Prople for Property Automatics

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

Product identifier

Trade name: <u>Cleaning solution</u>
Article number: CY800-FF11

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 Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

GHS label elements

GHS label elements

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

Hazard pictograms



GHS07

Signal word Warning

Hazard-determining components of labelling:

Sodium hydroxide

Hazard statements

Causes skin irritation.

Causes serious eye irritation.

Precautionary statements

Wear protective gloves / eye protection / face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

If eye irritation persists: Get medical advice/attention.

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.

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vPvB: Not applicable.

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SECTION 3: Composition or information on ingredients

Mixtures

Description: Cleansing agent

Dangerous components:		
	Sodium hydroxide	0.1-1%
EINECS: 215-185-5	Skin Corr. 1A, H314;	

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. If symptoms persist, consult a doctor.

After swallowing: If symptoms persist consult doctor.

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 No further relevant information available.

Special protective actions for fire fighters No further relevant information available.

Protective equipment: No special measures required.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures 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).

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 No special precautions are necessary if used correctly.

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Information about fire - and explosion protection: No special measures required.

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: 1310-73-2 Sodium hydroxide

OEL Short-term value: 4 mg/m³

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 and skin.

Respiratory protection: Not required.

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

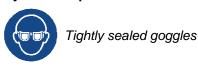
Natural rubber, NR

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 or face protection



Body protection: Protective work clothing

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SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

General Information

Physical state Fluid
Colour: Colourless
Odour: Odourless
Odour threshold: Not determined.
Melting point/freezing point: Undetermined.

الموالة ونطاق الغليان أو نقطة الغليان الأولية ونطاق الغليان 100 °C

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 >13

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: 1.005 g/cm³
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.

Explosive properties: Product does not present an explosion hazard.

Not determined.

Solvent content:

Water: 99.0% 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 flammable gases in contact with water Void

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Oxidising liquids
Oxidising solids
Void
Organic peroxides
Void
Corrosive to metals
Void
Desensitised explosives
Void

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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: 1310-73-2 Sodium hydroxide

 Oral
 LD50
 2,000 mg/kg (rat)

 Inhalative
 LC50/4 h
 125 mg/l (fish)

Skin corrosion or irritation Causes skin irritation.

Serious eye damage or irritation Causes serious eye irritation.

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.

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.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

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Trade name: Cleaning solution

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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 UN1824

UN proper shipping name

ADR UN1824 SODIUM HYDROXIDE SOLUTION

IMDG SODIUM HYDROXIDE SOLUTION

IATA Sodium hydroxide solution

Transport hazard class(es)

ADR



Class 8 (C5) Corrosive substances.

Label

IMDG, IATA



Class 8 Corrosive substances.

Label 8

Packing group

ADR, IMDG, IATA ///

Environmental hazards: Not applicable.

Special precautions for user Warning: Corrosive substances.

Hazard identification number (Kemler code): 80

EMS Number: F-A,S-B

Segregation groups (SGG18) Alkalis

Stowage Category A

Segregation Code SG35 Stow "separated from" SGG1-acids

Transport in bulk according to Annex II of

MARPOL 73/78 and the IBC Code Not applicable.

Transport/Additional information:

ADR

Limited quantities (LQ) 5L
Transport category 3
Tunnel restriction code E

IMDG

Limited quantities (LQ) 5L

Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml
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UN "Model Regulation":

UN 1824 SODIUM HYDROXIDE SOLUTION, 8, III

SECTION 15: Regulatory information

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

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

Hazard pictograms



Signal word Warning

Hazard-determining components of labelling:

Sodium hydroxide

Hazard statements

Causes skin irritation.

Causes serious eye irritation.

Precautionary statements

Wear protective gloves / eye protection / face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. If eye irritation persists: Get medical advice/attention.

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)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADR: Accord relatif au transport international des marchandises dangereuses par routé (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)

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. 1A: Skin corrosion/irritation – Category 1A Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

^{*} Data compared to the previous version altered.