



Precipitated Calcium Carbonate

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Date of issue: 1/12/2009 Revision date: 7/23/2019 Supersedes: 7/7/2014 Version: 4.1

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

1.1. Product identifier

Product form	: Substance
Substance name	: Precipitated Calcium Carbonate
Chemical name	: Calcium carbonate
EC No.	: 207-439-9
CAS-No.	: 471-34-1
REACH registration No	: 01-2119486795-18-XXXX
Synonyms	: CALOFORT® U, CALOPAQUE® 5970, CALOPAQUE® F, CALOPAQUE® EXTRA LIGHT, DICOM® L100, MULTIFEX-MM®, STURCAL® F, STURCAL® L, STURCAL® M, / VICALity® ALBAGLOS, ALBACAR® 5970, ULTRAPAQUE®, VICALity® HEAVY, CALESSENCE® 450, ALBACAR® SWM, VICALity® ULTRA HEAVY, VICALity® EXTRA LIGHT.

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

1.2.1. Relevant identified uses

Use of the substance/mixture	: Calcium carbonate (powder, slurry) used by workers in industrial settings. Calcium carbonate (powder, slurry) used by professional workers. Consumer uses: Calcium carbonate used by consumers.
Function or use category	: Agents adsorbing and absorbing gases or liquids Anti-set off and adhesive agents Anti-static agents Binding agents Bleaching agents Colouring agents, dyes Colouring agents, pigments Complexing agents Corrosion inhibitors and anti-scaling agents Fertilisers Fillers Flame retardants Flotation agents Flux agents for casting Food/feedstuff additives Laboratory chemicals Lubricants and lubricant additives Pharmaceutical substance pH-regulating agents Plant protection active substance Process regulators, other than polymerisation or vulcanisation processes Processing aid, not otherwise listed Stabilisers Viscosity adjustors Intermediates

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Specialty Minerals Lifford
Lifford Lane, Kings Norton,
Birmingham, B30 3JW
United Kingdom
Telephone: +44 (0)121 252 4500
E-mail: cs_sml@mineralstech.com

Specialty Minerals Inc.,
260 Columbia Street,
Adams,
MA 01220
USA
Telephone: +1 413-743-0591

1.4. Emergency telephone number

Emergency number	: +1 760 476 3961 3E Global Emergency Response Services. Access code: 333336 (if you mention SDS name and company name-you don't need the access code)
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

No labelling applicable

2.3. Other hazards

Other hazards not contributing to the classification : Dust may cause mechanical irritation of the eyes, skin and upper respiratory tract.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	%
Precipitated Calcium Carbonate	(CAS-No.) 471-34-1 (EC No.) 207-439-9 (REACH-no) 01-2119486795-18-XXXX	100

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: IF INHALED: Remove person to fresh air and keep comfortable for breathing. If symptoms develop obtain medical attention.
First-aid measures after skin contact	: Immediately remove contaminated clothing or footwear. Rinse skin with plenty of water or shower. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Do NOT induce vomiting. Rinse mouth. Drink plenty of water. Do not give an unconscious person anything to drink. If symptoms develop, obtain medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.
Dust may cause mechanical irritation of the eyes, skin and upper respiratory tract.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media : None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Not combustible.
Hazardous decomposition products in case of fire : Decomposes at temperatures above (°C): 825. Carbon dioxide.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid fire-fighting water entering the environment.
Protection during firefighting : Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate area. Avoid dust formation. Avoid breathing dust. Avoid contact with eyes, skin and clothing. Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing and eye or face protection.

Emergency procedures : Ventilate area. Avoid dust formation. Avoid breathing dust. Avoid contact with eyes, skin and clothing.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if large amounts of the product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal.

6.4. Reference to other sections

SECTION 8: Exposure controls/personal protection. SECTION 13: Disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Use only outdoors or in a well-ventilated area. Avoid dust formation. Avoid breathing dust. Avoid contact with skin, eyes and clothing. Keep/Store away from Incompatible materials.

Hygiene measures : Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Incompatible materials. Keep container closed when not in use.

7.3. Specific end use(s)

Exposure assessment has been carried out for the substance in the CSR Part 9 with the following Exposure Scenarios (ES): ES1: Manufacturing and industrial processing of calcium carbonate. ES2: Use of calcium carbonate and mixtures containing calcium carbonate in non-industrial settings. As the mixture is not hazardous no exposure assessment or risk characterisation is required.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Dust		
Ireland	Local name	Dusts non-specific
Ireland	OEL (8 hours ref) (mg/m ³)	4 mg/m ³ respirable 10 mg/m ³ total inhalable
Ireland	Regulatory reference	Code of Practice for the Chemical Agents Regulations 2018
United Kingdom	Local name	Dust
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ inhalable dust 4 mg/m ³ respirable dust
United Kingdom	Regulatory reference	EH40/2005 (Third edition, 2018). HSE

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DNEL/DMEL (Workers)

Long-term - local effects, inhalation 6.36 mg/m³

DNEL/DMEL (General population)

Acute - systemic effects, oral 6.1 mg/kg bodyweight

Long-term - systemic effects, oral 6.1 mg/kg bodyweight/day

Long-term - local effects, inhalation 1.06 mg/m³

PNEC (Water)

PNEC aqua (freshwater) 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.

