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 Revision date / version: 01.11.2021 / 0004  
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 SCHAEFER PRECAfood® - CaCO<sub>3</sub> PCC  
 Calciumcarbonat, gefällt

**Safety data sheet**  
 according to Regulation (EC) No 1907/2006, Annex II

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

**1.1 Product identifier**

**SCHAEFER PRECAfood® - CaCO<sub>3</sub> PCC**  
**Calciumcarbonat, gefällt**

Calcium carbonate  
 Registration number (ECHA): 01-2119486795-18-XXXX  
 Index: ---  
 EINECS, ELINCS, NLP, REACH-IT List-No.: 207-439-9  
 CAS: 471-34-1

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

- Sector of use [SU]:
- SU 1 - Agriculture, forestry, fishery
  - SU 2a - Mining, (without offshore industries)
  - SU 2b - Offshore industries
  - SU 3 - Industrial uses: Uses of substances as such or in preparations at industrial sites
  - SU 4 - Manufacture of food products
  - SU 5 - Manufacture of textiles, leather, fur
  - SU 6a - Manufacture of wood and wood products
  - SU 6b - Manufacture of pulp, paper and paper products
  - SU 7 - Printing and reproduction of recorded media
  - SU 8 - Manufacture of bulk, large scale chemicals (including petroleum products)
  - SU 9 - Manufacture of fine chemicals
  - SU10 - Formulation (mixing) of preparations and/or re-packaging (excluding alloys)
  - SU11 - Manufacture of rubber products
  - SU12 - Manufacture of plastics products, including compounding and conversion
  - SU13 - Manufacture of other non-metallic mineral products, e.g. plasters, cement
  - SU14 - Manufacture of basic metals, including alloys
  - SU15 - Manufacture of fabricated metal products, except machinery and equipment
  - SU16 - Manufacture of computer, electronic and optical products, electrical equipment
  - SU17 - General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment.
  - SU18 - Manufacture of furniture
  - SU19 - Building and construction work
  - SU20 - Health services
  - SU23 - Electricity, steam, gas water supply and sewage treatment
  - SU24 - Scientific research and development
- Chemical product category [PC]:
- PC 1 - Adhesives, sealants
  - PC 2 - Adsorbents
  - PC 3 - Air care products
  - PC 4 - Anti-Freeze and de-icing products
  - PC 7 - Base metals and alloys
  - PC 9a - Coatings and paints, thinners, paint removers
  - PC 9b - Fillers, putties, plasters, modelling clay
  - PC 9c - Finger paints
  - PC11 - Explosives
  - PC12 - Fertilizers
  - PC14 - Metal surface treatment products
  - PC15 - Non-metal-surface treatment products
  - PC16 - Heat transfer fluids
  - PC17 - Hydraulic fluids
  - PC18 - Ink and toners
  - PC19 - Removed from PC list and relocated in the technical function list
  - PC20 - Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents
  - PC21 - Laboratory chemicals
  - PC23 - Leather treatment products
  - PC24 - Lubricants, greases, release products
  - PC25 - Metal working fluids
  - PC26 - Paper and board treatment products
  - PC27 - Plant protection products
  - PC28 - Perfumes, fragrances
  - PC29 - Pharmaceuticals
  - PC30 - Photo-chemicals
  - PC31 - Polishes and wax blends
  - PC32 - Polymer preparations and compounds
  - PC33 - Semiconductors
  - PC34 - Textile dyes, and impregnating products
  - PC35 - Washing and cleaning products
  - PC36 - Water softeners
  - PC37 - Water treatment chemicals
  - PC38 - Welding and soldering products, flux products
  - PC39 - Cosmetics, personal care products
  - PC40 - Extraction agents
- Process category [PROC]:
- PROC 1 - Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.
  - PROC 2 - Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions



