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

Revision date: 26-04-2025 Version : 5 Print date: 26-04-2025

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

1.1 Product identifier

Product identifier : N757019
Name: ARCHI+ BIG

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

Relevant identified uses: Premieces in lime -based powder

1.3 Details of the supplier of the safety data sheet

Supplier: San Marco Group Spa
Address: Via Alta, 10
Postal code/City: 30020 - Marcon (VE)
Country: Italy
Telephone: Back office Forlì +39 0543 401840
E-mail (competent person): sicurezza.prodotti@sanmarcogroup.it

1.4 Emergency telephone number

Emergency phone number
Malta: Emergency number: 112 (24/7)
Luxembourg: (+352) 8002 5500 Free telephone number with a 24/7 access

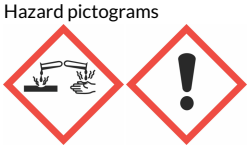
SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]
Skin Irrit. 2, H315
Eye Dam. 1, H318
Skin Sens. 1B, H317
resp. irrit. STOT SE 3, H335
Additional information
For full text of Hazard- and EU Hazard-statements: see SECTION 16.

2.2 Label elements

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



Signal word: Danger
Contains: calcium hydroxide; Portland Cement Clinker.
Hazard statements
H315 - Causes skin irritation.
H318 - Causes serious eye damage.
H317 - May cause an allergic skin reaction.
H335 - May cause respiratory irritation.
Precautionary statements
P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P280 - Wear protective gloves/protective clothing and eye protection/face protection.
P302 + P352 - IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332 + P313 - If skin irritation occurs: Get medical advice/attention.
P501 - Dispose of contents / container in accordance with national regulations.
Supplemental hazard information
This information is not available.

2.3 Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Hazardous ingredients

Name	Product identifier	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL, M-factor, ATE
calcium hydroxide	CAS No. : 1305-62-0 EC No.: 215-137-3 EU REACH No. : 01-2119475151-45-XXXX	15.0% <= C < 20.0%	Skin Irrit. 2, H315 / Eye Dam. 1, H318 / resp. irrit. STOT SE 3, H335 / Substance with a community workplace exposure limit	
Portland Cement Clinker	CAS No. : 65997-15-1 EC No.: 266-043-4	5.0% <= C < 7.0%	Skin Irrit. 2, H315 / Eye Dam. 1, H318 / Skin Sens. 1B, H317 / resp. irrit. STOT SE 3, H335 /	

Additional information

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Seek medical advice immediately (poison centre).

Following inhalation :

In case of inhaling spray mist, consult a doctor immediately and show him packing or label.

Following skin contact :

After contact with skin, wash immediately with plenty of water and soap.
Remove contaminated, saturated clothing immediately.
Wash thoroughly the body (shower or bath).

After eye contact :

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
Protect uninjured eye.

Following ingestion :

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

There are no specific information on symptoms and effects caused by the product. Delayed effects: based on the information currently available, there are no known cases of delayed effects following exposure to this product.

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

Water

Carbon dioxide (CO_2)

General information: cool with jets of water the containers to avoid the decomposition of the product and the development of substances potentially dangerous for health. Always wear the equipment complete with fire protection. Collect the shutdown waters that must not be downloaded in the sewers. Dispose of the contaminated water used for the extinction and residue of the fire according to the current regulations.

Equipment: Normal clothing for the fight against fire, such as an open circuit compressed air car rescue (EN 137), complete anti -fiamema (EN469), anti -fiamma gloves (EN 659) and boots for firefighters (I have A29 or A30).

Unsuitable extinguishing media

No special measures are necessary.

5.2 Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.
Burning produces heavy smoke.

5.3 Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.
Move undamaged containers from immediate hazard area if it can be done safely.
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Avoid dust formation.

Use personal protection equipment.

Use appropriate respiratory protection.

Remove persons to safety.

6.1.2 For emergency responders

Use personal protection equipment.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.2 Environmental precautions

Do not allow to enter into soil/subsoil.
Do not allow to enter into surface water or drains.
Retain contaminated washing water and dispose it.
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

6.3.1 For containment

Suitable material for taking up:

Absorbing material, organic

Sand

6.3.2 For cleaning up

Wash with plenty of water.

6.3.3 Other information

No data available

6.4 Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

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7.1 Precautions for safe handling

7.1.1 Protective measures

Always close containers tightly after the removal of product.
Do not breathe dust.

