

Safety data sheet

according to Regulation (EC) No 1907/2006 (REACH)



Trade name: Vienna chalk 300g shaker can

Metabo no.: 626399000

Version / Language: 1.0/EN

Site 1 from 16

Date: 19.09.2024

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

1.1 Product identifier

Product form:	Mixture
Trade name:	Vienna chalk 300g shaker can
Other designations:	Calcium carbonate (natural)
Unique Formula Identifier - UFI	Not relevant

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

Relevant identified uses

The substance is intended for the following non-exhaustive list of uses:

desulphurisation of industrial flue gases; additives in paper; paints and surface coatings; plastics, rubbers and elastomers; adhesives; mastics, sealants and plasters; fertilizers and soil conditioners; animal feeds; toiletries and personal care products; cleaning products; glass and ceramics; water treatment chemicals; a carrier for insecticides and herbicides; intermediate in the recovery of cooking chemicals in kraft and soda pulping; building materials.

Uses advised against

None

1.3 Details of the supplier providing the safety data sheet.

Metabowerke GmbH

Metabo Alley 1

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Phone: +49 (0) 7022 - 72 0

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Web: <https://www.metabo.com>

E-mail: product-compliance@metabo.de

1.4 Emergency number

GBK GmbH (24 h): +49 (0)6132-84463

SECTION 2: Possible dangers

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP].

The mixture is not classified according to Regulation (EC) No 1272/2008 [CLP].

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2.2 Labelling elements

Labelling in accordance with Regulation (EC) No 1272/2008 [CLP].

The substance is not labelled according to Regulation (EC) No 1272/2008 (CLP)

Additional sets, additional labelling

No other hazards identified. The substance does not meet the criteria for PBT and/or vPvB substance according to Regulation (EC) n°1907/2006, Annex XIII. Calcium carbonate is not included in the Candidate List of substances of very high concern for Authorization. Calcium carbonate is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition / information on ingredients

3.1 Fabrics

Not applicable

3.2 Mixtures

Hazardous ingredients

Substance Name	Product identifier	Concentration [%]	Classification according to Regulation (EG) Nr. 1272/2008 [CLP]	SCL, ATE (oral, dermal, inhalative), M-factor (acute, chronic)	Type
Calcium carbonate	EC Nr 207-439-9 CAS Nr. 471-34-1	100%	Not classified No M Factor assigned No SCL assigned	No further information	No further information

Additional hints

Calcium carbonate (CAD: 471-34-1) is exempted from the REACH registration provided the substance meets the conditions detailed in Annex V, paragraph 7, i. e. (i) naturally occurring and (ii) not chemically modified.

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SECTION 4: First aid measures

4.1 Description of the first aid measures

General notes

No known delayed effects. Consult a physician for all exposure except for minor instances.

In case of eye contact

Rinse under tap water for at least 1 minute, also under the eyelids. If eye discomfort persists, consult a specialist.

Inhalation

Move patient from contaminated area to fresh air. If symptoms persist, call a physician.

In case of skin contact

Remove contaminated clothing. Wash off under tap water for at least 1 minute. Get medical attention if symptoms appear.

In case of ingestion

Rinse mouth thoroughly with water. Immediately give large quantities of water to drink. If symptoms persist, call a physician.

Self-protection of the first aider

No special precautions required.

4.2 Most important symptoms and effects, both acute and delayed

Signs / symptoms of overexposure

No specific symptoms or effects have been reported.

4.3 Indications for immediate medical help or special treatment

No need for immediate medical attention: follow the advices given in section 4.1.

SECTION 5: Fire fighting measures

5.1 Extinguishing agent

Suitable extinguishing agents

The product itself does not burn. No special protective measures against fire required.

Unsuitable extinguishing agents

None

5.2 Special hazards arising from the substance or mixture

Hazards arising from the substance or mixture

Asphyxiating gases/vapors/fumes of carbon dioxide at temperature >600°C.

