Safety data sheet

COMMISSION REGULATION (EC) 2020/878 , amending Article 31 of Annex II to Regulation (EC) No 1907/2006

Printing date 02.05.2024 *Version number 45 (replaces version 44)* *Revision: 02.05.2024*

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

1.1 Product identifier

Trade name: calgonit DS 625

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

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Calvatis GmbH, 68526 Ladenburg-Germany, Am Hafen 16
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

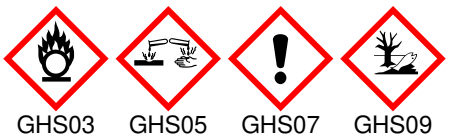
Ox. Liq. 2	H272 May intensify fire; oxidiser.
Met. Corr.1	H290 May be corrosive to metals.
Acute Tox. 4	H302 Harmful if swallowed.
Acute Tox. 4	H332 Harmful if inhaled.
Skin Corr. 1A	H314 Causes severe skin burns and eye damage.
Eye Dam. 1	H318 Causes serious eye damage.
Aquatic Chronic 1	H410 Very toxic 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 GB CLP regulation.

Hazard pictograms



GHS03 GHS05 GHS07 GHS09

Signal word Danger

Hazard-determining components of labelling:

hydrogen peroxide solution
peracetic acid
acetic acid

Hazard statements

H272	May intensify fire; oxidiser.
H290	May be corrosive to metals.
H302+H332	Harmful if swallowed or if inhaled.
H314	Causes severe skin burns and eye damage.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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P234	Keep only in original packaging.
P260	Do not breathe mist/vapours/spray.
P280	Wear protective gloves / eye protection.
P280	Wear protective clothing.
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.
P310	Immediately call a POISON CENTER/doctor.
P403	Store in a well-ventilated place.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:
EUH071 Corrosive to the respiratory tract.
Contains biocidal products: peracetic acid
2.3 Other hazards Violent reaction when mixing with oxidizable material possible.
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures Solution of peracetic acid, acetic acid, hydrogen peroxide and stabilizers in water.

Dangerous components:

CAS: 7722-84-1 EINECS: 231-765-0 Index number: 008-003-00-9 Reg.nr.: 01-2119485845-22	hydrogen peroxide solution Ox. Liq. 1, H271; Skin Corr. 1A, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H332; STOT SE 3, H335; Aquatic Chronic 3, H412 Specific concentration limits: Ox. Liq. 1; H271: C ≥ 70 % Ox. Liq. 2; H272: 50 % ≤ C < 70 % Skin Corr. 1A; H314: C ≥ 70 % Skin Corr. 1B; H314: 50 % ≤ C < 70 % Skin Irrit. 2; H315: 35 % ≤ C < 50 % Eye Dam. 1; H318: C ≥ 8 % Eye Irrit. 2; H319: 5 % ≤ C < 8 % STOT SE 3; C ≥ 35 %	≥ 25 - < 35%
CAS: 64-19-7 EINECS: 200-580-7 Index number: 607-002-00-6 Reg.nr.: 01-2119475328-30	acetic acid Skin Corr. 1A, H314; Eye Dam. 1, H318 Specific concentration limits: Skin Corr. 1A; H314: C ≥ 90 % Skin Corr. 1B; H314: 25 % ≤ C < 90 % Skin Irrit. 2; H315: 10 % ≤ C < 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 %	≥ 2.5 - < 10%
CAS: 79-21-0 EINECS: 201-186-8 Index number: 607-094-00-8	peracetic acid Flam. Liq. 3, H226; Org. Perox. D, H242; Skin Corr. 1A, H314; Aquatic Acute 1, H400 (M=1); Aquatic Chronic 1, H410 (M=10); Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; STOT SE 3, H335 Specific concentration limit: STOT SE 3; H335: C ≥ 1 %	≥ 2.5 - < 10%

Classification in accordance with Directive 648/2004:

oxygen-based bleaching agents	≥15 - <30%

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

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SECTION 4: First aid measures