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- PROC 3 - Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
- PROC 4 - Chemical production where opportunity for exposure arises
- PROC 5 - Mixing or blending in batch processes
- PROC 6 - Calendaring operations
- PROC 7 - Industrial spraying
- PROC 8a - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
- PROC 8b - Transfer of substance or mixture (charging and discharging) at dedicated facilities
- PROC 9 - Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
- PROC10 - Roller application or brushing
- PROC11 - Non industrial spraying
- PROC12 - Use of blowing agents in manufacture of foam
- PROC13 - Treatment of articles by dipping and pouring
- PROC14 - Tableting, compression, extrusion, pelletisation, granulation
- PROC15 - Use a laboratory reagent.
- PROC17 - Lubrication at high energy conditions in metal working operation
- PROC18 - General greasing/lubrication at high kinetic energy conditions
- PROC19 - Manual activities involving hand contact
- PROC20 - Use of functional fluids in small devices
- PROC21 - Low energy manipulation and handling of substances bound in/on materials or articles
- PROC22 - Manufacturing and processing of minerals and/or metals at substantially elevated temperature
- PROC23 - Open processing and transfer operations at substantially elevated temperature
- PROC24 - High (mechanical) energy work-up of substances bound in /on materials and/or articles
- PROC25 - Other hot work operations with metals
- PROC26 - Handling of solid inorganic substances at ambient temperature
- PROC27a - Production of metal powders (hot processes)
- PROC27b - Production of metal powders (wet processes)
- Article Categories [AC]:
- AC 1 - Vehicles
- AC 2 - Machinery, mechanical appliances, electrical/electronic articles
- AC 3 - Electrical batteries and accumulators
- AC 4 - Stone, plaster, cement, glass and ceramic articles
- AC 5 - Fabrics, textiles and apparel
- AC 6 - Leather articles
- AC 7 - Metal articles
- AC 8 - Paper articles
- AC10 - Rubber articles
- AC11 - Wood articles
- AC13 - Plastic articles
- AC31 - Scented clothes
- AC32 - Scented eraser
- AC34 - Scented Toys
- AC35 - Scented paper articles
- AC36 - Scented CD
- AC38 - Packaging material for metal parts, releasing grease/corrosion inhibitors
- Environmental Release Category [ERC]:
- ERC 1 - Manufacture of the substance
- ERC 2 - Formulation into mixture
- ERC 3 - Formulation into solid matrix
- ERC 4 - Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
- ERC 5 - Use at industrial site leading to inclusion into/onto article
- ERC 6a - Use of intermediate
- ERC 6b - Use of reactive processing aid at industrial site (no inclusion into or onto article)
- ERC 6d - Use of reactive process regulators in polymerisation processes at industrial site (inclusion or not into/onto article)
- ERC 7 - Use of functional fluid at industrial site
- ERC 8a - Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
- ERC 8b - Widespread use of reactive processing aid (no inclusion into or onto article, indoor)
- ERC 8c - Widespread use leading to inclusion into/onto article (indoor)
- ERC 8d - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
- ERC 8e - Widespread use of reactive processing aid (no inclusion into or onto article, outdoor)
- ERC 8f - Widespread use leading to inclusion into/onto article (outdoor)
- ERC 9a - Widespread use of functional fluid (indoor)
- ERC 9b - Widespread use of functional fluid (outdoor)
- ERC10a - Widespread use of articles with low release (outdoor)
- ERC10b - Widespread use of articles with high or intended release (outdoor)
- ERC11a - Widespread use of articles with low release (indoor)
- ERC11b - Widespread use of articles with high or intended release (indoor)
- ERC12a - Processing of articles at industrial sites with low release
- ERC12b - Processing of articles at industrial sites with high release

**Uses advised against:**

No information available at present.