5.3 Advice for firefighters

No special precautions required

Special protective equipment for fire fighting

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No further information.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personnel not trained for emergencies

Protective equipment: Respiratory protection: In case of dust, dust mask type FFP 1, FFP2 or FFP3 (European Norm 143). Avoid dust formation. Do not breath dust (see section 8)

Emergency plans: No further information.

Emergency personnel

Protective equipment (appropriate material): Respiratory protection: In case of dust, dust mask type FFP 1, FFP2 or FFP3 (European Norm 143). Avoid dust formation. Do not breath dust (see section 8)

6.2 Environmental protection measures

No special environmental measures are necessary

6.3 Methods and material for retention and cleaning

Retention and waterproofing methods: Dam and absorb mechanically with sand, sawdust or other absorbent material

Purification process: Pick up and arrange disposal without creating dust.

Other information: Keep in properly labelled containers. Keep container closed. Treat recovered material as described in section "Disposal considerations". Flush with plenty of water. Keep away from acids.

6.4 Reference to other sections

For more information on exposure controls/personal protection or disposal considerations, please refer to sections 8 and 13 of this safety data sheet.

SECTION 7: Handling and storage

The information in this section contains general advice and guidance

7.1 Protective measures for safe handling

Protective measures

Do not breathe dust.

Avoid dust formation.

Avoid contact with skin, eyes and clothing.

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Use only in well-ventilated areas.

Keep away from incompatible products (see section 10)

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

Do not eat drink and smoke in work areas.

Wash hands after use.

Remove contaminated clothing and protective equipment before entering eating areas.

Do not remove contaminated clothing from the workplace.

7.2 Conditions for safe storage taking into account incompatibilities

Technical measures and storage conditions

Keep in a dry place.

Keep in covered storage tank.

Keep container closed.

Do not store near acids.

Packaging materials

No further information

Requirements for storage rooms and containers

Storage class: 13 – Non combustible solids

Substances to avoid: No further information

Further information on storage conditions

No further information.

7.3 Specific end uses

Recommendations

If you require advice on specific uses, please contact your supplier.

SECTION 8: Exposure controls / Personal protective equipment

The information in this section contains general advice and guidance. Information provided is based on typical anticipated uses of the product. Additional measures may be required for handling large quantities or other uses that may significantly increase worker exposure or release to the environment.

8.1 Parameters to be monitored

Occupational exposure limit values

Air limit values Maintain personal exposure below occupational exposure limit for dust (inhalable and respirable) as distacted in the national legislation. Please, refer to the Annex I of this SFS for the appropriate national exposure limit values.

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Biological limit values None

DNEL values

Oral	Not required		
Dermal	No hazard identified		
Inhalation	DNEL Long-term, systemic	10 mg/m ³ (worker)	10 mg/m ³ (consumer)
Inhalation	DNEL Long-term, local	4.21 mg/m ³ (worker)	1.06 mg/m ³ (consumer)

PNEC values

PNEC waters, freshwater No hazard identified. Not acutely toxic to fish, invertebrates, algae and microorganisms at the concentrations tested in the studies. Acute toxicity to fish, invertebrates, algae and microorganisms is greater than the highest concentration tested and therefore exceeds the maximum solubility of calcium carbonate in water.

PNEC waters, seawater No hazard identified. Calcium carbonate is not acutely toxic to fish, invertebrates, algae and microorganisms at the concentrations tested in the studies on freshwater species. Using weight of evidence approaches, the concentration of calcium carbonate that might cause acute toxicity to fish, invertebrates, algae and microorganisms is greater than the highest concentration tested and therefore exceeds the maximum solubility of calcium carbonate in water. Therefore, calcium carbonate showed no short-term toxicity to aquatic species and is not acutely toxic to fish, invertebrates, algae and microorganisms at the limit of its water solubility.

