases are produced. Special protective actions for fire fighters 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. 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 liguid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising agent. Dispose contaminated material as waste according to section 13.

(Contd. on page 3) ZA

(Contd. of page 1)

in accordance with SANS

Printing date 21.10.2024

Revision: 21.10.2024

# **Trade name: Cleaning solution**

# Ensure adequate ventilation.

**Reference to other sections** No dangerous substances are released. 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 respiratory protective device available.

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

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

# **Control parameters**

Ingredients with limit values that require monitoring at the workplace:

CAS: 7647-01-0 hydrochloric acid

OEL Short-term value: 4 ppm

# DNELs

# CAS: 7647-01-0 hydrochloric acid

	•	
Inhalative		15 mg/m³ (worker) (local effects)
		15 mg/m³ (consumer) (local effects)
		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

Appropriate engineering controls No further data; see section 7.

# Individual protection measures, such as personal protective equipment (PPE)

# 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. (Contd. of page 2)

in accordance with SANS

Printing date 21.10.2024

Revision: 21.10.2024

(Contd. of page 3)

# **Trade name: Cleaning solution**

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 or face protection



Tightly sealed goggles

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: Characteristic	
Odour threshold: Not determined.	
Melting point/freezing point: 0 °C	
$^{\circ}$ 100 $^{\circ}$ نقطة الغليان أو نقطة الغليان الأولية ونطاق الغليان $^{\circ}$	
Flammability Not applicable.	
Upper or lower flammability or explosive limits	
Lower: Not determined.	
Upper: Not determined.	
Flash point: Not applicable.	
Decomposition temperature: Not determined.	
pH at 20 °C <2	
Viscosity:	
Viscosity Not determined.	
Dynamic: Not determined.	
Solubility	
water: Fully miscible.	
Partition coefficient: n-octanol or water Not determined.	
Vapour pressure at 20 °C: 23 hPa	
Vapour density + Relative density	
Density at 20 °C: 1.001 g/cm <sup>3</sup>	
Relative density Not determined.	
Vapour density Not determined.	
Other information	
Appearance: Form: Fluid	
Important information on protection of health	
and environment, and on safety.	
Ignition temperature: Product is not selfigniting.	
	hazard
Explosive properties: Product does not present an explosion I Not determined.	hazard.

(Contd. on page 5)

in accordance with SANS

Printing date 21.10.2024

Revision: 21.10.2024

(Contd. of page 4)

### **Trade name: Cleaning solution**

Solvent content:	
Water:	>95.0 %
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	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 flamm	able
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 values relevant for classification:

CAS: 7647-01-0 hydrochloric acid

Oral LD50 900 mg/kg (rabbit)

Skin corrosion or irritation Causes severe skin burns and eye damage. Serious eye damage or irritation Causes serious eye damage.

Information on other hazards

endocrine disrupting potential

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.

(Contd. on page 6)

in accordance with SANS

Printing date 21.10.2024

Revision: 21.10.2024

# Trade name: Cleaning solution

(Contd. of page 5) Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. **Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties. Other adverse effects 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.

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

# **SECTION 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 73/78 and the IBC Code	Not applicable.
UN "Model Regulation":	Void

# **SECTION 15: Regulatory information**

Safety, health and environmental regulations specific for the product in guestion **GHS** label elements

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



Signal word Danger

(Contd. on page 7) ZA —

in accordance with SANS

Printing date 21.10.2024

### **Trade name: Cleaning solution**

(Contd. of page 6)

# 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. Directive 2012/18/EU Named dangerous substances - ANNEX I None of the ingredients is listed. 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:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation 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 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 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 \* Data compared to the previous version altered. ZA