**1.3 Details of the supplier of the safety data sheet**

SCHAEFER KALK GmbH & Co. KG  
 Louise-Seher-Strasse 6  
 65582 Diez  
 Tel.: +49-6432-503-0  
 Fax: +49-6432-503-269  
 Email: info@schaeferkalk.de

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**1.4 Emergency telephone number**  
**Emergency information services / official advisory body:**

IRL  
 National Poisons Information Centre, Beaumont Hospital, Dublin 9, Ireland, Tel.:  
 +353 (0)1 809 2166 (Public Poisons Info Line, 8am-10pm, 7 days a week)  
 +353 (0)1 809 2566 (Info for Healthcare Professionals ONLY, 24 h, 7 days a week)  
**Telephone number of the company in case of emergencies:**  
 +49 (0) 700 / 24 112 112 (SKC)  
 +1 872 5888271 (SKC)

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**  
**Classification according to Regulation (EC) 1272/2008 (CLP)**  
 Not applicable

**2.2 Label elements**  
**Labeling according to Regulation (EC) 1272/2008 (CLP)**  
 Not applicable

**2.3 Other hazards**  
 No vPvB substance  
 No PBT substance  
 No substance with endocrine disrupting properties.

**SECTION 3: Composition/information on ingredients**

**3.1 Substances**

<b>Calcium carbonate</b>	
<b>Registration number (REACH)</b>	01-2119486795-18-XXXX
<b>Index</b>	---
<b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>	207-439-9
<b>CAS</b>	471-34-1
<b>content %</b>	
<b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b>	---

**3.2 Mixtures**  
 n.a.

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.  
 The substances named in this section are given with their actual, appropriate classification!  
 For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

First-aiders should ensure they are protected!  
 Never pour anything into the mouth of an unconscious person!

**Inhalation**  
 Supply person with fresh air and consult doctor according to symptoms.

**Skin contact**  
 Wash thoroughly using copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

**Eye contact**  
 Remove contact lenses.  
 Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

**Ingestion**  
 Rinse the mouth thoroughly with water.  
 Give copious water to drink. Consult doctor if necessary.

**4.2 Most important symptoms and effects, both acute and delayed**  
 If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.  
 None known

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

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**  
 Not combustible.  
 Adapt to the nature and extent of fire.  
**Unsuitable extinguishing media**  
 None

**5.2 Special hazards arising from the substance or mixture**  
 In case of fire the following can develop:  
 CaCO<sub>3</sub> decomposes in CaO, CO<sub>2</sub> and H<sub>2</sub>O.

**5.3 Advice for firefighters**  
 For personal protective equipment see Section 8.  
 Protective respirator with independent air supply.  
 Dispose of contaminated extinction water according to official regulations.

**SECTION 6: Accidental release measures**

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**6.1 Personal precautions, protective equipment and emergency procedures**

**6.1.1 For non-emergency personnel**

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.  
 Ensure sufficient ventilation, remove sources of ignition.  
 Avoid dust formation with solid or powder products.  
 Leave the danger zone if possible, use existing emergency plans if necessary.  
 Avoid build up of dust.  
 Do not breathe dust.  
 Avoid inhalation, and contact with eyes or skin.

**6.1.2 For emergency responders**

See section 8 for suitable protective equipment and material specifications.

**6.2 Environmental precautions**

Keep the material dry if possible.  
 Cover area if possible to avoid unnecessary dust hazard.

**6.3 Methods and material for containment and cleaning up**

Keep the material dry if possible.  
 Pick up mechanically and dispose of according to Section 13.  
 Fill the absorbed material into lockable containers.  
 Flush residue using copious water.  
 Avoid contact with strong acids.

**6.4 Reference to other sections**

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

**SECTION 7: Handling and storage**

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

**7.1 Precautions for safe handling**

**7.1.1 General recommendations**

Avoid build up of dust.  
 Do not breathe dust.  
 Ensure good ventilation.  
 Avoid contact with eyes or skin.