PNEC sediment, freshwater No hazard identified. Calcium carbonate and calcium and carbonate ions are ubiquitous in the environment and are found naturally in soil, water and sediment. Sediments naturally contain a high concentration of calcium and carbonate due to the physical and/or chemical weathering of calcium-rich rocks that takes place in the environment. Calcium will be assimilated by species residing in the sediment and is necessary to maintain a good chemical balance in soils, water and sediment. The carbonate will become part of the carbon cycle and is then cycled throughout the biosphere. Due to the natural occurrence of calcium carbonate in the environment, it is expected that calcium carbonate would not be toxic to sediment organisms.

PNEC sediment, seawater No hazard identified. Calcium carbonate and calcium and carbonate ions are ubiquitous in the environment and are found naturally in soil, water and sediment. Sediments naturally contain a high concentration of calcium and carbonate due to the physical and/or chemical weathering of calcium-rich rocks that takes place in the environment. Calcium will be assimilated by species residing in the sediment and is necessary to maintain a good chemical balance in soils, water and sediment. The carbonate will become part of the carbon cycle and is then cycled throughout the biosphere. Due to the natural occurrence of calcium carbonate in the environment, it is expected that calcium carbonate would not be toxic to sediment organisms.

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PNEC Microorganisms

in sewage treatment 100 mg/L, NOEC, AF=10

PNEC Food chain

No hazard identified. In the environment, calcium carbonate dissociates into calcium and carbonate ions, which are naturally ubiquitous in the environment; calcium will be assimilated by species present in the water, soil or sediment and is necessary to maintain a good chemical balance in the environment, and carbonate will become part of the carbon cycle. Therefore, bioaccumulation is not expected.

PNEC soil

No hazard identified. Not acutely toxic to earthworms, plants (soya, tomato and oat) and soil microorganisms at the concentrations tested in the studies. Acute toxicity to earthworms, plants and soil microorganisms is greater than the highest concentrations tested and therefore exceeds the maximum solubility of calcium carbonate in water.

PNEC Air

No hazard identified.

Additional notes: No further information

8.2 Exposure controls and monitoring

Suitable technical control devices

Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below specified exposure limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne particles below the exposure limit.

Limitation and monitoring of environmental exposure

Minimize airborne dust generation. Apply organizational measures e.g. by isolating personnel from dusty areas. Remove and wash soiled clothing.

Individual protective measures, for example personal protective equipment

General protective and hygienic measures:

The usual precautions when handling chemicals must be observed.

Keep away from food, drink and animal feed.

Wash hands before breaks and at the end of work.

Do not inhale gases, vapors, aerosols.

Breathing protection

Local ventilation to control airborne dust levels below occupational exposure limits is recommended. In case of prolonged exposure to airborne dust concentrations, wear a respiratory protective equipment that complies with the requirements of European or national legislation. The use of half or full-face masks with filters against particles of category 2 or 3 (FFP2-FFP3) is recommended. See EN 143:2000 – Respiratory protective devices. Particle filters.

Hand protection



For hands, wear protective gloves (PVC, Neoprene, Natural Rubber)

Eye/face protection



Safety spectacles or chemical resistant goggles must be worn

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Thermal hazards

The substance does not represent a thermal hazard, thus special consideration is not required.

Environmental exposure controls

Dispose of rinse water in accordance with local and national regulations.

SECTION 9: Physical and chemical properties

9.1 Information on the basic physical and chemical properties

Appearance

State of aggregation:	Solid powder
Colour:	White
Odour:	Odourless
Odour threshold:	Not available
pH value:	9-10 (20°C – suspension at 10% in water)
Melting point / range (°C):	>450°C (handbook data)
Initial boiling point and boiling range:	Not available
Flammability	Non flammable
Lower an upper explosion limit	Not available
Flash point:	Not available
Decomposition temperature	Decomposes at temperatures >450°C
Ignition temperature:	Not available
Vapour pressure at 20°C:	Not available
Vapour density:	Not available
Relative density:	2.7-2.95 g/cm ³ at 20.0 (Handbook data)
Density at 20°C:	Not available
Solubility(ies):	Not available
Solubility water:	0,0166 g/L at 20.0 (study result, OECD 105 method)
Partition coefficient n-octanol/water	Not available
Decomposition temperature:	Not available
Viscosity:	Not available
Kinematic viscosity at 40 °C	Not available
Particle characteristics	Particle size (d50): max 3,5 µm by laser diffraction (ISO 13320:2020)
Evaporation number	Not available

