

## Calcium hydroxide nanoparticles in aqueous suspension

## Safety Data Sheet

compliant with (EC) Regulation No. 453/2010

SECTION 1: Identification of the substance/mixture and the company/undertaking		
1.1 Product Identifier		
Product form	Mixture	
Name of the mixture	Calcium hydroxide in water	
EC number	215-137-3	
CAS number	1305-62-0	
Formula	Ca(OH) <sub>2</sub>	
1.2 Relevant identified uses of the subs	tance or mixture and unadvisable uses	
Description/Use	Consolidating agent for natural stone materials, stucco and historical	
	mortar, dispersed in water and perfectly compatible with all carbonate	
	matrix substrates	
1.3 Information on the supplier of the s	afety data sheet	
Manufacturer	Sustainable Nanoparticles Production and Technologies S.R.L. (SNAPTECH	
(under licence of Patent	S.R.L.) Piazzale Pontieri 1, 67100 L'Aquila Tel. No. 0862.434234	
2880.101.B1.2016 of the University of	snaptech.srl@gmail.com	
L'Aquila)		
Distributor	IBIX S.r.L. VIA DELL'INDUSTRIA, 43 48022 LUGO (RA) (ITALY) - TEL: +39	
	0545 994589 – info@ibix.it	
1.4 Emergency telephone number		
Telephone	+39 0862434234 (office hours)	

SECTION 2: H	azards identification			
2.1 Classification of the substance or mixture				
Classification	Classification in accordance with (EC) Regulation No. 1272/2008 [CLP]Mixture/Substance: SDS UE 2015: In			
compliance w	vith (EU) Regulation 2015/830 (REACH Encl	osure II)		
GHS classifica	tion			
Section	Hazard class	Hazard category class	Hazard indicator	
3.2	skin corrosion/irritation	(Skin Irrit. 2)	H315	
3.3	serious eye damage/irritation (Eye Dam. 1) H318			
3.8R	3.8R specific target organ toxicity - single exposure (irritation of the respiratory tract) (STOT SE 3) H335			
Adverse physical-chemical effects, for human health and the environment				
No further information available				
2.2 Label elements				
Labelling in accordance with (EC) regulation No. 1272/2008 [CLP]				

Hazard pictograms (CLP)	
	GHS05 GHS07
Hazard indications (CLP)	H315 Causes skin irritation
	H318 Causes serious eye damage
	H335 May irritate respiratory tract
Precautionary advice - prevention (CLP)	P233 Keep the container tightly closed
	P260 - Do not breathe in
	dust/fumes/gas/mist/vapours/aerosols
	P280 Wear gloves/protect eyes/face
Precautionary advice - reaction (CLP)	P302+P352 IN THE EVENT OF CONTACT WITH SKIN: wash
	with plenty of water.
	P305+P351+P338 IN THE EVENT OF CONTACT WITH EYES:
	rinse thoroughly for several minutes. Remove possible
	contact lenses if it is easy to do so. Continue to rinse.
	P310 Immediately contact a POISON CENTRE/doctor
	P312 If you feel unwell contact a doctor
2 3 Other hazards	
Other hazards which do not contribute to the	There is no additional information
classification	
Classification	

SECTION 3: Composition/information on the ingredients		
3.1 Substances		
Not applicable		
3.2 Mixtures		
1 - 4% Calcium hydroxide	REACH Register No. 01-2119475151-45-0264; EC number: 215-137-3; Molecular formula: $H_2CaO_2$ CAS number: 1305-62-0 Molar mass: 74.09 g/mol Classification 1272/2008 (CLP): skin irrit. 2 H315; Eye dam. 1 H318; STOT SE 3 H335	
96 – 99% Water		

SECTION 5: Firefighting measures		
5.1 Extinguishing media		
Suitable extinguishing media	Adapt extinguishing equipment to the surrounding fire environment. Nebulised water. Dry powder. Foam.	
5.2 Special hazards arising from the substance or mixture		
Danger of fire	DIRECT DANGER OF FIRE: Non-combustible. INDIRECT DANGER OF FIRE: Reactions causing risk of fire: see "Reactivity danger"	
Danger of explosion	INDIRECT DANGER OF EXPLOSION: Reactions causing risk of explosion: see "Reactivity"	
Dangerous combustion products in	Possible development of toxic fumes	
case of fire		
5.3 Advice for firefighters		

Fire extinction instructions	Protective gloves. Protective visor. Protective clothing.
	Dust dispersion: compressed air/oxygen respirator. Dust
	dispersion: dust-tight clothing.
Protection during fire fighting	Fire/heating: compressed air/oxygen respirator. Do not
	work without appropriate protective equipment. Self-
	contained insulating respirator. Full body protection.

