Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)

Trade name :	CALEOSANA		
Revision date :	11.03.2017	**Version (Revision) :**	3.0.0 (2.0.0)
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
CALEOSANA

1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses
Bulding and cunstruction preparation: Dehumidifying, macro, finishing plaster.

1.3 Details of the supplier of the safety data sheet

Producer/supplier :	AZICHEM S.r.l.
Street :	Via G.Gentile, 16/A
Postal code/city:	46044 GOITO (MN) Italy
Telephone :	+39 0376 604185/604365
Fax :	+39 0376 604398
Information contact:	info@azichem.com

1.4 Emergency telephone number
Centro Antiveleni di Milano +39 02 66101029 (CAV Ospedale Niguarda Ca' Granda -Milano) (24h)
Centro Antiveleni di Pavia +39 0382 24444 (CAV IRCCS Fondazione Maugeri - Pavia)
Centro Antiveleni di Bergamo +39 800 883300 (CAV Ospedali Riuniti - Bergamo)
Centro Antiveleni di Firenze +39 055 7947819 (CAV Ospedale Careggi - Firenze)
Centro Antiveleni di Roma +39 06 3054343 (CAV Policlinico Gemelli - Roma)
Centro Antiveleni di Roma +39 06 49978000 (CAV Policlinico Umberto I - Roma)
Centro Antiveleni di Napoli +39 081 7472870 (CAV Ospedale Cardarelli - Napoli)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.
Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.
Skin Sens. 1 ; H317 - Skin sensitisation : Category 1 ; May cause an allergic skin reaction.
STOT SE 3 ; H335 - STOT-single exposure : Category 3 ; May cause respiratory irritation.

2.2 Label elements
Labelling according to Regulation (EC) No. 1272/2008 [CLP]
Hazard pictograms

Corrosion (GHS05) · Exclamation mark (GHS07)

Signal word
Danger

Hazard components for labelling
CEMENT, PORTLAND, CHEMICALS (WHITE CEMENT) ; CAS No. : 65997-15-1
LIME (CHEMICAL), HYDRAULIC ; CAS No. : 85117-09-5
FLUE DUST ; CAS No. : 68475-76-3

Hazard statements

H318	Causes serious eye damage.
H315	Causes skin irritation.

H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.

Precautionary statements

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P310	Immediately call a POISON CENTER/doctor
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

2.3 Other hazards

None

SECTION 3: Composition / information on ingredients

3.2 Mixtures

Hazardous ingredients

CEMENT, PORTLAND, CHEMICALS ; EC No. : 266-043-4; CAS No. : 65997-15-1

Weight fraction : ≥ 20 - < 25 %
Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 STOT SE 3 ; H335

LIME (CHEMICAL), HYDRAULIC ; REACH registration No. : 01-2119475523-36 ; EC No. : 285-561-1; CAS No. : 85117-09-5

Weight fraction : ≥ 5 - < 10 %
Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Skin Irrit. 2 ; H315 STOT SE 3 ; H335

FLUE DUST (*) ; REACH registration No. : 01-2119486767-17 ; EC No. : 270-659-9; CAS No. : 68475-76-3

Weight fraction : ≥ 1 - < 5 %
Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 STOT SE 3 ; H335

Additional information

(*) Flue dust refers to powders deriving from the Portland cement clinker production process.
Cement-containing cements and mixtures are finely ground mixtures consisting of clinker, gypsum (or other forms of calcium sulphate) and other specific constituents (limestone, pozzolan, etc.) within the composition limits specified by the respective product standards referred to in point 15.1.
Flue dust, if present in the cement formulation, are dosed as a secondary constituent. For some types of cements and mixtures containing cement, other components may be used as secondary constituents, grinding additives and any reducing agents, which have toxicological characteristics and levels of risk equal or inferior to those of the clinker.
The full text of the hazard statements (phrases) H and EUH is given in Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

When in doubt or if symptoms are observed, get medical advice.

Following inhalation

Remove victim out of the danger area. Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

In case of skin contact

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap.

After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion

Do NOT induce vomiting. Seek medical advice immediately. Never give anything by mouth to an unconscious person or a person with cramps.

