16.09.2025

Safety information sheet

Version: 1.0 EN

Calcium carbonate, E 170

Article number: D10348

This document has been prepared as a communication tool to inform downstream users about both the status of the substance under REACH and CLP, some of its essential properties and the guidance on safe use. An extended safety data sheet (SDS) is not required for this substance under Article 31 of REACH Regulation (EC) No 1272/2008, including the amending Regulation (EU) 2020/878. As a result, the format and content of this document does not comply with the framework for safety data sheets set out in Commission Regulation (EU) No 453/2010 amending Regulation (EC) No 1907/2006.

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1 Identification of the substance/mixture and the company

1.1 Product identifier

Name	Calcium carbonate, E 170
CAS number	471-34-1
EC number	207-439-9
REACH registration	-

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

Description/use	The product is intended for pharmaceutical, food, cosmetic and industrial applications. For further information on specific applications, please contact us on the telephone number given - we will be happy to put you in touch with the relevant specialist department.

1.3 Details of the supplier providing the safety information sheet

Company	DistrEbution GmbH
Adress	Brookdeich 40 21029 Hamburg Germany
Telephone	+49 40 609 2387 60
E-Mail	info@distrebution.com

1.4 Emergency number

+49 40 609 2387 60 (Business hours: Mon - Thu: 8 a.m.- 5 p.m. / Fri: 8 a.m. – 4 p.m.)

2 Potential hazards

2.1 Classification oft he substance or mixture

Not classified according to Chemicals Regulation (EC) Nr.1272/2008.

2.2 Label elements

Not subject to classification according to Regulation (EC) No 1272/2008.

2.3 Other hazards

Results of PBT and vPvB assessment

Based on the results of its assessment, this substance is neither a PBT nor a vPvB substance.

Endocrine-disrupting properties

Not listed

3 Composition/information on ingredients

Chemical characterization:	Calcium carbonate, E 170
CAS number	471-34-1
EC number	207-439-9
REACH registration	-
Hazardous ingredients	-
Nanoparticles	No nanoparticles according to Regulation (EU) 2018/1881

4 First-aid measures

4.1 Description of first-aid measures

If symptoms occur or in cases of doubt, seek medical advice.

After eye contact

Rinse cautiously with water for several minutes.

Remove contact lenses, if possible, and continue rinsing.

If irritation persists, seek medical advice or medical attention.

After skin contact

Remove contaminated clothing immediately. Clean the affected skin thoroughly with plenty of water.

Inhalation or ingestion

Ensure adequate fresh air supply. Rinse mouth thoroughly immediately and drink plenty of water. If you experience any discomfort or are unsure, seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

5 Firefighting measures

5.1 Eytinguishing agents

Suitable extinguishing agents

Non-flammable, adapt extinguishing measures to the surroundings

Unsuitable extinguishing agents

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5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products: Section 10.

5.3 Advice fo firefighters

Do not inhale explosion and fire gases.

Adapt extinguishing measures to the surroundings.

Collect contaminated extinguishing water separately.

Fight fire with standard precautions from a safe distance.

Special protective equipment for firefighting

Use suitable breathing apparatus.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personnel not trained for emergencies

Ventilate the area thoroughly.

Avoid dust formation.

Prevent inhalation of dust.

Avoid contact with eyes.

Use appropriate personal protective equipment (as described in Section 8 of the Safety Data Sheet) to prevent contamination of skin, eyes and clothing.

Emergency responders

Wear respiratory protection when exposed to vapours, dusts, aerosols or gases..

6.2 Environmental precautions

Suppress dust with water mist. Prevent entry into drains, surface water and groundwater. Collect contaminated washing water and dispose of it properly.

6.3 Methods and material for containment and cleaning up

Information on containing spilled materials

Collect mechanically.

Information on cleaning up after spillage

Collect mechanically.

Remove spilled quantities.

Suitable containment methods

Use neutralisation methods.

Further information on spillage and release

Dispose of in suitable containers.

Ventilate the area adequately.

Do not mix with acids.

Contact with acids causes strong gas development and a risk of splashing.

6.4 Reference to other sections

See section 7 for information on safe handling.

See section 8 for information on personal protective equipment.

See section 13 for information on disposal.

7 Handling and storage

7.1 Precautions for safe handling

Ensure adequate ventilation. Avoid dust formation as far as possible. Prevent inhalation of dust. Avoid contact with eyes.

Measures to prevent fires and the formation of aerosols and dust

Use local and general ventilation. Use only in well-ventilated areas.

Avoid contact with eyes. Avoid contact with skin.

Specific information/details

Dust deposits may accumulate on surfaces in operating rooms.

Handling of incompatible substances and mixtures

Do not mix with acids.

