Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 23.12.2021 *Version number 19 (replaces version 18)* *Revision: 23.12.2021*

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

1.1 Product identifier

Trade name: calgonit TA

1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.
Application of the substance / the mixture
Product is for professional use only.
Disinfectant and Cleaning agent

1.3 Details of the supplier of the safety data sheet
Manufacturer/Supplier:
Calvatis GmbH, 68526 Ladenburg-Germany, Dr.-Albert-Reimann-Str. 16 a
Tel.: +49 (0)6203 105-0, Fax: +49 (0)6203 105-111

Calvatis GmbH, 4600 Wels-Austria, Kaiser-Josef-Platz 41
Tel.: +43 (0)7242 42899-0, Fax: +43 (0)7242 42899-22

Informing department:
Calvatis GmbH Germany, Laboratory, Tel.: +49(0)6203-105 190

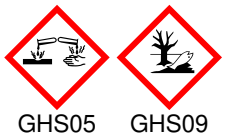
Sicherheitsdatenblatt@calvatis.com
1.4 Emergency telephone number:
Berlin - Institut für Toxikologie - Klinische Toxikologie und Giftnotruf Berlin
Tel. (+49) 030 30686 700
E-Mail: mail@giftnotruf.de

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008

Met. Corr.1	H290 May be corrosive to metals.
Skin Corr. 1A	H314 Causes severe skin burns and eye damage.
Eye Dam. 1	H318 Causes serious eye damage.
Aquatic Acute 1	H400 Very toxic to aquatic life.
Aquatic Chronic 1	H410 Very toxic to aquatic life with long lasting effects.

2.2 Label elements
Labelling according to Regulation (EC) No 1272/2008
The product is classified and labelled according to the CLP regulation.
Hazard pictograms



GHS05 GHS09

Signal word Danger

Hazard-determining components of labelling:
sodium hydroxide
sodium hypochlorite, solution
Hazard statements
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements

P260	Do not breathe mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves / eye protection.
P280	Wear protective clothing.
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	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P314 Get medical advice/attention if you feel unwell.
P406 Store in a corrosion resistant container / container with a resistant inner liner.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:
EUH031 Contact with acids liberates toxic gas.
2.3 Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures Solution of causic alkalies, sodium hypochlorite and dispersants in water.

Dangerous components:		
CAS: 1310-73-2 EINECS: 215-185-5 Index number: 011-002-00-6 Reg.nr.: 01-2119457892-27	sodium hydroxide Met. Corr.1, H290; Skin Corr. 1A, H314 Specific concentration limits: Skin Corr. 1A; H314: C ≥ 5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0.5 % ≤ C < 2 % Eye Irrit. 2; H319: 0.5 % ≤ C < 2 %	5-15%
CAS: 7681-52-9 EINECS: 231-668-3 Index number: 017-011-00-1 Reg.nr.: 01-2119488154-34	sodium hypochlorite, solution Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 2, H411; STOT SE 3, H335, EUH031 Specific concentration limit: EUH031: C ≥ 5 %	1 - < 5%

Classification in accordance with Directive 648/2004:	
chlorine-based bleaching agents, phosphonates	<5%

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

SECTION 4: First aid measures

4.1 Description of first aid measures
General information Instantly remove any clothing soiled by the product.
After inhalation Supply fresh air and call for doctor for safety reasons.
After skin contact
Instantly wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
After eye contact Rinse opened eye for several minutes under running water. Then consult doctor.
After swallowing
Rinse out mouth and then drink plenty of water.
Seek medical treatment.
4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents
Use fire fighting measures that suit the environment.
CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
5.2 Special hazards arising from the substance or mixture
In case of contact with acids liberation of chlorine is possible.
5.3 Advice for firefighters
Protective equipment: Wear self-contained breathing apparatus.
Additional information
Product is not combustible.

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Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear protective clothing.
In case of liberation of chlorine wear respiratory protection.
6.2 Environmental precautions:
Do not allow product to reach sewage systems or water bodies in great quantities.
6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, universal binder). Do not use combustible material like sawdust.
Dispose of the material collected according to regulations.
6.4 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 information on disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Do not mix with other products, particularly not with acids.
Do not close container gas-tight. Containers of delivery have degassing valve.
Information about protection against explosions and fires: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities
Storage
Requirements to be met by storerooms and containers:
The official regulations for storage of chemicals hazardous to water must be observed.
Use only containers specifically permitted for this substance/product.
Information about storage in one common storage facility:
Special Storage of hazardous substances.
Do not store together with acids.
Further information about storage conditions:
Store in a cool place.
Protect from heat and direct sunlight.
Storage class TRGS 510: LGK 8B
7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with limit values that require monitoring at the workplace:	
CAS: 1310-73-2 sodium hydroxide	
WEL	Short-term value: 2 mg/m³

Additional information: The lists that were valid during the compilation were used as basis.