9.2 Other information

Important health, safety and environmental information

Ignition temperature:	No further information.
Explosive properties:	No further information
Solvent content VOC (EU)	No further information
VOC (EU)	No further information
Change of state Drip point:	Not determined
Pourpoint:	Not determined
Evaporation rate:	Not determined.

Information on physical hazard classes

Explosive substances/mixtures and articles containing explosives	Not applicable
Flammable gases	Not applicable
Aerosols	Not applicable
Oxidising gases	Not applicable
Gases under pressure	Not applicable
Flammable liquids	Not applicable
Flammable solids	Not applicable
Self-reactive substances and mixtures	Not applicable

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Pyrophoric liquids	Not applicable
Pyrophoric solids	Not applicable
Self-heating substances and mixtures	Not applicable
Substances and mixtures which, in contact with water, emit flammable gases in contact with water	Not applicable
Oxidising liquids	Not applicable
Oxidising solids	Not applicable
Organic peroxides	Not applicable
Substances and mixtures corrosive to metals	Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions

10.2 Chemical stability

Contact with acids or strong heating (>450°C) liberates carbon dioxide, sometimes violently.

10.3 Possibility of hazardous reactions

Contact with acids liberates carbon dioxide, sometimes violently

10.4 Conditions to avoid

Will produce carbon dioxide on strong heating (>450°C) or on contact with acids.

10.5 Incompatible materials

Acids.

10.6 Hazardous decomposition products

Reacts with acids to form carbon dioxide which displaces the oxygen in the air in closed spaces.

SECTION 11: Toxicological information

11.1 Information on hazard classes according to Regulation (EC) No. 1272/2008

Acute toxicity

Based on available data, the classification criteria are not met.

LD/LC50-values classification-relevant

Calcium Carbonate is not acutely toxic.

Orale	LD50	> 2000 mg/kg bw (OECD 420, rat)
Inhalation	LC50 (4h)	> 3 mg/L air (OECD 403, rat)
Dermal	LD50	> 2000 mg/kg bw (OECD 402, rat)

Based on available data, the classification criteria are not met.

Corrosive/irritant effect on the skin

Calcium carbonate is not irritating to skin (in vivo, OECD 404, rabbit).

Based on available data, the classification criteria are not met.

Severe eye damage / irritation

Calcium carbonate is not irritating to eye (in vivo, OECD 405, rabbit)

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Sensitisation of the respiratory tract / skin:

Calcium carbonate is not a skin sensitizer in accordance with the local lymph node assay (OECD 429, mouse)

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Calcium carbonate is not genotoxic (in vitro study results OECS 471, OECS 473, OECS 476)

Based on available data, the classification criteria are not met.

Carcinogenicity

Calcium carbonate is not expected to pose a risk of carcinogenicity based on evidence from genotoxicity, repeat dose studies and long-term studies.

Based on available data, the classification criteria are not met.

Reproductive toxicity

Calcium carbonate is not toxic to reproduction. NOEL (Parental) 1000 mg/kg bw/day (OECD 422, rat)

Based on available data, the classification criteria are not met.

Specific target organ toxicity in case of single exposure:

Non organ toxicity observed in acute tests.

Based on available data, the classification criteria are not met.

Specific target organ toxicity in case of repeated exposure

No organ toxicity observed in repeated dose toxicity tests.

Oral NOAEL: 1000 mg/kg bw/day (OECD 422, rat).

Inhalation NOAEC: 0.212 mg/L (OECD 413, rat).

Dermal: toxicity via dermal route is not considered as relevant.