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Precipitated Calcium Carbonate (471-34-1)

PNEC (Sediment)

PNEC sediment (freshwater)

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 (Soil)

PNEC soil

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 (STP)

PNEC sewage treatment plant

100 mg/l NOEC, AF = 10

8.2. Exposure controls

Appropriate engineering controls:

Provide adequate ventilation, including appropriate local extraction, to ensure that occupational exposure limits are not exceeded.

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

In case of repeated or prolonged contact wear gloves. Standard EN 374 - Protective gloves against chemicals. The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed. Gloves should be removed and replaced if there are any signs of degradation or breakthrough.

Eye protection:

Wear safety glasses with side shields. Standard EN 166 - Personal eye-protection.

Skin and body protection:

Not required for normal conditions of use

Respiratory protection:

In case of insufficient ventilation and possible dust formation, wear suitable respiratory equipment. Respiratory protection type EN143 (P2, P3) or EN149 (FFP2, FFP3) is recommended

Thermal hazard protection:

Not required for normal conditions of use.

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke during use. Handle in accordance with good industrial hygiene and safety procedures.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Dry powder.
Colour	: White.
Odour	: Odourless.
Odour threshold	: No data available
pH	: 7 - 9 (20 °C)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 825 °C Decomposes
Freezing point	: No data available
Boiling point	: Not applicable.
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: 825 °C

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Flammability (solid, gas)	: Not flammable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 2.7 - 2.95
Solubility	: Water: 0.0166 g/l (20 °C), (OECD 105 method)
Log Pow	: Not relevant for inorganic substances
Log Kow	: Not relevant for inorganic substances
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Not applicable.
Oxidising properties	: Not oxidising.
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended handling and storage conditions (see section 7). Contact with acids or strong heating liberates carbon dioxide, sometimes violently.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

Contact with acids liberates carbon dioxide, sometimes violently.

10.4. Conditions to avoid

Heat.

10.5. Incompatible materials

Acids.

10.6. Hazardous decomposition products

Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Additional information	: Based on available data, the classification criteria are not met

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LD50 oral, rat	> 2000 mg/kg (OECD 420 method)
LD50 dermal, rat	> 2000 mg/kg (OECD 402 method)
LC50 inhalation, rat (mg/l)	> 3 mg/l - 4 Hours, aerosol (OECD 403 method)

Skin corrosion/irritation	: Not classified pH: 7 - 9 (20 °C)
Additional information	: Based on available data, the classification criteria are not met In vivo: Not irritating to rabbits on cutaneous application (OECD 404 method) In vitro: Reconstructed Human Epidermis (RhE) Test Method: Not irritating (OECD 439 method)
Serious eye damage/irritation	: Not classified pH: 7 - 9 (20 °C)
Additional information	: Based on available data, the classification criteria are not met In vivo: Not irritating to rabbits on ocular application (OECD 405 method) In vitro: Not irritating to eyes, (OECD 437 method)
Respiratory or skin sensitisation	: Not classified
Additional information	: Based on available data, the classification criteria are not met LLNA (The Mouse Local Lymph Node Assay): Negative (OECD 429 method)
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met In vitro: Bacterial reverse mutation test (Ames test): Negative (OECD 471 method) In vitro mammalian chromosome aberration test: Negative (OECD 473 method) In vitro: Mammalian cell gene mutation test: Negative (OECD 476 method)
Carcinogenicity	: Not classified

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Additional information	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met

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NOEL(P0), rat, oral	1000 mg/kg bw/day (Fertility (OECD 422 method))
NOAEL(F1), rat, oral	≥ 1000 mg/kg bw/day (Fertility (OECD 422 method))
NOAEC(P0), female, rat, Inhalation	> 1.25 % w/w Calcium (Maternal toxicity (OECD 414 method))
NOAEC(F1), rat, Inhalation	1.25 % w/w Calcium (Developmental toxicity (OECD 414 method))

STOT-single exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met 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.

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NOAEC (inhalation, rat, dust/mist/fume, 90 days)	>= 0.212 (Local effects), (OECD 413 method)
NOEC, rat, Inhalation	0.399 mg/l (90 days, Systemic effects (OECD 413 method))
NOAEL, rat, oral	1000 mg/kg bw/day (48 days, OECD 422 method)

Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Potential adverse human health effects and symptoms	: Not expected to present a significant hazard under anticipated conditions of normal use. Dust may cause mechanical irritation of the eyes, skin and upper respiratory tract.

