

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended 2015/830.

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

1.1 Product identifier

Product name: Calcium Carbonate
Product No. 4071, 4052, 6210, 1301, 1300, 1294, 1288, 4918, 26305, 0061

Additional identification

Chemical name: CALCIUM CARBONATE
Chemical formula: CH₂O₃.Ca
INDEX No. -
CAS-No. 471-34-1
EC No. 207-439-9
REACH Registration No.

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

Identified uses: For Laboratory, Research or Manufacturing Use.
Uses advised against: Not determined.

1.3 Details of the supplier of the safety data sheet

Avantor Performance Materials Poland S.A.
Sowinskiego 11str., 44-101 Gliwice,
Poland

Telephone: 48 32 239-20-00
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Contact person: Environmental Health & Safety
E-mail: export@avantormaterials.com

E-mail address of person responsible for this SDS: SDS@avantormaterials.com

1.4 Emergency telephone number: CHEMTREC: (44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has not been classified as hazardous according to the legislation in force.

Classification according to Regulation (EC) No 1272/2008 as amended.

Not classified

2.2 Label Elements not applicable

2.3 Other hazards No data available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
CALCIUM CARBONATE	50 - <100%	471-34-1	207-439-9	No data available.	No data available.	#

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

This substance has workplace exposure limit(s).

SECTION 4: First Aid Measures

General: Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.

4.1 Description of first aid measures

Inhalation: Move to fresh air. Get medical attention if symptoms persist.

Skin Contact: Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing. Wash contaminated clothing before re-use.

Eye contact: Flush thoroughly with water. If irritation occurs, get medical assistance.

Ingestion: Rinse mouth thoroughly. Call a POISON CENTRE/doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed: May cause irritation to skin, eyes, and respiratory tract.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards: No data available.

Treatment: Treat symptomatically. Symptoms may be delayed.

SECTION 5: Firefighting Measures

General Fire Hazards: The product is non-combustible.

5.1 Extinguishing media

Suitable extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media: None known.

5.2 Special hazards arising from the substance or mixture: During fire, gases hazardous to health may be formed.

5.3 Advice for firefighters

Special fire fighting procedures: Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well after the fire is out.

Special protective equipment for firefighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

SECTION 6: Accidental Release Measures

- 6.1 Personal precautions, protective equipment and emergency procedures:** Keep unauthorised personnel away. Use personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment.
- 6.2 Environmental Precautions:** Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or on to the ground.
- 6.3 Methods and material for containment and cleaning up:** Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination.
- 6.4 Reference to other sections:** No data available.

SECTION 7: Handling and Storage:

- 7.1 Precautions for safe handling:** Use personal protective equipment as required. Avoid contact with eyes, skin, and clothing. Avoid inhalation of dust. Wash thoroughly after handling.
- 7.2 Conditions for safe storage, including any incompatibilities:** Keep containers tightly closed. Store in cool, dry place. Store in a well-ventilated place.
- 7.3 Specific end use(s):** No data available.

SECTION 8: Exposure Controls/Personal Protection

**8.1 Control Parameters
Occupational Exposure Limits**

Chemical name	Type	Exposure Limit Values	Source
CALCIUM CARBONATE - Respirable.	TWA	4 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (2007)
CALCIUM CARBONATE - Inhalable	TWA	10 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (2007)
CALCIUM CARBONATE - Inhalable dust.	TWA	10 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (2007)
CALCIUM CARBONATE - Respirable dust.	TWA	4 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (2007)

8.2 Exposure controls

Appropriate Engineering Controls: No data available.

Individual protection measures, such as personal protective equipment

General information: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Eye/face protection: Use tight fitting goggles if dust is generated.

Skin protection	
Hand Protection:	Material: Wear protective gloves.
Other:	Wear suitable protective clothing.
Respiratory Protection:	In case of inadequate ventilation use suitable respirator.
Hygiene measures:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower.
Environmental Controls:	No data available.

SECTION 9: Physical And Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state:	solid
Form:	Crystals or powder
Colour:	White
Odour:	Odourless
Odour Threshold:	No data available.
pH:	8 - 9
Melting Point:	825 °C
Boiling Point:	No data available.
Flash Point:	not applicable
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Flammability limit - upper (%)	No data available.
Flammability limit - lower (%)	No data available.
Vapour pressure:	No data available.
Vapour density (air=1):	No data available.
Density:	2,7 g/ml (20 °C)
Relative density:	2,7 (20 °C)
Solubility(ies)	
Solubility in Water:	Practically insoluble 0,01 g/l
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Autoignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Viscosity:	No data available.
Explosive properties:	No data available.
Oxidising Properties:	No data available.