4.2 Most important symptoms and effects, both acute and delayed

On contact with moist skin may cause thickening, cracking and cracking of the skin. Prolonged contact in combination with existing abrasions can cause burns. Direct contact with the product may cause corneal injury due to mechanical stress, immediate or delayed irritation or inflammation. The direct contact with large quantities of product dry or with projections of wet product can cause effects ranging from irritation ocular moderate (eg. Conjunctivitis or blepharitis) to chemical burns and blindness. Dust may irritate throat and respiratory system. Coughing, sneezing and panting may occur as a result of exposure above the occupational exposure limits.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

The product is non-combustible. Use fire-extinguishing media appropriate for surrounding materials.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Do not inhale explosion and combustion gases.

5.3 Advice for firefighters

Remove persons to safety.

Special protective equipment for firefighters

Do not inhale explosion and combustion gases. Use appropriate respiratory protection.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Clear spills immediately. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.

For non-emergency personnel

Remove persons to safety.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3 Methods and material for containment and cleaning up

For containment

Collect in closed and suitable containers for disposal.

For cleaning up

The contaminated area should be cleaned up immediately with: Water

Other information

Avoid generation of dust.

6.4 Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1 Precautions for safe handling

When using do not eat, drink, smoke, sniff. Handle and open container with care.

Protective measures

Specific requirements or handling rules

Do not breathe dust. See section 8.

Advices on general occupational hygiene

Normal precautions taken when handling chemicals should be observed.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Protect against Humidity.

Hints on joint storage

Storage class : 13

Storage class (TRGS 510) : 13

Do not store together with

Do not store together with Food and feedingstuffs

Keep away from

Store at least 3 metres apart from: Chemicals/products that react together readily

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

DNEL/DMEL and PNEC values

DNEL/DMEL

Limit value type :	DNEL worker (local) (CEMENT, PORTLAND, CHEMICALS ; CAS No. : 65997-15-1)
Exposure route :	Inhalation
Exposure frequency :	Short-term (acute)
Limit value :	1 mg/m³
Limit value type :	DNEL Consumer (local) (FLUE DUST ; CAS No. : 68475-76-3)
Exposure route :	Inhalation
Exposure frequency :	Short-term (acute)
Limit value :	1 mg/m³
Limit value type :	DNEL Consumer (local) (FLUE DUST ; CAS No. : 68475-76-3)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	4 mg/m³
Limit value type :	DNEL worker (local) (FLUE DUST ; CAS No. : 68475-76-3)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	1 mg/m³
Limit value type :	DNEL worker (local) (FLUE DUST ; CAS No. : 68475-76-3)
Exposure route :	Inhalation
Exposure frequency :	Short-term (acute)

Limit value : 4 mg/m³

PNEC

Limit value type : PNEC aquatic, freshwater (FLUE DUST ; CAS No. : 68475-76-3)
Limit value : 28 mg/m³
Limit value type : PNEC aquatic, intermittent release (FLUE DUST ; CAS No. : 68475-76-3)
Limit value : 282 mg/m³
Limit value type : PNEC aquatic, marine water (FLUE DUST ; CAS No. : 68475-76-3)
Limit value : 3 mg/m³
Limit value type : PNEC sediment, freshwater (FLUE DUST ; CAS No. : 68475-76-3)
Limit value : 0,875 mg/kg
Limit value type : PNEC sediment, marine water (FLUE DUST ; CAS No. : 68475-76-3)
Limit value : 0,088 mg/kg
Limit value type : PNEC soil, freshwater (FLUE DUST ; CAS No. : 68475-76-3)
Limit value : 5 mg/kg
Limit value type : PNEC sewage treatment plant (STP) (FLUE DUST ; CAS No. : 68475-76-3)
Limit value : 6 mg/l

8.2 Exposure controls

Personal protection equipment

In the immediate working surroundings there must be Make available sufficient washing facilities When using do not eat, drink, smoke, sniff.

