

Safety data sheet

Acc. to (EC) 1907/2006 and (EC) 830/2015



RETIGO MANUAL CLEANER

Custom production

date of issue:	10. 5. 2019	revision no.:	-
date of revision:	-	version no.:	1.0

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

1.1. Product identifier

Product name: **RETIGO MANUAL CLEANER**

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Cleaning and degreasing agent.
Uses advised against: The product should not be used in other ways than listed in Section 1.

1.3. Details of the supplier of the safety data sheet

Supplier:	Everstar s.r.o.
Place of business/registered office:	Bludovská 18, 787 01 Šumperk, Czech Republic
Telephone:	+420 583 301 070
Email of competent person:	everstar@everstar.cz

1.4. Emergency telephone number

112

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

Klasifikace podle Nařízení (ES) č.1272/2008

Met. Corr. 1, H290

Skin Corr. 1A, H314

Full text of all H phrases are displayed in section 16.

The most important adverse physical effects:

May be corrosive to metals.

The most important adverse human health and environmental effects:

Causes severe skin burns and eye damage.

2.2. Label elements

Hazard pictograms:



Signal word:

Danger

Hazard statements:

H314 Causes severe skin burns and eye damage

H290 May be corrosive to metals

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Precautionary statements: P280 Wear protective gloves/protective clothing/eye protection.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338+P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor.

Additional information: -

2.3. Other hazards

Mixture does not meet the criteria for PBT or vPvB.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Component identifier	CAS No. EINECS No. Index. No. Registr. No.	Content % by wt	Classification 1272/2008
Sodium hydroxide	1310-73-2	25 - 40	Met. Corr. 1, H290 Skin Corr. 1A, H314 <i>Spec. konc. limit</i> <i>Skin Corr. 1B; H314: 2% ≤ C < 5%</i> <i>Eye Irrit. 2; H319: 0,5% ≤ C < 2%</i> <i>Skin Irrit. 2; H315: 0,5% ≤ C < 2%</i> <i>Skin Corr. 1A; H314: C ≥ 5%</i>
	215-185-5		
	011-002-00-6		
	01-2119457892-27-XXXX		
Alkyl polyglucoside	68515-73-1	2,5 – 8,0	Eye Dam 1, H318
	500-220-1		
	01-2119485530-36-XXXX		

Full text of all H phrases are displayed in section 16.

Composition according to EC-Regulation 648/2004: less than 5 % non-ionic surfactants.

SECTION 4. First aid measures

4.1. Description of first aid measures

If health problems occur or if in doubt, call medical help and provide medical staff with information from this Safety Data Sheet. If unconscious, place the patient onto the recovery position (on the side with the head tilted slightly back) and make sure the airways are clear; never induce vomiting. If vomiting spontaneously, prevent the patient from aspirating the vomit.

Inhalation / aspiration

If used as directed, the product does not cause any health problems. In other cases, discontinue exposure



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immediately, move the victim to fresh air, help them remain calm, and do not allow them to walk. Depending on the situation, rinsing the mouth and/or nose with water may be advisable. If the victim is not breathing, administer artificial respiration and seek medical attention.

Eye contact

Remove contact lenses. Rinse wide-open eyes with lukewarm running water for 10 - 30 minutes. Seek medical help. All victims must be referred for a medical examination, even if the contact is only small.

Skin contact

Take all contaminated clothing off immediately. Rinse the affected skin with plenty of lukewarm water for 10–30 minutes.

Ingestion

DO NOT INDUCE VOMITING! – There is the risk of further damage to the digestive tract! There is the risk of perforation of the stomach and esophagus!

IMMEDIATELY RINSE THE MOUTH WITH WATER and drink 2-5 dl cold water to mitigate the thermal effect of caustics. Not suitable soda and mineral water from which they can release carbon dioxide gas. Larger amounts of ingested fluid is not appropriate, it could induce vomiting and possible aspiration caustic into the lungs. If victim has pain in the mouth or throat rinse mouth with water only.

DO NOT USE ACTIVATED CARBON!

Do not give any food. Do not give anything by mouth if the patient is unconscious or having convulsions. Depending on the situation, call the ambulance or secure medical attention as quickly as possible.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation / aspiration

Normally are not expected

Skin contact

Causes severe skin burns.

Eye contact

Irritation, reddening, lacrimation, pain. Risk of irreversible eye damage.

Ingestion

Damage to the gastrointestinal tract.

4.3. Indication of any immediate medical attention and special treatment needed

No special treatment is specified. Symptomatic treatment.

SECTION 5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Alcohol resistant foam, CO₂, powder, water mist, water spray jet.

Unsuitable extinguishing media: full - water jet.



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5.2. Special hazards arising from the substance or mixture

Dense black smoke is formed in fire, carbon monoxide, carbon dioxide and other toxic gases may be generated. Inhalation of hazardous decomposition pyrolysis products may cause serious damages to health.

