RETIGO ACTIVE CLEANER

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

1.1. Product identifier

Product name: **Retigo Active Cleaner Tub of 50 x 60g**
Product code: **71477**

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

Relevant identified uses: Cleaning and degreasing agent for steam ovens.
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

Trust Hygiene Services Ltd, Principle House, Leamore Lane, Bloxwich, Walsall, WS2 7PS
Email: sales@trusthygiene.co.uk
Telephone: 0370 3500 988 (09:00 to 17:00 Mon-Fri)

1.4. Emergency telephone number

(UK) NHS 111 / 999

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
STOT SE 3, H335
Aquatic Chronic 3, H412

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. May cause respiratory irritation. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictograms:

Signal word: Danger

Hazard statements:
H290 May be corrosive to metals
H314 Causes severe skin burns and eye damage
H335 May cause respiratory irritation
H412 Harmful to aquatic life with long lasting effects

Precautionary statements:
P280: Wear protective gloves, eye protection
P261: Avoid breathing dust.
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/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: EUH031 – Contact with acids liberates toxic gas

2.3. Other hazards

Mixture does not meets 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	1310-73-2 215-185-5 011-002-00-6	20 - 40	Met. Corr. 1, H290 Skin Corr. 1A, H314 *Spec. konc. limit* *Skin Corr. 1B; H314: 2% ≤ C < 5%* *Eye Irrit. 2; H319: 0,5% ≤ C < 2%* *Skin Irrit. 2; H315: 0,5% ≤ C < 2%* *Skin Corr. 1A; H314: C ≥ 5%*
Sodium metasilicate pentahydrate	10213-79-3 229-912-9	10 - 30	Met. Corr. 1, H290 Skin Corr. 1B, H314 STOT SE 3, H335
Troclosene sodium, dihydrate	51580-86-0 220-767-7 613-030-01-7	1 - 2	Acute Tox. 4, H302 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400

			Aquatic Chronic 1, H410 EUH031
Alcohols, C8-10, ethers with polyethylene-polypropylene glycol monobenzyl ether	68154-99-4	0,5 – 2,0	Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Dam 1, H318

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

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
Take the affected person to fresh air and keep him/her warm and at rest (both physically and mentally). Immediately seek medical help.

Eye contact
Remove contact lenses. Rinse wide-open eyes with lukewarm running water for 10 - 30 minutes, seek medical help.

Skin contact
Take all contaminated clothing off immediately. Wash affected skin with soap and warm water.

Ingestion
DO NOT INDUCE VOMITING! – There is the risk of father damage to the digestive tract! There is the risk of perforation of the stomach and esophagus!
IMMEDIATELY RINCE THE MOUTH WITH WATER and drink 2-5 dl cold water to mitigate the thermal effeck of caustics. Not suitable soda and mineral water from witch 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 rince mouth with water only.
DO NOT USE ACTIVATED CARBON!
Do not give any food. Do not give anything by mouth if the patient is unconcious 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
Irritation of airways, coughing, headache.

Skin contact
Irritation.

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.

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

Contain the spilt mixture with a suitable (non-flammable) absorbing material (sand, diatomaceous earth, soil, and other suitable materials), place it in well closed vessels, and dispose of as specified 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.

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

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):	solid at 20°C, white-blue granules
b) Odour:	po použitých surovinách
c) Odour threshold:	data is not available
d) pH:	cca 13,3 (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):	neuvádí se
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):	soluble 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

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	Test

			exposure	organism
Sodium hydroxide	LD50	500 mg/kg	oral	rabbit
	LD50	1350 mg/kg	dermal	rabbit
Sodium metasilicate pentahydrate	LD50	1152 - 1349 mg/kg	oral	rat
	LD50	> 5000 mg/kg	dermal	rat
	LC50	> 2,06 g/m3	inhalation	rat
Troclosene sodium, dihydrate	LD50	1400 mg/kg	oral	rat
	LD50	> 2000 mg/kg	dermal	rabbit
	LC50	877 - 950 mg/l 1 h	inhalation	rat
Alcohols, C8-10, ethers with polyethylene-polypropylene glycol monobenzyl ether	LD50	2414 mg/kg	oral	rat
	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

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:** inhalation of dust can cause respiratory irritation

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.)

Sodium metasilicate pentahydrate (CAS 10213-79-3):
LC50, 96h, fish tox.: 2320 mg/l (Gambusia affinis)
EC50, 48h, daphnia tox.: 1700 mg/l (Daphnia magna)
EC50, 72h, algeal tox.: 207 mg/l (Scenedesmus subspicatus)

Troclosene sodium, dihydrate (CAS: 51580-86-0):
LC50, fish tox., 96h: > 2100 mg/l (Pimephales promelas)

LC50, daphnia tox., 48h: 0,196 mg/l (Daphnia magna)
EC50, algeal tox., 24h: > 1000 mg/l (Selenastrum capricornutum)

Alcohols, C8-10, ethers with polyethylene-polypropylene glycol monobenzyl ether (CAS: 68154-99-4):
LC50, fish tox., 96h: 164 mg/l
IC50, bactrial tox., 16h: 4900 mg/l
EC50, daphnia tox., 48h: 6,3 mg/l

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.

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. Sewage disposal shall be.

SECTION 14. Transport information

14.1. UN number

UN 3262

14.2. UN proper shipping name

CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE, SODIUM TRIOXOSILICATE)

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.

Doplňující informace

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.

SECTION 16. Other information

a) Changes that have been made to the previous version of the safety data sheet: no
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
STOT SE	Specific target organ toxicity — single exposure
Acute Tox.	Acute toxicity
Aquatic Acute	Hazardous to the aquatic environment (acute)
Aquatic Chronic	Hazardous to the aquatic environment (chronic)

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.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

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.