Eye/face protection

Suitable eye protection

Eye glasses with side protection DIN EN 166

Skin protection

Hand protection

Tested protective gloves must be worn DIN EN 374

Respiratory protection

Quarter-face mask (DIN EN 140) Half-face mask (DIN EN 140) Filtering Half-face mask (DIN EN 149)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Safety relevant basis data

Aspect		powder
Colour		greyish
Odour		none
Melting point/melting range :	(1013 hPa)	No data available
Vapour density	((air = 1))	Data not available
Initial boiling point and boiling range :	(1013 hPa)	No data available
Decomposition temperature :		No data available
Self flammability		not applicable
Flash point :		Not flammable
Flammability (solid, gas)		Data not available
Lower explosion limit :		No data available
Upper explosion limit :		No data available
Explosive properties		Not applicable

Vapour pressure	(20 °C)		negligible	
Density :	(20 °C)		No data available	
Water solubility :	(20 °C)		almost insoluble	
pH :		>	11	
Log Pow	(20 °C)		not applicable	
Viscosity :	(20 °C)		No data available	
Odour threshold			Data not available	
Evaporation rate			Data not available	
Maximum VOC content (EC) :			0	Wt %
Oxidizing properties			Not oxidising	

9.2 Other information
None

SECTION 10: Stability and reactivity

10.1 Reactivity
Basic reaction when in mixed with water before to became a solid inert compound.

10.2 Chemical stability
Stable under recommended storage and handling conditions. See section 7. No additional measures necessary.

10.3 Possibility of hazardous reactions
No hazardous reactions when stored and handled properly.

10.4 Conditions to avoid
Protect from contact with water to avoid solidification of the product.

10.5 Incompatible materials
Acid

10.6 Hazardous decomposition products
None

SECTION 11: Toxicological information

11.1 Information on toxicological effects
Acute effects
Acute oral toxicity

Parameter :	LD50 (LIME (CHEMICAL), HYDRAULIC ; CAS No. : 85117-09-5)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2000 mg/kg bw/day
Method :	OECD 425
Parameter :	LD50 (FLUE DUST ; CAS No. : 68475-76-3)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 1848 mg/kg bw/day
Exposure time :	7 days

It has no significant toxicity properties.

STOT-single exposure
None

Practical experience/human evidence
None

Acute dermal toxicity

Parameter : LD50 (CEMENT, PORTLAND, CHEMICALS ; CAS No. : 65997-15-1)
Exposure route : Dermal
Species : Rabbit
Effective dose : > 2000 mg/kg bw/day
Exposure time : 24 days
Parameter : LD50 (FLUE DUST ; CAS No. : 68475-76-3)
Exposure route : Dermal
Species : Rat
Effective dose : > 2000 mg/kg bw/day

It has no significant toxicity properties.

Acute inhalation toxicity

Parameter : LD50 (FLUE DUST ; CAS No. : 68475-76-3)
Exposure route : Inhalation
Species : Rat
Effective dose : > 6,04 mg/l
Exposure time : 4 h

Irritant and corrosive effects

Primary irritation to the skin

On contact with moist skin may cause thickening, cracking and cracking of the skin. Prolonged contact in combination with existing abrasions can cause burns.

Irritation to eyes

Direct contact with the product may cause corneal injury due to mechanical stress, immediate or delayed irritation or inflammation. The direct contact with large quantities of product dry or with projections of wet product can cause effects ranging from irritation ocular moderate (eg. Conjunctivitis or blepharitis) to chemical burns and blindness.

Irritation to respiratory tract

Dust may irritate throat and respiratory system. Coughing, sneezing and panting may occur as a result of exposure above the occupational exposure limits.

Sensitisation

Eczema can be developed as a result of exposure to dust damp, caused both by the high pH which induces irritant contact dermatitis after prolonged contact, either by an immunological reaction to Cr (VI) soluble which causes allergic contact dermatitis.

In case of inhalation

not sensitising.

Repeated dose toxicity (subacute, subchronic, chronic)

Subacute inhalation toxicity

The available evidence indicates clearly that occupational exposure to cement dust content in the product causes deficits in lung function. However, the evidence available at present are insufficient to establish with certainty the dose-response relationship for these effects.

Chronic inhalation toxicity

There were no chronic effects or effects at low concentrations.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

The ingredients in this mixture do not meet the criteria for classification as CMR according to CLP.