**SECTION 6: Measures in the event of accidental release** 

6.1 Personal precautions, protective equipment and emergency procedures

Wear gloves, protective clothing, safety goggles.

**6.2 Environmental precautions** 

Keep away from drains, surface water and groundwater

6.3 Methods and materials for containment and cleaning up

Drain covers. Mechanical containment. In the event of solid product avoid dust formation. Place in appropriate containers for disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not use empty containers until they have been cleaned. Ensure there are no residual incompatible materials in the containers before transfer operations. Contaminated clothing must be changed before entering the dining areas. Wash hands before breaks and at the end of work.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a dry place. Respect compatible storage of chemicals. Use local and general ventilation.

Recommended storage temperature: 15 - 25 °C.

7.3 Specific end uses

There is no information available.

#### SECTION 8: Exposure controls/personal protection

**8.1 Control parameters** 

Workplaces should be adequately ventilated. Where possible, install effective general air exchange systems. If these measures are not sufficient to keep concentrations of particulate materials below the exposure limit, appropriate respiratory tract protective equipment must be used.

Occupational exposure values (workplace exposure limits): Irrelevant

**Relevant DNEL/DMEL/PNEC and other threshold levels** 

values related to human health			
Threshold level	Protection target, route of exposure	Intended for	Exposure time
4 mg/m <sup>3</sup>	human, via inhalation	workers (industrial)	acute - systemic effects
1 mg/m³	human, via inhalation	workers (industrial)	chronic - systemic effects
4 mg/m <sup>3</sup>	human, via inhalation	workers (industrial)	acute - local effects
1 mg/m³	human, via inhalation	workers (industrial)	chronic - local effects
	ues related to h Threshold level 4 mg/m <sup>3</sup> 1 mg/m <sup>3</sup> 4 mg/m <sup>3</sup> 1 mg/m <sup>3</sup>	ues related to human healthThreshold levelProtection target, route of exposure4 mg/m³human, via inhalation1 mg/m³human, via inhalation4 mg/m³human, via inhalation4 mg/m³human, via inhalation1 mg/m³human, via inhalation1 mg/m³human, via inhalation	ues related to human healthThreshold levelProtection target, route of exposureIntended for4 mg/m³human, via inhalationworkers (industrial)1 mg/m³human, via inhalationworkers (industrial)4 mg/m³human, via inhalationworkers (industrial)1 mg/m³human, via inhalationworkers (industrial)1 mg/m³human, via inhalationworkers (industrial)1 mg/m³human, via inhalationworkers (industrial)

# Endpoint Threshold level Environs Exposure time PNEC 0.49 mg/l freshwater short-term (isolated case) PNEC 0.32 mg/l seawater short-term (isolated case)

	2		short-term (isolated case)
PNEC	3 mg/1	Waste water treatment plant (STP)	short term (isolated ease)
PNEC	1,080 mg/kg	soil	short-term (isolated case)
PNEC	0.49 mg/l	water	continual
8.2 Exposure	controls		
Suitable tech	nical controls	Ensure good ventilation of the	e workplace
Personal prot	tective equipme	nt	
<b>Protection of skin and hands</b> Wear rubber gloves approved according to the EN374 standard. Respiratory protection Respiratory masks must be worn in workplaces that are insufficiently ventilated and during work with mechanical spraying equipment.			
Suitable respirator In the event of inadequate ventilation, exceeding the limit values in the workplace, excessive olfactory disturbance or in the presence of aerosols, mists and smoke, a respiratory tract protective mask independent of the ambient air or a respiratory tract protective mask with type A filter or a corresponding combination filter (presence of aerosols, mists and smoke, e.g. A-P2 or ABEK-P2) according to the EN 141 standard must be used.			
Hygiene I Do not e respirator for the pr	<b>neasures and ge</b> at, drink or smo ry system. The m oduct.	neral safety oke in the workplace. Use suitable protective m anufacturer of the protective equipment must en	neasures for hands, eyes, skin and nsure that the equipment is suitable
Symbol(s) Pe	rsonal protective	e equipment	
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	calcium oxide (CaO) and water
Viscosity	no data available
Explosive properties	none
Oxidising properties	none
9.2 Other information	
VOC content:	0%
There is no additional information.	