**7.1.2 Notes on general hygiene measures at the workplace**

General hygiene measures for the handling of chemicals are applicable.  
 Wash hands before breaks and at end of work.  
 Keep away from food, drink and animal feedingstuffs.  
 Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

**7.2 Conditions for safe storage, including any incompatibilities**

Store product closed and only in original packing.  
 Not to be stored in gangways or stair wells.  
 Store in a dry place.

**7.3 Specific end use(s)**

No information available at present.

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

(GB)	Chemical Name	Calcium carbonate	Content %:
	WEL-TWA: 4 mg/m <sup>3</sup> (respirable dust), 10 mg/m <sup>3</sup> (total inhalable dust)	WEL-STEL: ---	---
Monitoring procedures:		---	
BMGV: ---		Other information: ---	

(IRL)	Chemical Name	Calcium carbonate	Content %:
	OELV-8h: 4 mg/m <sup>3</sup> (respirable dust), 10 mg/m <sup>3</sup> (total inhalable dust)	OELV-15min: ---	---
Monitoring procedures:		---	
BLV: ---		Other information: ---	

(GB)	Chemical Name	general dust limit	Content %:
	WEL-TWA: 10 mg/m <sup>3</sup> (inhal. dust), 4 mg/m <sup>3</sup> (respir. dust)	WEL-STEL: ---	---
Monitoring procedures:		---	
BMGV: ---		Other information: ---	

(IRL)	Chemical Name	general dust limit	Content %:
	OELV-8h: 10 mg/m <sup>3</sup> (total inhal. dust), 4 mg/m <sup>3</sup> (respir. dust)	OELV-15min: ---	---
Monitoring procedures:		---	
BLV: ---		Other information: ---	

Calcium carbonate						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - sewage treatment plant		PNEC	100	mg/l	
Consumer	Human - oral	Long term, systemic effects	DNEL	6,1	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	10	mg/m <sup>3</sup>	
Consumer	Human - inhalation	Long term, local effects	DNEL	1,06	mg/m <sup>3</sup>	
Consumer	Human - oral	Short term, systemic effects	DNEL	6,1	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	4,26	mg/m <sup>3</sup>	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	10	mg/m <sup>3</sup>	

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WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).  
 (8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).  
 (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.  
 \*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.  
 (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

IRL OELV-8h = Occupational Exposure Limit Value (8-hour reference period). (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction.  
 (8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). |  
 OELV-15min = Occupational Exposure Limit Value (15-minute reference period). (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction.  
 (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). |  
 BLV = Biological limit value |  
 Other information: Carc1A, Carc1B = carcinogenic substance, Cat. 1A or 1B. Muta1A, Muta1B = mutagenic substance, Cat. 1A or 1B. Repr1A, Repr1B = Substances known to be toxic for reproduction, Cat. 1A or 1B. Sk = can be absorbed through skin. Asphx = asphyxiant. Sen = Respiratory sensitizer. BOELV = Binding Occupational Exposure Limit Values. IOELV = Indicative Occupational Exposure Limit Values.  
 (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

**8.2 Exposure controls**

**8.2.1 Appropriate engineering controls**

Ensure good ventilation. This can be achieved by local suction or general air extraction.  
 If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.  
 Applies only if maximum permissible exposure values are listed here.  
 Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.  
 These are specified by e.g. EN 14042.  
 EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

**8.2.2 Individual protection measures, such as personal protective equipment**

General hygiene measures for the handling of chemicals are applicable.  
 Wash hands before breaks and at end of work.  
 Keep away from food, drink and animal feedingstuffs.  
 Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

**Eye/face protection:**

Tight fitting protective goggles with side protection (EN 166).

**Skin protection - Hand protection:**

Protective Neoprene® / polychloroprene gloves (EN ISO 374).  
 Protective latex rubber gloves (EN ISO 374).  
 Protective PVC gloves (EN ISO 374).  
 Minimum layer thickness in mm:

0,11  
 Permeation time (penetration time) in minutes:  
 > 480

Preventative skin protection advisable.  
 The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.  
 The recommended maximum wearing time is 50% of breakthrough time.

