



# Precipitated calcium carbonate (PCC) coated with calcium stearate

## 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 : Mixture  
Product name : Precipitated calcium carbonate (PCC) coated with calcium stearate  
Synonyms : CALOFORT® S, CALOFORT® SH, CALOFORT® SK, CALOFORT® SM, CALOFORT® SV, CALOFORT® SV12, CALOFORT® SV14 / SUPERPFLEX® 200, ULTRA-PFLEX®, ULTRAFLEX®100

#### 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)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Not classified

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### 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

Not applicable

### 3.2. Mixtures

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	>= 95	Not classified
Calcium stearate	(CAS-No.) 1592-23-0 (EC No.) 216-472-8	1 - 5	Not classified

## 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.

### 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. Do not breathe 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 <sup>3</sup> )	4 mg/m <sup>3</sup> respirable 10 mg/m <sup>3</sup> 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 <sup>3</sup> )	10 mg/m <sup>3</sup> inhalable dust 4 mg/m <sup>3</sup> respirable dust
United Kingdom	Regulatory reference	EH40/2005 (Third edition, 2018). HSE

### Precipitated Calcium Carbonate (471-34-1)

#### DNEL/DMEL (Workers)

Long-term - local effects, inhalation 6.36 mg/m<sup>3</sup>

#### 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<sup>3</sup>

#### 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.
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#### 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.
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#### PNEC (STP)

PNEC sewage treatment plant	100 mg/l NOEC, AF = 10
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### 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, Calcium carbonate)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 825 °C Decomposes (Calcium carbonate)
Freezing point	: No data available
Boiling point	: Not applicable.
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: 825 °C (Calcium carbonate)

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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 (Calcium carbonate)
Solubility	: Water: 0.0166 g/l (20 °C, Calcium carbonate), (OECD 105 method)
Log Pow	: No data available
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

#### Calcium stearate (1592-23-0)

LD50 oral, rat	> 2000 mg/kg bodyweight (female), (OECD 423 method)
LD50 dermal, rat	> 2000 mg/kg (OECD 420 method)

#### 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, Calcium carbonate)
Additional information	: Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified pH: 7 - 9 (20 °C, Calcium carbonate)
Additional information	: Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
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

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### 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

### 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
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

### Precipitated Calcium Carbonate (471-34-1)

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 (PCC) coated with calcium stearate

Persistence and degradability	No information available.
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#### Calcium stearate (1592-23-0)

Persistence and degradability	Readily biodegradable.
Biodegradation	91 % (24 days), (OECD 301B method)

### 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 (PCC) coated with calcium stearate

Bioaccumulative potential	Bioaccumulation unlikely.
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Calcium stearate (1592-23-0)	
BCF fish 1	3.377 l/kg (calculated value)
Bioaccumulative potential	Low bioaccumulation 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 (PCC) coated with calcium stearate	
Ecology - soil	No information available.

Calcium stearate (1592-23-0)	
Log Koc	1.812 (pH 7.15, 25 °C), (OECD 121 method)

Precipitated Calcium Carbonate (471-34-1)	
Ecology - soil	No information available.

### 12.5. Results of PBT and vPvB assessment

Precipitated calcium carbonate (PCC) coated with calcium stearate	
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	
Calcium stearate (1592-23-0)	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
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 / IATA / IMDG

### 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

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### 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

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance 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.

Substance(s) are 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

No chemical safety assessment has been carried out

## SECTION 16: Other information

Indication of changes:			
Section	Changed item	Change	Comments
1	Identification of the substance/mixture and of the company/undertaking	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	
9	Physical and chemical properties	Modified	
11	Toxicological information	Modified	
12.	Ecological information	Modified	



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16	Other information	Modified	
<b>Abbreviations and acronyms:</b>			
	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)		
	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.*