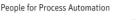
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Version 11



Reviewed on 11/03/2023

# **1** Identification

#### **Product identifier**

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

Article number: CAY541-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 Inc. 4123 E. La Palma Ave., Suite 200 Anaheim CA 92807-1813 USA

#### Information department:

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

Emergency telephone number: 001 18000 222 1222

# 2 Hazard(s) identification

#### Classification of the substance or mixture



Skin Corrosion 1B H314 Causes severe skin burns and eye damage.

Eye Damage 1 H318 Causes serious eye damage.

# Label elements

**GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS). **Hazard pictograms** 



Signal word Danger

Hazard-determining components of labeling: 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/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.

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

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Classification system:
NFPA ratings (scale 0 - 4)

 $\begin{array}{c} \textbf{Health} = 3\\ \textbf{Fire} = 0\\ \textbf{Reactivity} = 0 \end{array}$ 

HMIS-ratings (scale 0 - 4)

HEALTH\*3Health = \*3FIRE $\bigcirc$ Fire = 0REACTIVITY $\bigcirc$ Reactivity = 0

#### Other hazards

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

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

**vPvB:** Not applicable.

# **3 Composition/information on ingredients**

Chemical characterization: Mixtures Description: Cleansing agent

Dangerous components:

CAS: 7647-01-0 hydrochloric acid	1-2.5%	
Skin Corrosion 1B, H314; Eye Damage 1, H318; Acute Toxicity - Oral 4, H302; Specific Target Organ Toxicity - Single Exposure 3, H335		
Additional information: For the wording of the listed bazard phrases refer to section 16		

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 copious amounts of water and provide fresh air. Immediately call a doctor.

#### 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, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. For safety reasons unsuitable extinguishing agents: no further information Special bazards arising from the substance or mixture

# 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.

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#### Trade name: Cleaning solution

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 neutralizing 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. See Section 8 for information on personal protection equipment. See Section 13 for disposal information. **Protective Action Criteria for Chemicals** PAC-1: CAS: 7647-01-0 hydrochloric acid 1.8 ppm PAC-2: CAS: 7647-01-0 hydrochloric acid PAC-3:

CAS: 7647-01-0 hydrochloric acid

# 7 Handling and storage

#### Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Information about protection against explosions and fires: 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 receptacle 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 systems: No further data; see section 7.

### **Control parameters**

Com	ponents with limit values that require monitoring at the workplace:
CAS	: 7647-01-0 hydrochloric acid
PEL	Ceiling limit value: 7 mg/m³, 5 ppm
REL	Ceiling limit value: 7 mg/m³, 5 ppm
TLV	Ceiling limit value: 2 ppm
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Additional information: The lists that were valid during the creation were used as basis.

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22 ppm

100 ppm

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#### Trade name: Cleaning solution

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#### 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.

#### **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

#### 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-labeling 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 through 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: Color: Odor: Odor threshold:	Fluid Colorless Characteristic Not determined.
pH-value at 20 °C (68 °F):	<2
Change in condition Melting point/Melting range: Boiling point/Boiling range:	0 °C (32 °F) 100 °C (212 °F)
Flash point:	Not applicable.
Flammability (solid, gaseous):	Not applicable.

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Decomposition temperature:	Not determined.	
Ignition temperature:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard. Not determined.	
Explosion limits: Lower: Upper:	Not determined. Not determined.	
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate	1.001 g/cm <sup>3</sup> (8.353 lbs/gal) 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.	
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 that are relevant for classification:
CAS: 7647-01-0 hydrochloric acid
Oral LD50 900 mg/kg (rabbit)
Primary irritant effect: on the skin: Caustic effect on skin and mucous membranes. on the eye: Strong caustic effect. Strong irritant with the danger of severe eye injury. Sensitization: No sensitizing effects known. Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations: Corrosive
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#### **Trade name: Cleaning solution**

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

#### **Carcinogenic categories**

IARC (International Agency for Research on Cancer)
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CAS: 7647-01-0 hydrochloric acid

# **12 Ecological information**

#### Toxicity

Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Behavior 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 bodies of water or drainage ditch undiluted or unneutralized. 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. Other adverse effects No further relevant information available.

#### 13 Disposal considerations

#### Waste treatment methods

#### Recommendation:

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

#### **Uncleaned packagings:**

**Recommendation:** *Disposal must be made according to official regulations.* **Recommended cleansing agent:** *Water, if necessary with cleansing agents.* 

#### **14 Transport information**

UN-Number	
DOT, IMDG, IATA	Void
UN proper shipping name	
DOT, IMDG, IATA	Void
Transport hazard class(es)	
DOT, ADN, IMDG, IATA	
Class	Void
Packing group	
DOT, IMDG, IATA	Void
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of	•
MARPOL73/78 and the IBC Code	Not applicable.
UN "Model Regulation":	Void

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

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# 15 Regulatory information

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

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Section 355 (extremely hazardous substances):

CAS: 7647-01-0 hydrochloric acid

Section 313 (Specific toxic chemical listings):

CAS: 7647-01-0 hydrochloric acid

TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

Hazardous Air Pollutants

CAS: 7647-01-0 hydrochloric acid

Proposition 65

Chemicals known to cause cancer:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

#### **Cancerogenity categories**

EPA (Environmental Protection Agency)

None of the ingredients is listed.

TLV (Threshold Limit Value)

CAS: 7647-01-0 hydrochloric acid

MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

#### **GHS** label elements

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



Signal word Danger

Hazard-determining components of labeling: 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/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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#### **Trade name: Cleaning solution**

Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

# 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 preparation / last revision 11/03/2023 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 DOT: US Department of Transportation 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) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Acute Toxicity - Oral 4: Acute toxicity - Category 4 Skin Corrosion 1B: Skin corrosion/irritation - Category 1B Eye Damage 1: Serious eye damage/eye irritation - Category 1 Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3 \* Data compared to the previous version altered.

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