#### SECTION 10: Stability and reactivity

**10.1 Reactivity** 

It absorbs CO2 from the environment. It is reactive if exposed to air, transforming into calcium carbonate in the form of calcite

**10.2 Chemical stability** 

The product is stable when packaged under normal handling and storage conditions. If exposed to air it absorbs CO<sub>2</sub> and transforms into calcium carbonate

**10.3 Possibility of hazardous reactions** 

It reacts exothermically with acids. When heated above 580°C it decomposes to produce calcium oxide (CaO) and water.

Calcium oxide reacts with water to generate heat, which can be a hazard in the presence of flammable material. 10.4 Conditions to avoid

Protect from exposure to air and moisture to prevent transformation into calcium carbonate.

**10.5 Incompatible materials** 

Aluminium. Acids. Fluorine.

**10.6 Hazardous decomposition products** 

None

#### SECTION 11: Toxicological information

11.1 Reactivity

Calcium dihydroxide is classified as irritating to the skin and respiratory tract and poses a risk of serious eye damage.

- Acute toxicity

OralLD50 > 2,000 mg/kg weight (OECD 425, rat)DermalLD50 > 2,500 mg/kg weight (OECD 402, rabbit)By inhalationno data availableCalcium dihydroxide is not acutely toxic.

Classification for acute toxicity is not guaranteed.

Skin corrosion/irritation

Calcium hydroxide is irritating to skin (from in vivo studies, on rabbits). Based on available data, the substance is to be classified as irritating to skin.

#### - Serious eye damage / irritation

Calcium dihydroxide poses a serious risk of eye damage and is irritating to the skin (from in vivo studies, on rabbits). Based on experimental data, calcium dihydroxide requires classification as very irritating to eyes.

#### - Respiratory or skin sensitisation

No data available. Calcium dihydroxide is not considered a skin sensitiser, based on the nature of the effect (pH shift) and the need for calcium in human nutrition. Classification for sensitisation is not guaranteed.

- Germ cell mutagenicity

Bacterial reverse mutation assay (Ames test, OECD 471): Negative

Mammalian chromosome aberration test: Negative

Due to the enormous diffusion and essentiality of Ca and the physiological irrelevance of any pH shift caused by calcium dihydroxide in aqueous media, the substance is devoid of any genotoxic properties.

The classification of carcinogenicity is not guaranteed.

Reproductive toxicity

Calcium (administered as calcium carbonate) is not toxic to reproduction (experimental rat data). The pH effect of the oxide does not lead to an increased risk of reprotoxicity. Epidemiological data on humans support the lack of any reprotoxic potential of calcium dihydroxide.

In both animal studies and human clinical studies with various calcium salts, no reprotoxic effect was detected. Therefore, calcium dihydroxide is not reprotoxic or developmentally toxic.

Classification for reprotoxic properties according to Regulation (EC) 1272/2008 is not required.

#### - Single exposure toxicity

From data on humans, it can be concluded that calcium dihydroxide is irritating to the respiratory tract. As summarised and evaluated in the SCOEL recommendation (Anonymous, 2008), from data on humans calcium dihydroxide is classified as irritating to the respiratory tract [R37, Irritating to respiratory system; STOT SE 3 (H335 - May cause respiratory irritation)].

#### - Prolonged exposure toxicity

Oral calcium toxicity is determined by the maximum intake levels (UL) for adults determined by the Scientific Committee on Food (SCF), and these are:

UL = 2,500 mg/d, corresponding to 36 mg/kg bw/d (70 kg person) for calcium.

The toxicity of calcium dihydroxide via the skin is not considered relevant due to negligible absorption through the skin and due to local irritation as the primary cause of health hazards (pH shift).

The toxicity of calcium dihydroxide via the inhalation route (local effect, mucous membrane irritation) is determined by an 8-h TWA determined by the Scientific Committee on Occupational Exposure Limits (SCOEL) of 1 mg/m3 of respirable dust (see section 8.1).

Therefore no classification of calcium dihydroxide for prolonged exposure toxicity is necessary.