Measures to protect the environment

Avoid release into the environment.

General workplace hygiene advice

Do not eat, drink or smoke in work areas. Wash hands thoroughly after use. Preventive skin protection (e.g. protective creams) is recommended. Remove contaminated clothing and protective equipment before entering recreation areas.

7.2 Conditions for safe storage, including any incompatibilites

Incompatible substances or mixtures

Incompatible materials: see Section 10.

Store separately from acids.

Protection from external influences

Protect from moisture.

Further information

No additional information available.

Ventilation requirements

Ensure adequate ventilation.

Suitable packaging

Store only in the original container.

7.3 Specific end uses

No data available.

8 Exposure controls/personal protective equipment

8.1 Parameters to be monitored

Limit values for occupational exposure (occupational exposure limits)

- General dust limit value, respirable fraction (AGW, TRGS 900): 1.25 mg/m³ (SMW), 2.5 mg/m³ (KZW).
- General dust limit value, inhalable fraction (AGW, TRGS 900): 10 mg/m³ (SMW), 20 mg/m³ (KZW).
- General dust limit value, alveolar fraction (MAK, DFG): 0.3 mg/m³ (SMW), 2.4 mg/m³ (KZW).
- General dust limit value, inhalable fraction (MAK, DFG): 4 mg/m³ (SMW).

Notes:

- i: inhalable fraction
- r: alveolar fraction
- KZW: short-term value (15 minutes)
- SMW: shift average (8 hours)
- Y: If the limit values are observed, no risk of damage to the foetus is to be expected.

Values relevant to human health

- DNEL: 6.36 mg/m³, inhalation, workers (industry), chronic – local effects.

Values relevant to the environment

- PNEC: 100 mg/l (sewage treatment plant, STP).

8.2 Limitation and monitoring of exposure

8.2.1 Appropriate engineering controls

Use local and general ventilation.

8.2.2 Personal protective equipment

Respiratory protection

In case of insufficient ventilation, wear respiratory protection with particle filter P1 (EN 143).

Hand protection

Use suitable chemical protection gloves (e.g. NBR ≥ 0.11 mm; breakthrough time > 480 minutes, permeation level 6).

Check for leaks before use. Consult the manufacturer to ensure that the gloves are suitable for the specific application.

Eye/face protection

Wear safety goggles or face protection (EN 166).

Hygiene measures

Wash hands thoroughly after use. The use of protective cream is recommended.

8.3 Environmental exposure controls

Use suitable containers to prevent contamination.

Prevent entry into drains, surface water and groundwater.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	Powder
Colour	White
Odour	Odourless
pH value	8.5 – 9.5 (in water)
Melting point/freezing point	> 450°C
Boiling range	No data available
Flammability	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Flash point	No data available
Ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Water solubility	0.017 g/l at 20°C
Partition coefficient n-octanol/water (log value)	No data available
Vapour pressure	No data available
Density	2.6 – 2.9 g/cm3
Relative vapour density	No data available
Particle properties	No data available

9.2 Other information

Information on physical hazard classes

Hazard classes according to GHS (physical hazards):

Not relevant

Other safety-relevant properties

No data available

10 Stability and reactivity

10.1 Reactivty

Not reactive under normal environmental conditions.

10.2 Chemical stability

The material is stable under normal temperature and pressure conditions when stored and handled properly.

10.3 Possibility of hazardous reactions

Reacts with acids to form gases; risk of acid splashing.

10.4 Conditions to avoid

Protect from heat.

10.5 Incompatible materials

Acids.

10.6 Hazardous decomposition products

No hazardous decomposition products are known under normal storage and use conditions.

11 Toxicological information

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

General classification

Based on animal studies, additional toxicity tests and expert assessments, this substance does not meet the criteria for classification according to Regulation (EC) No 1272/2008..

Acute oral toxicity	LD0 (rat, oral): >2,000 mg/kg
Acute dermal toxicity	LD0 (rat, dermal): >2,000 mg/kg
Acute inhalation toxicity	No data available
Skin corrosion/irritation	No skin corrosive or irritant effects detected.
Serious eye damage/irritation	No eye-damaging or eye-irritating effects detectable.
Respiratory/skin sensitisation	Skin: Not skin sensitising.
Germ cell mutagenicity	Respiratory tract: Classification not possible due to insufficient data.
Carcinogenicity	No mutagenic effects detectable.

Reproductive toxicity	No data available.
Specific target organ toxicity after single exposure	No reproductive toxicity effects detectable.
Specific target organ toxicity after repeated exposure	No data available.
Chronic toxicity	No data available.
Aspiration hazard	Oral (rat): NOAEL=1,000 mg/kg

11.2 Information on other hazards

Endocrine-disrupting properties

No data available

12 Environmental information

12.1 Toxicity

Based on the available data, the values do not meet the criteria for classification.