**Skin protection - Other:**

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

**Respiratory protection:**

If OES or MEL is exceeded.  
 Filter P1 (EN 143), code colour white  
 Filter P3 (EN 143), code colour white  
 Observe wearing time limitations for respiratory protection equipment.

**Thermal hazards:**

Not applicable

**Selection of materials derived from glove manufacturer's indications.**

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.  
 Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.  
 In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

**8.2.3 Environmental exposure controls**

No information available at present.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

Physical state:	Solid, powder
Colour:	White
Odour:	Odourless

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Melting point/freezing point:	>450 °C (Decomposition )
Boiling point or initial boiling point and boiling range:	n.a.
Flammability:	No (Regulation (EC) 440/2008 A.10. (FLAMMABILITY (SOLIDS)))
Lower explosion limit:	Does not apply to solids.
Upper explosion limit:	Does not apply to solids.
Flash point:	Does not apply to solids.
Auto-ignition temperature:	Does not apply to solids. (Regulation (EC) 440/2008 A.16. (RELATIVE SELF-IGNITION TEMPERATURE FOR SOLIDS))
Decomposition temperature:	>450 °C
pH:	There is no information available on this parameter.
Kinematic viscosity:	Does not apply to solids.
Solubility:	0,0166 g/l (20°C, OECD 105 (Water Solubility))
Partition coefficient n-octanol/water (log value):	n.a.
Vapour pressure:	Product is not volatile.
Density and/or relative density:	2,7-2,95 g/cm <sup>3</sup> (20°C)
Relative vapour density:	Does not apply to solids.
<b>9.2 Other information</b>	
Explosives:	Product is not explosive.
Oxidizing solids:	No

**SECTION 10: Stability and reactivity**

**10.1 Reactivity**  
 The product has not been tested.  
**10.2 Chemical stability**  
 Stable with proper storage and handling.  
**10.3 Possibility of hazardous reactions**  
 Product reacts with acids and forms CO<sub>2</sub>  
**10.4 Conditions to avoid**  
 Strong heat  
 Moisture  
**10.5 Incompatible materials**  
 Acids  
**10.6 Hazardous decomposition products**  
 Product reacts with acids and forms CO<sub>2</sub>

**SECTION 11: Toxicological information**

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**  
 Possibly more information on health effects, see Section 2.1 (classification).

Calcium carbonate						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat	OECD 420 (Acute Oral toxicity - Fixe Dose Procedure)	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>3	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	No (skin contact)
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Carcinogenicity:						No indications of such an effect.
Reproductive toxicity:	NOEL	1000	mg/kg bw/d	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test)	
Specific target organ toxicity - single exposure (STOT-SE):						No indications of such an effect.
Specific target organ toxicity - repeated exposure (STOT-RE):						No indications of such an effect.
Aspiration hazard:						No
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.
Endocrine disrupting properties:						n.d.a.
Other information:						n.d.a.

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Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	1000	mg/kg bw/d	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test)	
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEC	0,212	mg/l	Rat	OECD 413 (Subchronic Inhalation Toxicity - 90-Day Study)	

**11.2. Information on other hazards**

Calcium carbonate						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Endocrine disrupting properties:						n.d.a.
Other information:						No other relevant information available on adverse effects on health.

**SECTION 12: Ecological information**

Possibly more information on environmental effects, see Section 2.1 (classification).