SECTION 12: Ecological information

Do not allow uncontrolled discharge of product into the environment.

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter : LC50 (LIME (CHEMICAL), HYDRAULIC ; CAS No. : 85117-09-5)

Species : Fresh Water fish
Effective dose : 50,6 mg/l
Exposure time : 96 h
Parameter : LC50 (LIME (CHEMICAL), HYDRAULIC ; CAS No. : 85117-09-5)
Species : Saltwater Fish
Effective dose : 457 mg/l
Exposure time : 96 h

Acute (short-term) daphnia toxicity

Parameter : EC50 (LIME (CHEMICAL), HYDRAULIC ; CAS No. : 85117-09-5)
Species : Freshwater invertebrates.
Effective dose : 49,1 mg/l
Exposure time : 48 h
Parameter : EC50 (LIME (CHEMICAL), HYDRAULIC ; CAS No. : 85117-09-5)
Species : Saltwater invertebrates
Effective dose : 158 mg/l
Exposure time : 96 h

Chronic (long-term) daphnia toxicity

Parameter : NOEC (LIME (CHEMICAL), HYDRAULIC ; CAS No. : 85117-09-5)
Species : Saltwater invertebrates
Effective dose : 32 mg/l
Exposure time : 96 h

Acute (short-term) algae toxicity

Parameter : EC50 (LIME (CHEMICAL), HYDRAULIC ; CAS No. : 85117-09-5)
Species : Freshwater algae
Effective dose : 184,57 mg/l
Exposure time : 72 h
Parameter : EC0 (LIME (CHEMICAL), HYDRAULIC ; CAS No. : 85117-09-5)
Species : Freshwater algae
Effective dose : 48 mg/l
Exposure time : 72 h

12.2 Persistence and degradability
Poorly watersoluble, inorganic product. Can be mechanically precipitated to a large extent in biological sewage plants.

12.3 Bioaccumulative potential
not applicable

12.4 Mobility in soil
Low solubility in soil.

12.5 Results of PBT and vPvB assessment
This product is none, or does not contain a substance called a PBT or vPvB

12.6 Other adverse effects
No information available.

12.7 Additional ecotoxicological information
None

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Product/Packaging disposal
Dispose according to legislation.
Waste treatment options

Appropriate disposal / Package

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

14.1 UN number

No dangerous goods in sense of this transport regulation.

14.2 UN proper shipping name

No dangerous goods in sense of this transport regulation.

14.3 Transport hazard class(es)

No dangerous goods in sense of this transport regulation.

14.4 Packing group

No dangerous goods in sense of this transport regulation.

14.5 Environmental hazards

No dangerous goods in sense of this transport regulation.

14.6 Special precautions for user

None

14.7 Transport in bulk according to Annex II of MARPOL 73/78 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 legislation

Regulation (EC) 1907/2006/CE (REACh). Regulation (EC) No 1272/2008 (CLP). Regulation (EU) 2015/830 requirements for the compilation of safety data sheets. Commission Regulation (EC) No 790/2009/CE (amending, for the purposes of its adaptation to technical and scientific progress (ATP), Regulation (EC) No 1272/2008). Commission Regulation (EU) No 286/2011 (amending, for the purposes of its adaptation to technical and scientific progress (ATP), Regulation (EC) No 1272/2008). Commission Regulation (EU) No 618/2012 (amending, for the purposes of its adaptation to technical and scientific progress (ATP), Regulation (EC) No 1272/2008). Commission Regulation (EU) No 487/2013 (amending, for the purposes of its adaptation to technical and scientific progress (ATP), Regulation (EC) No 1272/2008). Commission Regulation (EU) No 758/2013 (amending, for the purposes of its adaptation to technical and scientific progress (ATP), Regulation (EC) No 1272/2008). Commission Regulation (EU) No 944/2013 (amending, for the purposes of its adaptation to technical and scientific progress (ATP), Regulation (EC) No 1272/2008). Commission Regulation (EU) No 605/2014 (amending, for the purposes of its adaptation to technical and scientific progress (ATP), Regulation (EC) No 1272/2008). Commission Regulation (EU) No 1297/2015 (amending, for the purposes of its adaptation to technical and scientific progress (ATP), Regulation (EC) No 1272/2008).