5.3. Advice for firefighters

Advice shall be provided on any protective actions to be taken during firefighting, such as “keep containers cool with water spray”, and on special protective equipment for firefighters, such as boots, overalls, gloves, eye and face protection and breathing apparatus.

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

The mixture is non-flammable. Provide sufficient ventilation. Use protective goggles or face shield, protective clothing, and gloves. Proceed according to the directions given in Sections 7 and 8.

6.2. Environmental precautions

Prevent contamination of soil and release to surface and ground waters and to the sewerage.

6.3. Methods and material for containment and cleaning up

Cover the spilled product with a suitable (non-combustible) absorbent material (sand, diatomaceous earth, soil, etc.); collect and store the used absorbent material in a tightly sealed container and dispose of it as described in Section 13. Dispose of the collected material in accordance with locally valid regulations. In case of large releases, inform fire brigade and environmental department of the municipal authority. After removing the mixture, wash the contaminated area with a large quantity of water or a suitable cleaning agent. Do not use solvents.

6.4. Reference to other sections

See Sections 7, 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Prevent the formation of gases and vapours in concentrations exceeding the highest permissible concentrations for workplace atmosphere. Do not smoke. Protect from direct sunlight. Do not inhale gases and vapours. Prevent contact with skin and eyes. Use personal protective equipment specified in Section 8. Observe valid legal regulations related to work safety and health protection.

7.2. Conditions for safe storage, including any incompatibilities

Store in dry, cool, and well-ventilated rooms, in original, tightly-closed vessels. Protect from direct sunlight.

7.3. Specific end use(s)

Not specified.

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SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Substance (ingredient) name	CAS No.	OSHA PEL mg/m ³
Sodium hydroxide	1310-73-2	2

8.2. Exposure controls

Observe usual occupational safety measures, particularly good ventilation. This may be achieved only by local extraction or efficient general ventilation. If PEL values cannot be met, suitable respiratory protection must be used. Do not eat, drink or smoke at work. Wash hands thoroughly with soap and water after finishing work and before taking a break.

Eye/face protection: Use protective goggles or face shield at work (according to the character of the work executed).

Skin protection:

hand protection: Wear protective gloves resistant to the product, protective clothing. Impermeable gloves acc. to EN 374, code letter A, K, L. Class 6. Observe other recommendations of the manufacturer.

other: Work clothing. When spilled on skin, wash thoroughly.

Respiratory protection: Not required at sufficient ventilation. With insufficient ventilation use a respirator or other suitable respiratory protection - filter type A-P2

Thermal hazard: No.

Environmental exposure controls: Prevent releases to soil and waters.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

a) Appearance (physical state, colour):	liquid at 20°C, brown
b) Odour:	After ingredients used
c) Odour threshold:	data is not available
d) pH:	cca 12,4 (1% solution at 20 °C)
e) Melting point/freezing point:	data is not available
f) Initial boiling point and boiling range:	not given
g) Flash point:	data is not available
h) Evaporation rate:	data is not available
i) Flammability (solid, gas):	not given
j) Upper/lower flammability or explosive limits:	data is not available
k) Vapour pressure:	data is not available
l) Vapour density:	data is not available
m) Relative density:	data is not available
n) Solubility(ies):	miscible in water
o) Partition coefficient: n-octanol/water:	data is not available
p) Auto-ignition temperature:	data is not available
q) Decomposition temperature:	data is not available
r) Viscosity:	data is not available
s) Explosive properties:	data is not available
t) Oxidising properties:	data is not available



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9.2. Other information

Data is not available.

SECTION 10. Stability and reactivity

10.1. Reactivity

Data is not available.

10.2. Chemical stability

Stable at normal temperature and pressure.

10.3. Possibility of hazardous reactions

No hazardous reactions occur.

10.4. Conditions to avoid

Protect from naked flame, sparks, overheating, and frost.

10.5. Incompatible materials

Keep separate from strong acids, alkalis, and oxidising agents in order to prevent the occurrence of hazardous exothermic reactions.

10.6. Hazardous decomposition products

None is formed at a normal method of use. Hazardous products, such as carbon monoxide, carbon dioxide, smoke and nitrogen oxides, are formed high temperatures and in fire.

SECTION 11. Toxicological information

11.1. Information on toxicological effects

a) **acute toxicity:** data for mixture is not available

Component	Test	Result	Route of exposure	Test organism
Sodium hydroxide	LD50	500 mg/kg	oral	rabbit
	LD50	1350 mg/kg	dermal	rabbit
Alkyl polyglucoside (CAS 68515-73-1)	LD50	>5000 mg/kg (OECD- 401)	oral	rat
	LD0	> 2000 mg/kg (OECD-402)	dermal	rabbit
	LD50	> 2000 mg/kg	dermal	rabbit

b) **skin corrosion/irritation:** Causes severe skin corrosion.

c) **serious eye damage/irritation:** Causes severe eye damage.

d) **respiratory or skin sensitisation:** based on available data, the classification criteria are not met

e) **germ cell mutagenicity:** based on available data, the classification criteria are not met



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- f) **carcinogenicity:** based on available data, the classification criteria are not met
- g) **reproductive toxicity:** based on available data, the classification criteria are not met
- h) **STOT-single exposure:** based on available data, the classification criteria are not met
- i) **STOT-repeated exposure:** based on available data, the classification criteria are not met
- j) **aspiration hazard:** based on available data, the classification criteria are not met

SECTION 12. Ecological information

12.1. Toxicity

Data for mixture is not available.