4.1 Description of first aid measures
General information
Instantly remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
After inhalation Supply fresh air; consult doctor in case of symptoms.
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
Induce vomiting and call for medical help.
Drink copious amounts of water and provide fresh air. Instantly call for doctor.
4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
Danger Danger of gastric perforation.
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
CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
For safety reasons unsuitable extinguishing agents not known
5.2 Special hazards arising from the substance or mixture
In case of fire can be released:
oxygen
5.3 Advice for firefighters
Protective equipment:
Wear self-contained breathing apparatus.
Wear full protective suit.
Put on breathing apparatus.
Additional information
Cool endangered containers with water spray jet.
Product is not combustible but may assist fire by oxygen donation.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
After running out to spill well air.
Protective clothing and breath full protection mask with filter ABEK P3 carry.
Ensure adequate ventilation
6.2 Environmental precautions:
Dilute with much water.
Do not allow to enter drainage system, surface or ground water.
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.
Ensure adequate ventilation.
Treat recovered material in accordance with Section disposal.
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.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling
Do not mix with other products.
Do not close container gas-tight. Containers of delivery have degassing valve.
Ensure good ventilation/exhaustion at the workplace.
Prevent impurities.
Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.

7.2 Conditions for safe storage, including any incompatibilities
Storage
Requirements to be met by storerooms and containers:
Provide acid-resistant floor.
Store only in the original container.
Store in cool location.
Use only containers specifically permitted for this substance/product.
The official regulations for storage of chemicals hazardous to water must be observed.
Information about storage in one common storage facility: Special Storage of hazardous substances.
Further information about storage conditions:
Store in a cool place.
Protect from frost.
Protect from heat and direct sunlight.
Recommended storage temperature of 20°C to 30°C.
Storage class TRGS 510: LGK 5.1 B
7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

CAS: 7722-84-1 hydrogen peroxide solution	
WEL	Short-term value: 2.8 mg/m³, 2 ppm Long-term value: 1.4 mg/m³, 1 ppm
CAS: 64-19-7 acetic acid	
WEL	Short-term value: 50 mg/m³, 20 ppm Long-term value: 25 mg/m³, 10 ppm

8.1 Control parameters
Components with limit values that require monitoring at the workplace:
CAS No. Designation of material % Type Value Unit
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
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.
Avoid contact with the eyes and skin.
Wash hands during breaks and at the end of the work.
Keep away from foodstuffs, beverages and food.
Take off immediately all contaminated clothing
Breathing equipment:
Use a breathing protection if high concentrations are present.
combinations filter B-NO-P2
filter: E-P2 (combination filter: ABE2K1P2-EN 14387)
Hand protection Chemical resistant protectiv gloves (EN 374).
Material of gloves
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.
Butyl rubber
Fluorocarbon rubber (Viton)
Recommended thickness of the material: ≥ 0.5-0.7 mm
Penetration time: > = 480 min

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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.
Not suitable are gloves made of the following materials:
Leather gloves
Strong gloves
Natural rubber, NR
Nitrile rubber, NBR
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	
Physical state	Fluid
Colour:	Colourless
Odour:	pungent
Odour threshold:	Not determined
Melting point/freezing point:	< - 18 °C
Boiling point or initial boiling point and boiling range	≥ 100 °C
Flammability	May cause fire.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	> 100 °C
Auto-ignition temperature:	Not determined
Decomposition temperature:	> 50°C for IBC and smaller temperature control (SADT)
pH (10 g/l) at 20 °C	3.2
Viscosity:	
Kinematic viscosity	Not determined.
dynamic:	Not determined.
Solubility	
Water:	Fully miscible
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not determined
Density and/or relative density	
Density at 20 °C	1.12 g/cm³
Relative density	Not determined
Vapour density	Not determined

9.2 Other information

Appearance:	
Form:	Fluid
Important information on protection of health and environment, and on safety.	
Self-inflammability:	Product is not selfigniting.
Explosive properties:	Not determined.
Change in condition	
Crystallisation temperature / range:	Not determined
Oxidising properties	no
Evaporation rate	Not determined.

