



Precipitated Calcium Carbonate

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Date of issue: 12/01/2009 Revision date: 25/04/2023 Supersedes: 23/07/2019 Version: 4.2

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	: CALOPAKE® 5970, CALOPAKE® F, CALOPAKE® EXTRA LIGHT, STURCAL® L, STURCAL® M

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_smil@mineralstech.com

Specialty Minerals Inc.,
260 Columbia Street,
Adams,
MA 01220

Precipitated Calcium Carbonate

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

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)

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 which do not result in 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

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

Component

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
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SECTION 3: Composition/information on ingredients

3.1. Substances

Name : Precipitated Calcium Carbonate
CAS-No. : 471-34-1
EC No. : 207-439-9

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Precipitated Calcium Carbonate	CAS-No.: 471-34-1 EC No.: 207-439-9 REACH-no: 01-2119486795-18-XXXX	100	Not classified

3.2. Mixtures

Not applicable

Precipitated Calcium Carbonate

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

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.
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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.

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.
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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.
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Precipitated Calcium Carbonate

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

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

8.1.1 National occupational exposure and biological limit values

Exposure limit values for the other components

Dust		
Ireland - Occupational Exposure Limits		
Local name	Dusts non-specific	
OEL (8 hours ref) (mg/m ³)	10 mg/m ³ total inhalable 4 mg/m ³ respirable	
Regulatory reference	Chemical Agents Code of Practice 2021	
United Kingdom - Occupational Exposure Limits		
Local name	Dust	
WEL TWA (mg/m ³)	10 mg/m ³ inhalable dust 4 mg/m ³ Respirable dust	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

Precipitated Calcium Carbonate (471-34-1)	
DNEL/DMEL (Workers)	
Long-term - local effects, inhalation	6.36 mg/m ³

Precipitated Calcium Carbonate

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Precipitated Calcium Carbonate (471-34-1)	
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/m ³
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.
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

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

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

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

8.2.2.1. Eye and face protection

Eye protection:

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

8.2.2.2. Skin protection

Skin and body protection:

Not required for normal conditions of use

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.

Precipitated Calcium Carbonate

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

8.2.2.3. Respiratory protection

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

8.2.2.4. Thermal hazards

Thermal hazard protection:

Not required for normal conditions of use.

8.2.3. Environmental exposure controls

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
Colour	: White.
Appearance	: Dry powder.
Odour	: Odourless.
Odour threshold	: Not available
Melting point	: 825 °C Decomposes
Freezing point	: Not available
Boiling point	: Not applicable.
Flammability (solid, gas)	: Not flammable
Explosive properties	: Not applicable.
Oxidising properties	: Not oxidising.
Explosive limits	: Not applicable
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: 825 °C
pH	: 7 – 9 (20 °C)
pH solution	: Not available
Viscosity, kinematic	: Not applicable
Solubility	: Water: 0.0166 g/l (20 °C), (OECD 105 method)
Log Kow	: Not relevant for inorganic substances
Log Pow	: Not relevant for inorganic substances
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: 2.7 – 2.95
Relative vapour density at 20°C	: Not applicable
Particle size	: 0.1 — 20 µm (d50)

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

Precipitated Calcium Carbonate

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

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 or strong heating 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 hazard classes as defined in Regulation (EC) No 1272/2008

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

Precipitated Calcium Carbonate (471-34-1)	
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: 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 Assessment): 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
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

Precipitated Calcium Carbonate

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Precipitated Calcium Carbonate (471-34-1)	
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.

Precipitated Calcium Carbonate (471-34-1)	
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

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No additional information available

11.2.2. Other information

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.
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SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

Precipitated Calcium Carbonate (471-34-1)	
LC50 fish	> 100% v/v saturated solution of test material - Exceeds maximum solubility of substance (96 Hours, <i>Oncorhynchus mykiss</i>), (OECD 203 method)
EC50 Daphnia	> 100% v/v saturated solution of test material - Exceeds maximum solubility of substance (48 Hours, <i>Daphnia magna</i> , 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, <i>Desmodesmus subspicatus</i> , Growth rate), (OECD 201 method)
EC50 72h - Algae [2]	> 100% v/v saturated solution of test material - Exceeds maximum solubility of substance (72 Hours, <i>Pseudokirchneriella subcapitata</i> , Growth rate), (OECD 201 method)
NOEC, algae	> 50% v/v saturated solution of test material (72 Hours, <i>Pseudokirchneriella subcapitata</i> , Growth rate (OECD 201 method))
NOEC, algae	14 mg/l (72 Hours, <i>Desmodesmus subspicatus</i> , Growth rate (OECD 201 method))

Precipitated Calcium Carbonate

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

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.

12.4. Mobility in soil

Precipitated Calcium Carbonate (471-34-1)

Ecology - soil	No information available.
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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

Component

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
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12.6. Endocrine disrupting properties

No additional information available

12.7. 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

Precipitated Calcium Carbonate

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

14.1. UN number or ID 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. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Not listed on REACH Annex XVII

REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

Precipitated Calcium Carbonate

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

PIC Regulation (Prior Informed Consent)

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.

POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

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	
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%)

Precipitated Calcium Carbonate

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Abbreviations and acronyms:	
	MAC (Maximal Allowed Concentration)
	OECD (Organisation for Economic Co-operation and Development)
	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.

Safety Data Sheet (SDS), EU

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.