Calcium carbonate							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h			Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	No observation with saturated solution of test material.
12.1. Toxicity to daphnia:	EC50	48h			Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	No observation with saturated solution of test material.
12.1. Toxicity to algae:	EC50	72h	>14	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	14	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:							Not relevant for inorganic substances.
12.3. Bioaccumulative potential:							Not to be expected
12.4. Mobility in soil:							n.a.
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
12.6. Endocrine disrupting properties:							n.d.a.
12.7. Other adverse effects:							n.d.a.
Toxicity to bacteria:	EC50	3h	>1000	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Toxicity to bacteria:	NOEC/NOEL	3h	1000	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Other organisms:	EC50	21d	>1000	mg/kg dw		OECD 208 (Terrestrial Plants, Growth Test)	Glycine max
Other organisms:	EC50	21d	>1000	mg/kg dw		OECD 208 (Terrestrial Plants, Growth Test)	Lycopersicon esculentum
Other organisms:	EC50	21d	>1000	mg/kg dw		OECD 208 (Terrestrial Plants, Growth Test)	Avena sativa
Other organisms:	NOEC/NOEL	21d	1000	mg/kg dw		OECD 208 (Terrestrial Plants, Growth Test)	Glycine max
Other organisms:	NOEC/NOEL	21d	1000	mg/kg dw		OECD 208 (Terrestrial Plants, Growth Test)	Lycopersicon esculentum
Other organisms:	NOEC/NOEL	21d	1000	mg/kg dw		OECD 208 (Terrestrial Plants, Growth Test)	Avena sativa
Other organisms:	EC50	14d	>1000	mg/kg dw	Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	
Other organisms:	NOEC/NOEL	14d	1000	mg/kg dw	Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	
Other organisms:	EC50	28d	>1000	mg/kg dw		OECD 216 (Soil Microorganisms - Nitrogen Transformation Test)	
Other organisms:	NOEC/NOEL	28d	1000	mg/kg dw		OECD 216 (Soil Microorganisms - Nitrogen Transformation Test)	
Water solubility:			0,0166	g/l		OECD 105 (Water Solubility)	20°C

GB IRL

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**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**For the substance / mixture / residual amounts**

EC disposal code no.:  
 The waste codes are recommendations based on the scheduled use of this product.  
 Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)  
 06 03 14 solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13  
 Recommendation:  
 Sewage disposal shall be discouraged.  
 Pay attention to local and national official regulations.  
 Can, if applicable, be disposed in domestic waste.  
**For contaminated packing material**  
 Pay attention to local and national official regulations.  
 Empty container completely.  
 Uncontaminated packaging can be recycled.  
 Dispose of packaging that cannot be cleaned in the same manner as the substance.

**SECTION 14: Transport information**

**General statements**

14.1. UN number or ID number:	n.a.
<b>Transport by road/by rail (ADR/RID)</b>	
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	n.a.
14.4. Packing group:	n.a.
Classification code:	n.a.
LQ:	n.a.
14.5. Environmental hazards:	Not applicable
Tunnel restriction code:	
<b>Transport by sea (IMDG-code)</b>	
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	n.a.
14.4. Packing group:	n.a.
Marine Pollutant:	n.a.
14.5. Environmental hazards:	Not applicable
<b>Transport by air (IATA)</b>	
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	n.a.
14.4. Packing group:	n.a.
14.5. Environmental hazards:	Not applicable
<b>14.6. Special precautions for user</b>	
Unless specified otherwise, general measures for safe transport must be followed.	
<b>14.7. Maritime transport in bulk according to IMO instruments</b>	
Non-dangerous material according to Transport Regulations.	

**SECTION 15: Regulatory information**

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

Observe restrictions:  
 General hygiene measures for the handling of chemicals are applicable.

**15.2 Chemical safety assessment**

No chemical safety assessment was carried out.