8.2 Exposure controls
Individual protection measures, such as personal protective equipment
General protective and hygienic measures
The usual precautionary measures should be adhered to general rules for handling chemicals.
Keep away from foodstuffs, beverages and food.
Avoid contact with the eyes and skin.
Take off immediately all contaminated clothing
Breathing equipment:
Use breathing protection only when aerosol or mist is formed.
Multi-purpose filter A-B-E-K
Hand protection Chemical resistant protectiv gloves (EN 374).
Material of gloves
Chemical protection gloves of the category III in accordance with EN 374. Consider the data of the manufacturers at the permeability and break-through times as well as the special conditions on the job

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(mechanical load, contact duration)
Thickness: > 0.4 mm, Breakthrough time: > 480 min, Material: nitrile, butyl rubber
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.
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/face protection Tightly sealed safety glasses (EN 166).
Body protection: Wear suitable protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information	
Colour:	Yellowish
Odour:	chlorine-like
Odour threshold:	Not determined
Melting point/freezing point:	Not determined
Boiling point or initial boiling point and boiling range	>100 °C
Flash point:	Not applicable
Self-inflammability:	Product is not selfigniting.
Decomposition temperature:	Not determined
pH (10 g/l) at 20 °C	12.4
Solubility	
Water:	Fully miscible
Density and/or relative density	
Density at 20 °C	1.18 g/cm3

9.2 Other information

Appearance:	
Form:	Fluid
Important information on protection of health and environment, and on safety.	
Ignition temperature:	Not determined
Change in condition	
Crystallisation temperature / range:	<-15 °C
Oxidising properties	no

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

May be corrosive to metals.

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Desensitised explosives	Void

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.
10.2 Chemical stability
Thermal decomposition / conditions to be avoided:
Slow liberation of Oxygene in case of elevated temperatures.
10.3 Possibility of hazardous reactions
Contact with acids releases toxic gases
Reacts with light alloys to form hydrogen
10.4 Conditions to avoid No further relevant information available.
10.5 Incompatible materials: Acids
10.6 Hazardous decomposition products: Chlorine(with acid)

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
Acute toxicity No data for the preparation available.

LD/LC50 values that are relevant for classification:		
CAS: 1310-73-2 sodium hydroxide		
Oral	LD50	2000 mg/kg (rat)

Skin corrosion/irritation
Causes severe skin burns and eye damage.
Serious eye damage/irritation
Causes serious eye damage.
Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
Germ cell mutagenicity Based on available data, the classification criteria are not met.
Carcinogenicity Based on available data, the classification criteria are not met.
Reproductive toxicity Based on available data, the classification criteria are not met.
STOT-single exposure Based on available data, the classification criteria are not met.
STOT-repeated exposure Based on available data, the classification criteria are not met.
Aspiration hazard Based on available data, the classification criteria are not met.
Additional toxicological information:
Chlorine released in result of contact with acids may cause severe damage of eyes and respiratory tract.
The toxicological evaluation of the preparation took place in accordance with computation methods after GefStoffV / CLP regulation.
11.2 Information on other hazards

Endocrine disrupting properties
None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity: No further relevant information available.
12.2 Persistence and degradability No further relevant information available.
12.3 Bioaccumulative potential No further relevant information available.
12.4 Mobility in soil No further relevant information available.
12.5 Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.
12.6 Endocrine disrupting properties
The product does not contain substances with endocrine disrupting properties.
12.7 Other adverse effects
Additional ecological information:
COD-value: 27 g O2/kg product
AOX-indication: Product halogenates and contributes to the AOX-value.

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General notes:
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
In case of product reaches waters untreated, harmful effects on fish and aquatic organism are possible (pH-shift and release of chlorine).

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Recommendation Must be specially treated with regard to official regulations.
Waste disposal key number:
The exact waste code must be agreed with the disposer.
Hazardous waste according to European Waste Catalogue (EWC).

Uncleaned packagings:
150110 **packaging containing residues of hazardous substances or contaminated by hazardous substances.**
Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN number or ID number
ADR, IMDG, IATA UN1719

14.2 UN proper shipping name
ADR 1719 CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM HYDROXIDE, HYPOCHLORITE SOLUTION), ENVIRONMENTALLY HAZARDOUS
1719 ÄTZENDER ALKALISCHER FLÜSSIGER STOFF, N.A.G. (NATRIUMHYDROXID, HYPOCHLORITLÖSUNG), UMWELTGEFÄHRDEND
IMDG CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM HYDROXIDE, HYPOCHLORITE SOLUTION), MARINE POLLUTANT
IATA CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM HYDROXIDE, HYPOCHLORITE SOLUTION)

14.3 Transport hazard class(es)
ADR

Class 8 (C5)
Label 8

IMDG

Class 8
Label 8
IATA

Class 8
Label 8

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14.4 Packing group	
ADR, IMDG	II
14.5 Environmental hazards:	
Marine pollutant:	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user	
Kemler Number:	80
EMS Number:	F-A,S-B
Segregation groups	Alkalis
Stowage Category	A
Segregation Code	SG22 Stow "away from" ammonium salts SG35 Stow "separated from" SGG1-acids
14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
Transport category	2
Tunnel restriction code	E
Remarks:	Dependent on the packing variant special arrangements for "limited quantities" and exemptions (addr Kap.3.4.) can be taken up.
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1719 CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM HYDROXIDE, HYPOCHLORITE SOLUTION), 8, II, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

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

Directive 2012/18/EU
Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

National regulations registered as a biocide

Decree to be applied in case of technical fault:

Water hazard class (Germany): Water hazard class 2 (Self-assessment): hazardous for water.

Other regulations, limitations and prohibitive regulations
Substances of very high concern (SVHC) according to REACH, Article 57
The product contains no substances from SVHC list.
15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

The above information is based on our present knowledge about the product. It does not guarantee specific product features.

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Full text of R-phrases listed in chapters 2 and 3:
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.
EUH031 Contact with acids liberates toxic gas.
Department issuing data specification sheet: Calvatis GmbH Germany, Laboratory
Reference to modifications:
Please take notice of the changes made in compare to the last version from 18 in the following sections: 15.16
Abbreviations and acronyms:
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
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
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
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Met. Corr.1: Corrosive to metals – Category 1
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
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
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Sources KC-528155k