Although skin contact during production and use of calcium carbonate is possible, inhalation is expected to be the primary route of exposure. Calcium carbonate is an inorganic ionic solid and based on its physicochemical properties, the results of acute toxicity oral and dermal studies, as well as a 28-day repeat dose oral toxicity study, calcium carbonate is not expected to cause any toxic effects following repeated dermal exposure.

Based on available data, the classification criteria for toxicity upon prolonged exposure via oral route, by dermal route or inhalation route are not met.

Aspiration hazard

No aspiration hazard envisaged.

Information on other hazards

Available data for the substance have been considered against the criteria laid down in Regulations ((EC) No 1907/2006, (EU) 2017/2100, (EU) 2018/605) and found not to apply.

SECTION 12: Environmental information

12.1 Toxicity

Aquatic toxicity:

LC50 (96h)	freshwater fish (rainbow trout Oncorhynchus mykiss)	>100% v/v saturated solution of test material – Exceeds maximum solubility of substance (Method OECD 203)
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EC50 (48h)	aquatic invertebrates (<i>Daphnia magna</i>)	>100% v/v saturated solution of test material – Exceeds maximum solubility of substance (Method OECD 202)
EC 50/EC20/EC10/NOEC (72h)	freshwater algae (<i>Desmodesmus subspicatus</i>)	> 14 mg/L (Method OECD 201)
EC50 (3h)	activated sewage sludge	>1000 mg/L (Method OECD 209) NOEC (3h) activated sewage sludge: 1000 mg/L (Method OECD 209)
EC50 (14 days)	for soil macroorganisms (<i>earthworms Eisenia fetida</i>)	> 1000 mg/kg (Method OECD 207)
NOEC (14 days)	for soil macroorganisms: (<i>earthworms Eisenia fetida</i>)	≥1000 mg/L (Method OECD 207)
EC50 (28 days)	For soil microorganisms	≥ 1000 mg/kg (Method OECD 216)
NOEC (28 days)	For soil microorganisms	1000 mg/kg (Method OECD 216) Calcium carbonate is not toxic to soil dwelling organisms
EC 50 (21 days)	Glycine max (soybean), <i>Lycopersicon esculentum</i> (tomato), <i>avena sativa</i> (oats)	≥ 1000 mg/kg (Method OECD 208)
NOEC (21 days)	Glycine max (soybean), <i>Lycopersicon esculentum</i> (tomato), <i>avena sativa</i> (oats)	1000 mg/kg (Method OECD 208) Calcium carbonate is not acutely toxic to plants

12.2 Persistence and degradability

Abiotic degradation: The substance is inorganic and therefore will not undergo abiotic degradation

Biodegradation: The substance is inorganic and therefore will not undergo biodegradation

12.3 Bioaccumulative potential

Bioaccumulation is not expected.

12.4 Mobility in soil

No further information available.

12.5 Result of the PBT and vPvB assessment

This substance does not meet the criteria for classification as PBT or vPvB

12.6 Endocrine disrupting properties

Available data for the substance have been considered against the criteria laid down in Regulations ((EC) No 1907/2006, (EU) 2017/2100, (EU) 2018/605) and found not to apply

12.7 Other adverse effects

According to the criteria of the European classification and labelling system, the substance does not require classification as hazardous for the environment.

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SECTION 13: Handling and storage

The information in this section provides general advice and guidance. The list of identified uses in section 1 should be consulted for any application-specific information in the exposure scenario(s).

13.1 Waste treatment process

Recommendation:

Waste codes may be specified by the user based on the application for which the substance is used. Individual information

Wastes should be handled in accordance with local and national regulations. Wastes can be landfilled when in compliance with local regulations. Dispose of waste in accordance with the European Directives.

Waste code number:

No further information

European Waste Catalogue:

No further information

Uncleaned packaging:

Empty containers. Dispose of as unused product. The empty and clean containers are to be reused in conformity with regulations.