**SECTION 16: Other information**

Revised sections:	1-16
Registration/listing status:	
EU:	
ECOIN CAS:	471-34-1
EINECS:	207-439-9
USA:	
TSCA CAS:	471-34-1 -- GRAS (Generally Recognized As Safe-FDA)
DOT, FDA, FIFRA, OSHA, STATE	
AUSTRALIA:	
ACOIN CAS:	471-34-1
CANADA:	
DSL CAS:	471-34-1
NEW ZEALAND:	
NZIoC	
PHILIPPINES:	
PICCS	
JAPAN:	
ENCS No.:	1-122
KOREA:	
ECL Serial No.:	KE-04487
CHINA:	
IECSC	



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SWITZERLAND:  
 Swiss No.: G-7458  
 MEXICO:  
 INSQ  
 MALAYSIA:  
 EHS

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

**Key literature references and sources for data:**

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.  
 Guidelines for the preparation of safety data sheets as amended (ECHA).  
 Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).  
 Safety data sheets for the constituent substances.  
 ECHA Homepage - Information about chemicals.  
 GESTIS Substance Database (Germany).  
 German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).  
 EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.  
 National Lists of Occupational Exposure Limits for each country as amended.  
 Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

**Any abbreviations and acronyms used in this document:**

acc., acc. to according, according to  
 ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 AOX Adsorbable organic halogen compounds  
 approx. approximately  
 Art., Art. no. Article number  
 ASTM ASTM International (American Society for Testing and Materials)  
 ATE Acute Toxicity Estimate  
 BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)  
 BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)  
 BCF Bioconcentration factor  
 BSEF The International Bromine Council  
 bw body weight  
 CAS Chemical Abstracts Service  
 CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)  
 CMR carcinogenic, mutagenic, reproductive toxic  
 DMEL Derived Minimum Effect Level  
 DNEL Derived No Effect Level  
 DOC Dissolved organic carbon  
 dw dry weight  
 e.g. for example (abbreviation of Latin 'exempli gratia'), for instance  
 EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants)  
 EC European Community  
 ECHA European Chemicals Agency  
 ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect  
 EEC European Economic Community  
 EINECS European Inventory of Existing Commercial Chemical Substances  
 ELINCS European List of Notified Chemical Substances  
 EN European Norms  
 EPA United States Environmental Protection Agency (United States of America)  
 ErCx, E<sub>p</sub>Cx, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants)  
 etc. et cetera  
 EU European Union  
 EVAL Ethylene-vinyl alcohol copolymer  
 Fax. Fax number  
 gen. general  
 GHS Globally Harmonized System of Classification and Labelling of Chemicals  
 GWP Global warming potential  
 Koc Adsorption coefficient of organic carbon in the soil  
 Kow octanol-water partition coefficient  
 IARC International Agency for Research on Cancer  
 IATA International Air Transport Association  
 IBC (Code) International Bulk Chemical (Code)  
 IMDG-code International Maritime Code for Dangerous Goods  
 incl. including, inclusive  
 IUCLID International Uniform Chemical Information Database  
 IUPAC International Union for Pure Applied Chemistry  
 LC50 Lethal Concentration to 50 % of a test population  
 LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)  
 Log Koc Logarithm of adsorption coefficient of organic carbon in the soil  
 Log Kow, Log Pow Logarithm of octanol-water partition coefficient  
 LQ Limited Quantities  
 MARPOL International Convention for the Prevention of Marine Pollution from Ships  
 n.a. not applicable  
 n.av. not available  
 n.c. not checked  
 n.d.a. no data available  
 NIOSH National Institute for Occupational Safety and Health (USA)  
 NLP No-longer-Polymer



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NOEC, NOEL No Observed Effect Concentration/Level  
 OECD Organisation for Economic Co-operation and Development  
 org. organic  
 OSHA Occupational Safety and Health Administration (USA)  
 PBT persistent, bioaccumulative and toxic  
 PE Polyethylene  
 PNEC Predicted No Effect Concentration  
 ppm parts per million  
 PVC Polyvinylchloride  
 REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)  
 REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.  
 RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)  
 SVHC Substances of Very High Concern  
 Tel. Telephone  
 TOC Total organic carbon  
 UN RTDG United Nations Recommendations on the Transport of Dangerous Goods  
 VOC Volatile organic compounds  
 vPvB very persistent and very bioaccumulative  
 wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.  
 No responsibility.

These statements were made by:

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