

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

Printing date 11.02.2022

Version number 14 (replaces version 13)

Revision: 11.02.2022

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

**1.1 Product identifier**

**Trade name: calgomat FS extra**

**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.

Cleaning material/ Detergent

**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

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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.

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.

**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 GHS07

**Signal word** Danger

**Hazard-determining components of labelling:**

nitric acid

phosphoric acid

**Hazard statements**

H290 May be corrosive to metals.

H332 Harmful if inhaled.

H314 Causes severe skin burns and eye damage.

**Precautionary statements**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face 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 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P314 Get medical advice/attention if you feel unwell.

P406 Store in a corrosion resistant container / container with a resistant inner liner.

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P501 Dispose of contents/container in accordance with local/regional/national/international regulations. (Contd. of page 1)

**Additional information:**  
EUH071 Corrosive to the respiratory tract.

**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 inorganic acids and surfactants in water.

**Dangerous components:**

CAS: 7697-37-2 EINECS: 231-714-2 Index number: 007-004-01-9 Reg.nr.: 01-2119487297-23	nitric acid ⚠ Acute Tox. 3, H331; ⚠ Met. Corr.1, H290; Skin Corr. 1A, H314, EUH071 Specific concentration limits: Skin Corr. 1A; H314: C ≥ 20 % Skin Corr. 1B; H314: 5 % ≤ C < 20 % Skin Irrit. 2; H315: 1 % ≤ C < 5 % Eye Dam. 1; H318: C ≥ 3 % Eye Irrit. 2; H319: 1 % ≤ C < 3 %	10 - < 26%
CAS: 7664-38-2 EINECS: 231-633-2 Index number: 015-011-00-6 Reg.nr.: 01-2119485924-24	phosphoric acid ⚠ Met. Corr.1, H290; Skin Corr. 1B, H314 Specific concentration limits: Skin Corr. 1B; H314: C ≥ 25 % Skin Irrit. 2; H315: 10 % ≤ C < 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 %	1 - < 5%

**Classification in accordance with Directive 648/2004:**

Phosphates (as H3PO4), anionic surfactants	<5%
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**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** 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.

**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** No further relevant information available.

**5.3 Advice for firefighters**

**Protective equipment:** Wear self-contained breathing apparatus.

**Additional information** Product is not combustible.

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**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures** Wear protective clothing.

**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, especially strong alkalis.

**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.

**Further information about storage conditions:** Keep container tightly sealed.

**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: 7664-38-2 phosphoric acid**

WEL	Short-term value: 2 mg/m <sup>3</sup>
	Long-term value: 1 mg/m <sup>3</sup>

**CAS: 7697-37-2 nitric acid**

WEL	Short-term value: 2.6 mg/m <sup>3</sup> , 1 ppm
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**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.

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing

**Breathing equipment:**

In case of brief exposure or low pollution use breathing filter apparatus.

filter: E-P2 (combination filter: ABE2K1P2-EN 14387)

Short term filter device:

combination filter B-NO-P3

**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 (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.

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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.

**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**

<b>Colour:</b>	Colourless
<b>Odour:</b>	slightly pungent
<b>Odour threshold:</b>	Not determined
<b>Melting point/freezing point:</b>	Not determined
<b>Boiling point or initial boiling point and boiling range</b>	>100 °C
<b>Flash point:</b>	Not applicable
<b>Self-inflammability:</b>	Product is not selfigniting.
<b>Decomposition temperature:</b>	Not determined
<b>pH (10 g/l) at 20 °C</b>	1.5
<b>Solubility</b>	
<b>Water:</b>	Fully miscible
<b>Density and/or relative density</b>	
<b>Density at 20 °C</b>	1.1774 g/cm3

**9.2 Other information**

<b>Appearance:</b>	
<b>Form:</b>	Fluid
<b>Important information on protection of health and environment, and on safety.</b>	
<b>Ignition temperature:</b>	Not determined
<b>Change in condition</b>	
<b>Crystallisation temperature / range:</b>	<-5 °C
<b>Oxidising properties</b>	no