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SECTION 14: Transport information

14.1 UN-Number oder ID-Number

According to ADR / IMDG / IATA not relevant

14.2 Proper UN-shipping name

According to ADR / IMDG / IATA not relevant

14.3 Transport hazard classes

According to ADR / IMDG / IATA not classified

14.4 Packaging group

According to ADR / IMDG / IATA not applicable

14.5 Environmental hazards

Indicator of environmentally hazardous substances

ADR/RID/IMDG-Code No

ICAO-TI/IATA-DGR No

14.6 Special precautions for the user

Avoid any release of dust during transportation by using air-tight tanks for powders and covered trucks for pebbles.

14.7 Carriage in bulk by sea in accordance with IMO instruments

IMSBC Code: Not applicable for the delivery form of the product.

SECTION 15: Legislation

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

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms: Not applicable

Signal word: Not applicable

Hazard statements: Not applicable

EC Regulation (EC) No 1907/2006 (REACH)

Annex XIV: No further information.

Annex XVII: No further information.

Substances of very high concern (SVHC) No further information.

Directive 2011/65/EU (RoHS)

Annex II: No further information.

Directive 2012/18/EU (SevecO)

Annex I: No further information

Directive 2019/1148/EU (Marketing and use of explosives precursors)

Annex I: Restricted explosive precursors: No further information.

Annex II Reportable explosive precursors: No further information.

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Directive 273/2004/EG (Drug precursors)

No further information.

National regulations:

Water hazard class:

WGK 1 (Self-assessment): Not water endangering

Other EU provisions

Industrial emissions (integrated pollution prevention and control) - Air

No further information.

Industrial emissions (integrated pollution prevention and control) - Water substances

No further information.

Ozone-depletable substances (1005/2009/EU)

No further information.

Storage class (TRGS 510)

No further information.

Water hazard class

Class : not water endangering - Classification according to AwSV

Prior Informed Consent (PIC) (649/2012/EU)

No further information.

15.2 Chemical safety assessment:

Calcium carbonate (natural) is exempted from REACH registration and thus no formal chemical safety assessment has been carried out for this substance by the supplier.

SECTION 16: Other notes

The information is based on the present state of our knowledge but does not represent any assurance of product properties and does not establish a contractual legal relationship. The classification of the mixture was made by calculation according to the rules of Annex I in Directive 1272/2008/EU.

16.1 Notes on changes

None.

16.2 Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AF	Assessment factor
BCF	Bioconcentration factor
CAS no.	Chemical Abstract Service - Number
CLP	Regulation on classification, labelling and packaging [Regulation (EC) No 1272/2008].
DMEL	Derived exposure level with minimal impairment

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DNEL	Derived exposure level without impairment
EC no.	European Community Number
EC50	Median effect concentration
EN	European Standard
EUH rate	CLP-specific hazard statement
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
IARC	International Agency for Cancer Research
IATA	Association for International Air Transport
IMDG	Dangerous goods regulations for international maritime transport
LC50	Median lethal concentration
LD50	Median lethal dose
PBT	Persistent, bioaccumulative and toxic substance
PNEC	Estimated non-effect concentration
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals
MSDS	Safety data sheet
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
OEL	Operator exposure level
PBT	Persistent bioaccumulative toxic
PEC	Predicted effect level
PNEC	Predicted no effect level
TRGS	Technical rules for hazardous substances
vPvB	Very persistent and very bioaccumulative

16.3 Important literature references and data sources

The data described herein is obtained from laboratory studies and publicly available information.

16.4 Classification of mixtures and assessment method used according to Regulation (EC) No 1207/2008 [CLP].

No information.

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16.5 Wording of H and EUH phrases (number and full text)

No information.

16.6 Full text of the classifications [CLP/GHS].

No information.

Note for the reader

To the best of our knowledge, the information contained herein is correct. However, neither the above-named manufacturer nor its affiliates assume any liability as to the accuracy or completeness of the information provided. A final determination of the suitability of individual materials is the sole responsibility of the user. All materials may involve unknown risks and should be used with caution. While certain risks are described herein, we cannot guarantee that these are the only possible risks.