SECTION 12: Ecological information	
12.1 Toxicity	
LC50 (fish-96h):	LC50 (96h) for freshwater fish: 50.6 mg/l
	LC50 (96h) for marine fish: 457 mg/l
EC50 (daphnies-48h):	EC50 (48h) for freshwater invertebrates: 49.1 mg/l
	LC50 (96h) for marine invertebrates: 158 mg/l
IC50 (algae-72h) <sup>.</sup>	EC50 (72h) for freshwater algae: 184 57 mg/l
	NOEC (72h) for freshwater algae: 48 mg/l
Toxicity for micro-organisms	At high concentrations, through increasing temperature and pH
Toxicity for micro-organisms	calcium dihydroxide is used for disinfection of sewage effluents
Chronic tovicity for aquatic organisms:	NOEC (14d) for maring invertebrator: 22 mg/l
chronic toxicity for aquatic organisms:	NOEC (140) for marine invertebrates. 32 mg/r
Toxicity for soil organisms:	EC10/LC10 or NOEC for soil macro-organisms: 2,000 mg/kg soil
	aw ECTU/LCTU or NOEC for Soll micro-organisms: 12,000 mg/kg
	Sui uw
Toxicity for terrestrial plants:	NOEC (21d) for terrestrial plants: 1,080 mg/kg

General effects and further information:

Strong pH effect. Although the product is useful for correcting water acidity, an excess of more than 1 g/l can be dangerous for aquatic life. pH values > 12 decrease rapidly due to dilution and carbonation.

12.2 Persistence and biodegradability

Not relevant for inorganic substances. 12.3 Bioaccumulative potential

Not relevant for inorganic substances.

12.4 Mobility in soil

Calcium dihydroxide, which is moderately soluble in water, shows low mobility in most soils.

12.5 Results of PBT and vPvB assessment

Not relevant for inorganic substances.

12.6 Other adverse effects

None identified

SECTION 13: Disposal considerations 13.1 Waste treatment methods

Disposal of product/packaging Dispose of in accordance with current regulations

SECTION 14: Transport information
Calcium dihydroxide is not classified as dangerous for transport by road (ADR), rail (RID), or sea (IMDG / GGVSea).
IATA transportation (air) not regulated.
14.1 UN number
Not regulated.
14.2 UN shipping name
Not regulated.
14.3 Transport-related hazard classes
Not regulated.
14.4 Packing group
Not regulated.
14.5 Environmental hazards
Not regulated.
14.6 Special precautions for the users
There is no additional information
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not regulated.

SECTION 15: Regulatory information		
15.1 Substance-specific health, safety and environmental regulations and legislation		
Authorisations:	Not required	
Restrictions on use:	None	
Other EU regulations:	Calcium dihydroxide is NOT a substance included in the SEVESO Directive, nor is it an ozone depleting substance or a POP (Persistent Organic Pollutant) substance	
15.2 Chemical safety assessment		
No assessment of the chemica	al safety of this substance has been carried out	

### SECTION 16: Other information

The data is based on our most up-to-date knowledge but does not constitute a guarantee for any product specification and does not imply any contractual relationship with the recipient of the data sheet.	
16.1 Hazard indications	
H315: Causes skin irritation	
H318: Causes serious eye damage	
H335: May irritate respiratory tract	
16.2 Precautionary advice	
P310:	Keep out of the reach of children
P280:	Wear protective gloves/clothing/protect eyes and face
P305/P351:	IN THE EVENT OF CONTACT WITH EYES: Rinse thoroughly for several minutes
P310:	Immediately contact a POISON CENTRE or a doctor
P302/P352:	IN THE EVENT OF CONTACT WITH SKIN: Wash with plenty of soap and water
P261:	Avoid breathing in dust/fumes/gas/mist/vapours/aerosols
P304/P340:	IN THE EVENT OF CONTACT WITH SKIN: Carry the injured person out into the fresh
	air and keep him/her at rest in a position conducive to breathing
P501:	Dispose of the product/container at a waste collection point
ABBREVIATIONS:	
EC50:	Effective Concentration
LC50:	Lethal Concentration
LD50:	Lethal Dose
OEL:	Occupational exposure limit
PPE:	Personal protective equipment
PBT:	Persistent, bioaccumulative and toxic
vPvB:	Very persistent and very bioaccumulative
NOEC:	No observed effect concentration
PNEC:	Predicted no effect concentration
STEL:	Short-term exposure limit
TWA:	Time weighted average
16.3 Key literature references and sources for data	
None	

#### Notes for the user

The information contained in this data sheet is based on our knowledge available as of the date of the latest version. The user must ensure the suitability and completeness of the information in relation to the specific use of the product. This document should not be interpreted as a guarantee of any specific product properties.