Information with regard to physical hazard classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void

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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	May intensify fire; oxidiser.
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	May be corrosive to metals.
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:
To avoid thermal decomposition do not overheat.
Slow liberation of oxygen at room temperature.
Decomposition under influence of light.
10.3 Possibility of hazardous reactions
Soiling with heavy metals, alkalis and organic material can cause violent decomposition.
10.4 Conditions to avoid No further relevant information available.
10.5 Incompatible materials:
Heavy metal
Strong bases
10.6 Hazardous decomposition products: Oxygen

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
Acute toxicity
Harmful if swallowed or if inhaled.
LD/LC50 values that are relevant for classification:

Components	Type	Value	Species
CAS: 7722-84-1 hydrogen peroxide solution			
Oral	LD50	1,190-1,270 mg/kg	(Rat)
Dermal	LD50	>2,000 mg/kg	(Rat)
CAS: 79-21-0 peracetic acid			
Oral	LD50	100 mg/kg	(Rat)
Dermal	LD50	1,100 mg/kg	(Rabbit)
CAS: 64-19-7 acetic acid			
Oral	LD50	3,310 mg/kg	(rat)
Dermal	LD50	1,130 mg/kg	(rbt)
Inhalative	LC50/4 h	>16 mg/l	(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.

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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:
The toxicological evaluation of the preparation took place in accordance with computation methods after GefStoffV / GB 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: 167 g O2/kg product
Remark: In the effluent biologically and abiotic degradably.Decomposition in the acetic acid,water and oxygen.
General notes:
If product reaches water untreated, harmful effect on aquatic organism and fish are possible (pH-shift and release of Peracetic acid).
In waste water rapid reduction or decomposition to Acetic acid and Oxygen.
Biologically degradable.
Do not allow product to reach ground water, water bodies or sewage system.

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.
Is recycling not possible, waste must be disposed in compliance with local regulations.

Uncleaned packagings:
150110 **packaging containing residues of hazardous substances or contaminated by hazardous substances.**
Recommendation: Disposal must be made according to official regulations.
Recommended cleaning agent: Water, if necessary with cleaning agent.

SECTION 14: Transport information

14.1 UN number or ID number ***ADR, IMDG, IATA***	UN3149
14.2 UN proper shipping name ***ADR***	3149 HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED solution, ENVIRONMENTALLY HAZARDOUS

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IMDG	HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED solution, MARINE POLLUTANT
IATA	HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED solution

14.3 Transport hazard class(es)

ADR

Class	5.1 (OC1) Oxidising substances.
Label	5.1+8

IMDG

Class	5.1 Oxidising substances.
Label	5.1/8

IATA

Class	5.1 Oxidising substances.
Label	5.1 (8)

14.4 Packing group	
ADR, IMDG, IATA	II
14.5 Environmental hazards:	
Marine pollutant:	no Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Oxidising substances.
Kemler Number:	58
EMS Number:	F-H,S-Q
Segregation groups	Peroxides
Stowage Category	D
Stowage Code	SW1 Protected from sources of heat.
Segregation Code	SG16 Stow "separated from" class 4.1 SG59 Stow "separated from" SGG14-permanganates SG72 See 7.2.6.3.2.
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

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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 3149 HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED SOLUTION, 5.1 (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
Named dangerous substances - ANNEX I None of the ingredients is listed.
Seveso category
P8 OXIDISING LIQUIDS AND SOLIDS
E1 Hazardous to the Aquatic Environment
Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

National regulations registered as a biocide

Information about limitation of use:
Employment restrictions concerning young persons must be observed.
Employment restrictions concerning pregnant and lactating women must be observed.

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

Other regulations, limitations and prohibitive regulations
REGULATION (EU) 2019/1148 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 20 June 2019 on the marketing and use of explosives precursors.
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.

Full text of R-phrases listed in chapters 2 and 3:
H226 Flammable liquid and vapour.
H242 Heating may cause a fire.
H271 May cause fire or explosion; strong oxidiser.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H332 Harmful if inhaled.
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.
Department issuing data specification sheet: Sicherheitsdatenblatt@calvatis.com
Reference to modifications:
Please take notice of the changes made in compare to the last version from 44 in the following sections: 9
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

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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
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 3: Flammable liquids – Category 3
Ox. Liq. 1: Oxidizing liquids – Category 1
Ox. Liq. 2: Oxidizing liquids – Category 2
Org. Perox. D: Organic peroxides – Type C/D
Met. Corr.1: Corrosive to metals – Category 1
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
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 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
Sources KC-225121s