Sodium hydroxide (CAS: 1310-73-2):

LC50, 96h, fish tox.: 125 mg/l (Gambusia affinis)
EC50, 48h, daphnia tox.: 40,4 mg/l (Ceriodaphnia sp.)

Alkyl polyglucoside (CAS: 68515-73-1)

EC 10 1.76 mg/l (Daphnia magna) (21 d)
EC 50 > 100 mg/l (Daphnia magna) (OECD-guideline 202, part 1)
EC 50 / 48 h < 100 mg/l (Daphnia magna) (OECD 202)
EC 50 / 72 h 27.22 mg/l (Scenedesmus subspicatus)
LC 50 > 100 mg/l (Brachydanio rerio) (DIN EN ISO 7346-2)
LC 50 / 96 h 126 mg/l (fish)

12.2. Persistence and degradability

The surfactants contained in the preparation correspond to the requirements of the European Communities on biodegradability of surfactants (648/2004 EC). The surfactants contained in the preparation are in accordance with the biodegradation criterion according to EU Regulation 648/2004 on detergents. Data confirming this statement are available for competent institutions of the EU member states upon their direct request.

12.3. Bioaccumulative potential

Data is not available.

12.4. Mobility in soil

The product is soluble and mobile in soil and water. Possible contamination of watercourses due to rain.

12.5. Results of PBT and vPvB assessment

Based on available data, the classification criteria are not met.

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12.6. Other adverse effects

Data not available.

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Unused remnants and preparation are to be disposed of as hazardous waste. Proceed according to the regulations on the disposal of special waste on a secured dump site for this waste, or in a hazardous waste incineration plant. Product packaging should be emptied as much as possible. Cleaned packaging may be recycled.

SECTION 14. Transport information

14.1. UN number

UN 1824

14.2. UN proper shipping name

SODIUM HYDROXIDE SOLUTION

14.3. Transport hazard class(es)

8

14.4. Packing group

II



14.5. Environmental hazards

Mixtur is not hazardous for the environment during the transport.

14.6. Special precautions for user

See Sections 4 - 8.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not transported in bulk.

Additional information

Avoid transport on vehicles where the load space is not separated from the driver's compartment. Make sure that the driver is aware of the potential hazards of the load, and be instructed on how to proceed in case of accident or danger.

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006

Commission Regulation (EU) 2015/830 of 28 May 2015

OSHA (Occupational Safety & Health Administration)

15.2. Chemical safety assessment

Has not been performed.



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SECTION 16. Other information

- a) Changes that have been made to the previous version of the safety data sheet: none
- b) Legend to abbreviations and acronyms used in the safety data sheet:
- | | |
|-------------|--|
| CAS | unique numerical identifier assigned by Chemical Abstracts Service (CAS) to every chemical substance |
| CLP | classification, labelling and packaging |
| EC50 | half maximal effective concentration |
| IC50 | half maximal inhibitory concentration |
| LC50 | lethal concentration |
| LD50 | median lethal dose |
| EINECS | European Inventory of Existing Chemical Substances |
| ICAO | International Civil Aviation Organization |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| MARPOL | International Convention for the Prevention of Pollution from Ships |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| PBT | Persistent, bioaccumulative and toxic |
| vPvB | Very persistent and very bioaccumulative |
| IBC | International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals |
| MAC | Maximum Allowable Concentration |
| PEL | Permissible Exposure Limit |
| Eye Dam | Serious damage to eyes |
| Met.Corr. | Substance or mixture corrosive to metals |
| Skin Corr. | Corrosive to skin |
| Eye Irrit. | Serious eye irritation |
| Skin Irrit. | Skin irritation |
- c) key literature references and sources for data: Safety Data Sheet was compiled with data from the manufacturer's safety data sheets and data from ECHA database.
- d) methods of evaluating for the purpose of classification according to 1272/2008 (EC): calculation method
- e) list of relevant hazard statements:
- H290 May be corrosive to metals.
 - H315 Causes skin irritation.
 - H314 Causes severe skin burns and eye damage.
 - H318 Causes serious eye damage.
 - H319 Causes serious eye irritation.
- f) advice on any training appropriate for workers to ensure protection of human health and the environment: Acquaint workers with the recommended method of use, mandatory protective equipment, first aid measures, and prohibited handling with the mixture.

Other information: The Safety Data Sheet contains data for ensuring occupational safety and health protection and environmental protection. The data given correspond to the present state of knowledge and experience and comply with valid legal regulations. They may not be considered a guarantee of suitability and usability of the product for particular applications.