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified

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LC50 fish	> 100% v/v saturated solution of test material - Exceeds maximum solubility of substance (96 Hours, Oncorhynchus mykiss), (OECD 203 method)
EC50 Daphnia	> 100% v/v saturated solution of test material - Exceeds maximum solubility of substance (48 Hours, Daphnia magna, Mobility), (OECD 202 method)
EC50 other aquatic organisms 2	> 1000 mg/l 3 Hours - Activated sewage sludge - (OECD 209 method)
EC50 72h algae (1)	> 14 mg/l (72 Hours, Desmodesmus subspicatus, Growth rate), (OECD 201 method)
EC50 72h algae (2)	> 100% v/v saturated solution of test material - Exceeds maximum solubility of substance (72 Hours, Pseudokirchneriella subcapitata, Growth rate), (OECD 201 method)
NOEC, algae	> 50% v/v saturated solution of test material (72 Hours, Pseudokirchneriella subcapitata, Growth rate (OECD 201 method))
NOEC, algae	14 mg/l (72 Hours, Desmodesmus subspicatus, Growth rate (OECD 201 method))

12.2. Persistence and degradability

Precipitated Calcium Carbonate (471-34-1)

Persistence and degradability	Not relevant for inorganic substances.
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12.3. Bioaccumulative potential

Precipitated Calcium Carbonate (471-34-1)

Log Pow	Not relevant for inorganic substances
Log Kow	Not relevant for inorganic substances
Bioaccumulative potential	Bioaccumulation unlikely.

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12.4. Mobility in soil

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Ecology - soil : No information available.

12.5. Results of PBT and vPvB assessment

Precipitated Calcium Carbonate (471-34-1)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : WASTE FROM RESIDUES / UNUSED PRODUCTS

- In accordance with local and national regulations.
- Can be landfilled, when in compliance with local regulations.
- Dispose of in accordance with the European Directives on waste and hazardous waste.

PACKAGING TREATMENT

- Empty containers.
- Dispose of as unused product.
- Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities.
- The empty and clean containers are to be reused in conformity with regulations.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

14.1. UN number

UN-No. (ADR) : Not regulated

UN-No. (IMDG) : Not regulated

UN-No. (IATA) : Not regulated

14.2. UN proper shipping name

Proper Shipping Name : Not regulated

Proper Shipping Name (IMDG) : Not regulated

Proper Shipping Name (IATA) : Not regulated

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not regulated

IMDG

Transport hazard class(es) (IMDG) : Not regulated

IATA

Transport hazard class(es) (IATA) : Not regulated

14.4. Packing group

Packing group : Not regulated

Packing group (IMDG) : Not regulated

Packing group (IATA) : Not regulated

14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Precipitated Calcium Carbonate is not on the REACH Candidate List

Precipitated Calcium Carbonate is not on the REACH Annex XIV List

Precipitated Calcium Carbonate is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Precipitated Calcium Carbonate is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

In accordance with Regulation (EC) No. 1907/2006 (REACH) Article 14, a Chemical Safety Assessment has been carried out for this substance

SECTION 16: Other information

Indication of changes:

Section	Changed item	Change	Comments
1	Identification of the substance/mixture and of the company/undertaking	Modified	
2	Hazards identification	Modified	
4	Composition/information on ingredients	Modified	
5	Fire fighting measures	Modified	
6	Accidental release measures	Modified	
7	Handling and storage	Modified	
8	Exposure controls/personal protection	Modified	
11	Toxicological information	Modified	
12.	Ecological information	Modified	
16	Other information	Modified	

Abbreviations and acronyms:

	ADR (Accord européen relatif au transport international des marchandises Dangereuses par Route)
	ATE (Acute Toxicity Estimate)
	CAS (Chemical Abstracts Service) number
	CLP (Classification, Labeling and Packaging)
	DNEL (Derived No Effect Level)
	EC (European Community)
	EC50 (Effective Concentration 50%)
	EN (European Norm)
	IARC (International Agency for Research on Cancer)
	IATA (International Air Transport Association)
	IMDG (International Maritime Dangerous Goods Code)
	IMO (International Maritime Organisation)
	LC50 (Lethal Concentration 50%)
	LD50 (Lethal Dose 50%)
	MAC (Maximal Allowed Concentration)
	OECD (Organisation for Economic Co-operation and Development)

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	PBT (Persistent, Bioaccumulative and Toxic)
	PNEC (Predicted No Effect Concentration)
	REACH (Registration, Evaluation and Authorisation of Chemicals)
	RID (Règlement concernant le transport international ferroviaire de marchandises)
	STEL (Short Term Exposure Limit)
	TWA (Time Weighted Average)
	UNxxxx (Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods)
	vPvB (very Persistent and very Bioaccumulative)

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

SDS EU (REACH Annex II)

*The information and recommendations contained herein are based upon data believed to be up-to-date and correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information and recommendations contained herein. **THE COMPANY MAKES NO WARRANTY OF FITNESS FOR INTENDED USE WITH RESPECT TO THE PRODUCT DESCRIBED HEREIN.** We accept no responsibility and disclaim all liability for any harmful effects that may be caused by (incorrect) use, handling, purchase, resale, or exposure to our product. Customers and users of our product must comply with all applicable health and safety laws, regulations, and orders. In particular, those users subject to the jurisdiction of the European Union are under an obligation to carry out a risk assessment for the particular work places and to take adequate risk management measures in accordance with the national implementation legislation of EU Directives 89/391 and 98/24.*