

$$\text{CaCO}_3$$

Safety Data Sheet

CALCIUM CARBONATE (STEARIC ACID COATED)

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Molecular Weight 100.09

Concentration

4 FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled	After inhalation: fresh air
In case of skin contact	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.
In case of eye contact	After eye contact: rinse out with plenty of water. Remove contact lenses
If swallowed	After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5 FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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5.2 Special hazards arising from the substance or mixture

Calcium oxide Not combustible. Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

5.4 Further information

none

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

6.2 Environmental precautions

No special precautionary measures necessary.

6.3 Methods and materials for containment and cleaning up

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Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly.
Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

For disposal see section 13

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

For precautions see section 2.2.

7.2 Information about protection against explosions and fires

No data available

7.3 Conditions for safe storage including any incompatibilities

Tightly closed. Dry. Keep in a dry place. hygroscopic

7.4 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please SIGALD- 239216 Page 4 of 11 The life science business of Merck operates as MilliporeSigma in the US and Canada contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatrill® L

Respiratory protection

required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type P1 The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Control of environmental exposure

No special precautionary measures necessary

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9 PHYSICAL AND CHEMICAL PROPERTIES

a) Appearance	White powder
b) Odour	No data available
c) Odour Threshold	No data available
d) pH (% solution in water)	8.0
pH	No data available
e) Melting point/freezing point	800 °C - Decomposes on heating.
f) Initial boiling point and boiling range	800 °C
g) Flash point	Not applicable
h) Evaporation rate	No data available
i) Flammability (solid or gas)	The product is not flammable. - Test N.1: Test method for readily combustible solids
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	No data available
l) Vapour density	2.93 g/cm ³ at 25 °C - lit.
m) Relative density	No data available
n) Water solubility	0.017 g/l at 20 °C - OECD Test Guideline 105-slig
o) Partition coefficient: n-octanol/water	Not applicable for inorganic substances
p) Autoignition temperature	not auto-flammable
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

9.2 Other safety information

Bulk Density	No data available
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10 STABILITY AND REACTIVITY

10.1 Reactivity	No data available
10.2 Chemical stability	The product is chemically stable under standard ambient conditions (room temperature) .
10.3 Possibility of hazardous reactions	Generates dangerous gases or fumes in contact with: acids, carbon dioxide, ammonium

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	compounds, acidic, salts. Exothermic reaction with: Fluorine, Aluminum, magnesium.
10.4 Conditions to avoid	Exposure to moisture may affect product quality. no information available
10.5 Incompatible materials	No data available
10.6 Hazardous decomposition products	In the event of fire: see section 5

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity	LD50 Oral - Rat - female - > 2.000 mg/kg
Acute Inhalation toxicity	LC50 Inhalation - Rat - male and female - 4 h - > 3 mg/l - aerosol
Acute dermal toxicity	LD50 Dermal - Rat - male and female - > 2.000 mg/kg
Skin corrosion/irritation	Skin - reconstructed human epidermis (RhE) Result: No skin irritation - 15 min
Serious eye damage/eye irritation	Eyes - Bovine cornea Result: No eye irritation - 4 h
Respiratory or skin sensitization	Local lymph node assay (LLNA) - Mouse Result: negative
Germ cell mutagenicity	Test Type: Ames test Test system: Escherichia coli/Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Test Type: Mutagenicity (mammal cell test): chromosome aberration. Test system: Human lymphocytes Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative Test Type: In vitro mammalian cell gene mutation test Test system: mouse lymphoma cells Metabolic activation:
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
RTECS	FF9335000

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Signs And Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12 ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	semi-static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 100 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (OECD Test Guideline 202)
Toxicity to Algae/Aquatic plants	static test ErC50 - Desmodesmus subspicatus (green algae) - 14 mg/l - 72 h (OECD Test Guideline 201)
Toxicity to microorganisms	static test EC50 - activated sludge - > 1.000 mg/l - 3 h (OECD Test Guideline 209)

12.2 Persistence and degradability

Biodegradation

aerobic - Exposure time 28 d Result: 90 % - Readily biodegradable. (OECD Test Guideline 301B)

12.3 Bio accumulative potential	Bioaccumulation is unlikely.
12.4 Mobility in soil	No data available
12.5 Results of PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher
12.6 Other adverse effects	No ecological problems are to be expected when the product is handled and used with due care and attention.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

processes regarding the return of chemicals and containers, or contact us there if you have further questions

14 TRANSPORT INFORMATION

14.1 UN number

ADR/RID

IMDG

IATA

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14.2 UN proper shipping name

ADR/RID

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID

-

IMDG

-

IATA

-

14.4 Packaging group

ADR/RID

-

IMDG

-

IATA

-

14.5 Environmental hazards

ADR/RID

no

IMDG Marine pollutant

no

IATA

no

14.6 Special precautions for user

No data available

15 REGULATORY INFORMATION

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

16 OTHER INFORMATION

Month of Creation

March 2023

Month of Revision

March 2027