Other regulations (EU)

Regulation (CE) 1907/2006: Substance of very high concern included in the SVHC Candidate List

None

National regulations

Italy: Legislative Decree 81/2008 (Consolidated Law on protection of health and safety at work), as amended and Directive 2009/161/UE - chemical risk assessment in accordance with Title IX

Water hazard class (WGK)

Class : nwg (Non-hazardous to water) Classification according to VwVwS

15.2 Chemical Safety Assessment

not applicable

SECTION 16: Other information

16.1 Indication of changes

02. Classification of the substance or mixture · 02. Label elements · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] - Hazard components for labelling · 03. Hazardous ingredients

16.2 Abbreviations and acronyms

LEGENDA:

ADR:	Accord européen relative au transport international des marchandises dangereuses par route (accordo europeo relativo al trasporto internazionale delle merci pericolose su strada)
ASTM:	ASTM International, originariamente nota come American Society for Testing and Materials (ASTM)
EINECS:	European Inventory of Existing Commercial Chemical Substances (Registro Europeo delle Sostanze chimiche in Commercio)
EC(0/50/100):	Effective Concentration 0/50/100 (Concentrazione Effettiva Massima per 0/50100% degli Individui)
LC(0/50/100):	Lethal Concentration 0/50/100 (Concentrazione Letale per 0/50100% degli Individui)
IC50:	Inhibitor Concentration 50 (Concentrazione Inibente per il 50% degli Individui)
NOEL:	No Observed Effect Level (Dose massima senza effetti)
NOEC:	No Observed Effect Concentration (Concentrazione massima senza effetti)
LOEC:	Lowest Observed Effect Concentration (Concentrazione massima alla quale è possibile evidenziare un effetto)
DNEL:	Derived No Effect Level (Dose derivata di non effetto)
DMEL:	Derived Minimum Effect Level (Dose derivata di minimo effetto)
CLP:	Classification, Labelling and Packaging (Classificazione, Etichettatura e Imballaggio)
CSR:	Rapporto sulla Sicurezza Chimica (Chemical Safety Report)
LD(0/50/100):	Lethal Dose 0/50/100 (Dose Letale per 0/50/100% degli Individui)
IATA:	International Air Transport Association (Associazione Internazionale del Trasporto Aereo)
ICAO:	International Civil Aviation Organization (Organizzazione Internazionale dell'Aviazione Civile)
Codice IMDG:	International Maritime Dangerous Goods code (Codice sul Regolamento del Trasporto Marittimo)
PBT:	Persistent, bioaccumulative and toxic (sostanze persistenti bioaccumulabili e tossiche)
RID:	Règlement concernent le transport International ferroviaire des marchandises Dangereuses (Regolamento concernente il trasporto Internazionale ferroviario delle merci Pericolose)
STEL:	Short term exposure limit (limite di esposizione a breve termine)
TLV:	Threshold limit value (soglia di valore limite)
TWA:	Time Weighted Average (media ponderata nel tempo)
UE:	Unione Europea
vPvB:	Very persistent very bioaccumulative (sostanze molto persistenti e molto bioaccumulabili)
N.D.:	Non disponibile.
N.A.:	Non applicabile
VwVwS.:	Text of Administrative Regulation on the Classification of Substances hazardous to waters into Water Hazard Classes (Verwaltungsvorschrift wassergefährdende Stoffe – VwVwS)
PNEC:	Predicted No Effect Concentration
PNOS:	Particulates not Otherwise Specified
BOD:	Biochemical Oxygen Demand
COD:	Chemical Oxygen Demand
BCF:	BioConcentration Factor
TRGS :	Technische Regeln für Gefahrstoffe -Technical Rules for Hazardous Substances, defined by The Federal Institute for Occupational Safety and Health, Germany
LCLo:	Lethal Concentration Low (La minima concentrazione letale)
ThOD:	Theoretical Oxygen Demand

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

calculated.

16.5 Relevant H- and EUH-phrases (Number and full text)

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

16.6 Training advice

None

16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.