Table 1: Acute aquatic toxicity

Endpoint	Exposure duration	Value	Species	Method	Source
LD50	96 h	> 100 mg/l	Rainbow trout	OECD Guideline 203	ECHA
LD50	48 h	> 100 mg/l	Daphnia magna	OECD Guideline 202	ECHA
EC50	72 h	> 14 mg/l	Algae	OECD Guideline 201	ECHA

Table 2: Chronic aquatic toxicity

Endpoint	Exposure duration	Value	Species	Methode	Quelle
NOEC	72 h	14 mg/l	Algae	OECD Guideline 202	ECHA
NOEC	48 h	100 mg/l	Daphnia magna	-	ECHA
Growth (EbCx) 10%	72 h	> 14 mg/l	Algae	OECD Guideline 201	ECHA
Growth (EbCx) 20%	72 h	> 14 mg/l	Algae	OECD Guideline 201	ECHA

12.2 Persistence and degradability

Biodegradability: No testing required as it is an inorganic substance.

Persistence: No testing required as it is an inorganic substance.;

97 % after 5 days, 100 % after 15 days.

12.3 Bioaccumulatiove potential

No data available.

n-Octanol/water (log KOW): Not relevant (inorganic).

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No information available.

Note: Water hazard class (WGK): nwg.

13 Disposal instructions

13.1 Waste treatment methods

Dispose of contents/container in accordance with local, regional, national or international regulations.

For waste water disposal: Do not discharge into drains.

Waste treatment of packaging: Completely emptied packaging can be recycled. Treat contaminated packaging as the substance.

Note: National or regional regulations must be observed.

14 Transport information

14.1 Transport ADR/RID/ADN

No data available

14.2 Transport IMDG

No data available.

14.3 Transport ICAO-TI / IATA

No data available

14.4 Packing group

No data available

14.5 Environmental hazards

No data available

14.6 Special precautions for user

No data available

14.7 Transport in bulk by sea according to IMO regulations

No data available

15 Legislation

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

15.1.1 EU regulations

- Restrictions according to REACH, Annex XVII: Not listed.
- Substances subject to authorisation (REACH, Annex XIV) / SVHC list: Not listed.
- Seveso Directive: Not assigned.
- RoHS Directive: Not listed.
- Regulation on precursors for explosives: Not listed.
- Drug precursors: Not listed.
- Ozone-depleting substances (ODS): Not listed.
- PIC Regulation (import/export of hazardous chemicals): Not listed.
- POP Regulation (persistent organic pollutants): Not listed.

National regulations (Germany)

- Ordinance on Installations for Handling Substances Hazardous to Water (AwSV): WGK nwg, identification number 317.
- TA Luft: Total dust – certain limit values apply in the event of mass flow exceedances (see TRGS 900).
- Storage according to TRGS 510: LGK 13 (non-combustible solids).
- Employment restrictions: Observe § 11 MuSchG (maternity protection).

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this substance.

16 Other information

16.1 Abbreviations and acronyms

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG - International Maritime Dangerous Goods Code

IATA - International Air Transport Association

ICAO-TI - International Civil Aviation Organization Technical Instructions

CLP - Classification, Classification, Labeling and Packaging of Substances and Mixtures

GHS - Globally Harmonized System of Classification and Labeling of Chemicals

EINECS - European Inventory of Existing Commercial Chemical Substances

CAS - Chemical Abstracts Service (registration number)

REACH - Registration, Evaluation, Authorization and Restriction of Chemicals, Registration, Evaluation, Authorization and Restriction of Chemicals

PBT - Persistent, Bioaccumulative and Toxic

vPvB - Very Persistent and Very Bioaccumulative

PNEC - Predicted No Effect ConcentrationPBT - Persistent, Bioaccumulative and Toxic

vPvB - Very Persistent and Very Bioaccumulative

16.2 SVHC

The substances on the ECHA list (http://echa.europa.eu/en/candidate-list-table) are neither expected to be present in our products nor are they intentionally used in the production process. Our products do not come into contact with these substances during production. However, it is not possible to completely rule out traces of these substances: due to natural impurities or raw material-related properties, an unintentional content of less than 0.1% cannot be completely ruled out.

16.3 Note for users

The information in this data sheet is based on our current knowledge at the time of the last revision. The user is responsible for checking the suitability and completeness of the information in relation to the specific use of the product.

This document does not constitute a guarantee for specific properties of the product. As we have no direct influence on the use of the product, the user is obliged to comply with all applicable laws, regulations and safety and hygiene provisions on his own responsibility. We accept no liability for improper use. Personnel entrusted with the handling of chemicals must be appropriately trained.