9.2 Other information

Molecular weight:	100,09 g/mol (CH ₂ O ₃ .Ca)
Bulk density:	640,74 - 1.601,85 kg/m ³

SECTION 10: Stability and Reactivity

10.1 Reactivity:	No data available.
10.2 Chemical Stability:	Material is stable under normal conditions.
10.3 Possibility of Hazardous Reactions:	Hazardous polymerization does not occur.
10.4 Conditions to Avoid:	Contact with incompatible materials. Heat.
10.5 Incompatible Materials:	Fluorine.
10.6 Hazardous Decomposition Products:	Carbon dioxide

SECTION 11: Toxicological Information

Information on likely routes of exposure

Inhalation:	May cause irritation to the respiratory system.
Skin Contact:	May cause irritation.
Eye contact:	May cause temporary eye irritation.
Ingestion:	May cause irritation of the gastrointestinal tract.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product:	LD 50 (Rat): 6.450 mg/kg LD 50 (Mouse): 6.450 mg/kg
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Dermal

Product:	No data available.
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Inhalation

Product:	No data available.
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Repeated dose toxicity

Product:	No data available.
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Skin Corrosion/Irritation:

Product:	May cause skin irritation.
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Serious Eye Damage/Eye Irritation:

Product:	May irritate eyes.
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Respiratory or Skin Sensitisation:

Product:	Not a skin sensitiser.
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Germ Cell Mutagenicity

In vitro

Product:	No mutagenic components identified
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In vivo

Product: No mutagenic components identified

Carcinogenicity

Product: This substance has no evidence of carcinogenic properties.

Reproductive toxicity

Product: No components toxic to reproduction

Specific Target Organ Toxicity - Single Exposure

Product: None known.

Specific Target Organ Toxicity - Repeated Exposure

Product: None known.

Aspiration Hazard

Product: Not classified

Other Adverse Effects:

None known.

SECTION 12: Ecological Information

12.1 Toxicity

Acute toxicity

Fish

Product: No data available.

Specified substance(s)

CALCIUM CARBONATE LC 50 (Western mosquitofish (*Gambusia affinis*), 24 h): > 56.000 mg/l (Static) Mortality

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

CALCIUM CARBONATE No data available.

Chronic toxicity

Fish

Product: No data available.

Specified substance(s)

CALCIUM CARBONATE No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

CALCIUM CARBONATE No data available.

Toxicity to aquatic plants

Product: No data available.

Specified substance(s)

CALCIUM CARBONATE No data available.

12.2 Persistence and Degradability

Biodegradation
Product: There is no data on the degradability of this product.

Specified substance(s)
CALCIUM CARBONATE No data available.

BOD/COD Ratio
Product No data available.

Specified substance(s)
CALCIUM CARBONATE No data available.

12.3 Bioaccumulative Potential

Product: No data available on bioaccumulation.

Specified substance(s)
CALCIUM CARBONATE No data available.

12.4 Mobility in Soil: No data available.

Known or predicted distribution to environmental compartments
CALCIUM CARBONATE No data available.

12.5 Results of PBT and vPvB assessment: Not available.

CALCIUM CARBONATE No data available.

12.6 Other Adverse Effects: The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.7 Additional Information: No data available.

SECTION 13: Disposal Considerations

13.1 Waste treatment methods

General information: No data available.

Disposal methods: Discharge, treatment, or disposal may be subject to national, state, or local laws.

SECTION 14: Transport Information

ADR
Not regulated.

RID
Not regulated.

IMDG
Not regulated.

IATA
Not regulated.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: not applicable

SECTION 15: Regulatory information

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

EU Regulations

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

Regulation (EC) No. 689/2008 Import and export of dangerous chemicals: none

Regulation (EC) No. 1907/2006 REACH Annex XIV Substance subject to authorisation, as amended:
none

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:
none

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.: none

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.: none

Directive 96/82/EC (Seveso III): on the control of major accident hazards involving dangerous substances: none

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants:
none

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:
none

15.2 Chemical safety assessment: No Chemical Safety Assessment has been carried out.

SECTION 16: Other Information

Revision Information: Not relevant.

References

PBT PBT: persistent, bioaccumulative and toxic substance.
vPvB vPvB: very persistent and very bioaccumulative substance.

Key literature references and sources for data: No data available.

Wording of the H-statements in sections 2 and 3: none

Training information: No data available.

Issue Date: 09.02.2018

SDS No.:

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