**Information with regard to physical hazard classes**

<b>Explosives</b>	Void
<b>Flammable gases</b>	Void
<b>Aerosols</b>	Void
<b>Oxidising gases</b>	Void
<b>Gases under pressure</b>	Void
<b>Flammable liquids</b>	Void
<b>Flammable solids</b>	Void
<b>Self-reactive substances and mixtures</b>	Void
<b>Pyrophoric liquids</b>	Void
<b>Pyrophoric solids</b>	Void
<b>Self-heating substances and mixtures</b>	Void
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
<b>Oxidising liquids</b>	Void
<b>Oxidising solids</b>	Void
<b>Organic peroxides</b>	Void
<b>Corrosive to metals</b>	May be corrosive to metals.
<b>Desensitised explosives</b>	Void

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**SECTION 10: Stability and reactivity**

**10.1 Reactivity** No further relevant information available.

**10.2 Chemical stability**

**Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

**10.3 Possibility of hazardous reactions** Strongly exothermic reaction with alkalis.

**10.4 Conditions to avoid** No further relevant information available.

**10.5 Incompatible materials:** Strong bases

**SECTION 11: Toxicological information**

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

**Acute toxicity**

Harmful if inhaled.

**LD/LC50 values that are relevant for classification:**

**CAS: 7664-38-2 phosphoric acid**

Dermal	LD50	2,740 mg/kg (Kan)
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**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:**

Inhalation of nitrous gas may cause lungedema after a symptomless latent period.

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:** <10 g O<sub>2</sub>/kg product

**General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

Product contains acids. Prior to discharging normally a neutralization is required.

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

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**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**

UN3264

**14.2 UN proper shipping name**  
**ADR**

3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.  
(PHOSPHORIC ACID, SOLUTION, NITRIC ACID)  
3264 ÄTZENDER SAURER ANORGANISCHER  
FLÜSSIGER STOFF, N.A.G. (PHOSPHORSÄURE,  
LÖSUNG, SALPETERSÄURE)  
**IMDG, IATA**  
CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.  
(PHOSPHORIC ACID, SOLUTION, NITRIC ACID)

**14.3 Transport hazard class(es)**

**ADR**



**Class**  
**Label**

8 (C1)  
8

**IMDG, IATA**



**Class**  
**Label**

8  
8

**14.4 Packing group**  
**ADR, IMDG**

II

**14.5 Environmental hazards:**

Not applicable.

**14.6 Special precautions for user**

**Kemler Number:**

80

**EMS Number:**

F-A,S-B

**Segregation groups**

Acids

**Stowage Category**

B

**Stowage Code**

SW2 Clear of living quarters.

**14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

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**Transport/Additional information:**

**ADR**

**Limited quantities (LQ)**  
**Excepted quantities (EQ)**

1L  
Code: E2  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 500 ml

**Transport category**  
**Tunnel restriction code**  
**Remarks:**

2  
E  
Dependent on the packing variant special arrangements for "limited quantities" and exemptions (addr Kap.3.4.) can be taken up.

**IMDG**

**Limited quantities (LQ)**  
**Excepted quantities (EQ)**

1L  
Code: E2  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 500 ml

**UN "Model Regulation":**

UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (PHOSPHORIC ACID, SOLUTION, NITRIC ACID), 8, II

**SECTION 15: Regulatory information**

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

**National regulations**

**Information about limitation of use:**

Employment restrictions concerning young persons must be observed.  
Employment restrictions concerning pregnant and lactating women must be observed.

**Decree to be applied in case of technical fault:**

**Water hazard class (Germany):** Water hazard class 1 (Self-assessment): slightly 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.

**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.

**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.  
H331 Toxic if inhaled.  
EUH071 Corrosive to the respiratory tract.

**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 13 in the following sections:  
1,3,9,15,16

**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

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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

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

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

**Sources** KC-825628f

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