7.1.2 Advices on general occupational hygiene

Wash hands before breaks and after work.
Wash hands and face before breaks and after work and take a shower if necessary.
Used working clothes should not be worn outside the work area.
When using do not eat, drink, smoke, sniff.
When using do not smoke.
Avoid contact with skin, eyes and clothes.
Remove contaminated, saturated clothing.
Wash hands and face before breaks and after work and take a shower if necessary.

7.1.3 Measures to prevent aerosol and dust generation

No special measures are necessary.

7.1.4 Environmental precautions

No special measures are necessary.

7.1.5 Measures to prevent fire

No special fire protection measures are necessary.

7.2 Conditions for safe storage, including any incompatibilities

7.2.1 Technical measures and storage conditions

Keep in a cool, well-ventilated place.

7.2.2 Requirements for storage rooms and vessels

This information is not available.

7.2.3 Packaging materials:

This information is not available.

7.2.4 Storage class

This information is not available.

7.3 Specific end use(s)

7.3.1 Recommendation

Observe instructions for use.

7.3.2 Industrial sector specific solutions

This information is not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

calcium hydroxide - CAS: 1305-62-0

Type	Country	mg/m³	ppm	Test duration	mg/m³	ppm	Test duration	Remark	Source
UE		1.0		8h	4.0			Respirable fraction	
ACGIH		5.0		8h				Eye, URT and skin irr	
WEL		51.0		8h	-4.0		15min	Respirable fraction	EH40/2005 Workplace exposure limits

Portland Cement Clinker - CAS: 65997-15-1

Type	Country	mg/m³	ppm	Test duration	mg/m³	ppm	Test duration	Remark	Source
ACGIH		1.0		8h				(E,R), A4 - Pulm func, resp symptoms, asthma	
WEL		10.0		8h			15min	inhalable dust	EH40/2005 Workplace exposure limits

Monitoring and observation processes

This information is not available.

DNEL values

calcium hydroxide - CAS: 1305-62-0

DNEL worker	Exposure route	Exposure time	Type	Value	Remark
Workers	Inhalation	short-term	local	4.0 mg/m³	
Consumers	Inhalation	short-term	local	4.0 mg/m³	
Workers	Inhalation	long-term	local	1.0 mg/m³	
Consumers	Inhalation	long-term	local	1.0 mg/m³	

Portland Cement Clinker - CAS: 65997-15-1

DNEL worker	Exposure route	Exposure time	Type	Value	Remark
Workers	Inhalation			0.001 mg/L	

PNEC

calcium hydroxide - CAS: 1305-62-0

Type	Value	Remark
aquatic, freshwater	0.49 mg/L	
aquatic, marine water	0.32 mg/L	
sewage treatment plant	3.0 mg/L	
soil	1080.0 mg/kg	

Biological limit values

This information is not available.

8.2 Exposure controls

Appropriate engineering controls

See section 7 of the safety data sheet.

Personal protection equipment

Skin protection

Body protection:

For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).
Care should be taken in the selection of protective clothing to ensure that inflammation and irritation of the skin at neck and wrists through contact with the product are avoided.
Breakthrough times and swelling properties of the material must be taken into consideration.

Hand protection

Tested protective gloves must be worn
The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Eye/face protection

Face protection shield
Do not wear contact lenses.

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Thermal hazards

This information is not available.

Environmental exposure controls

This information is not available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Powder
Colour	white

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Odour	odourless
Melting point	This information is not available.
Freezing point	Not applicable
softening point	Not applicable
Boiling point or initial boiling point and boiling range	Not applicable
flammability	Not applicable
Lower and upper explosion limit	Not applicable
Flash point	Not applicable
pH	11.0 >= pH <= 14.0
Auto-ignition temperature	Not applicable
Decomposition temperature	Not applicable
Viscosity	Not applicable
Water solubility	easily soluble
Fat solubility (Oil)	Not applicable
Solubility (Ethanol)	Not applicable
Partition coefficient n-octanol/water (log value)	This information is not available.
Vapour pressure	Not applicable
Density	Not applicable
Relative vapour density	Not applicable
refraction index	This information is not available.
Particle size	This information is not available.
Particle size distribution range	This information is not available.
Shape and aspect ratio	This information is not available.
Aggregation and agglomeration state	This information is not available.

Specific surface area	This information is not available.

9.2 Other information

9.2.1 Information with regard to physical hazard classes
This information is not available.

9.2.2 Other safety characteristics
This information is not available.

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is considered to be non-reactive under normal use conditions.

10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

No known hazardous reactions.
Further risks: see subsection 2.3.

10.4 Conditions to avoid

Stable under recommended storage and handling conditions.
Further information on storage conditions: see subsection 7.2.

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous decomposition products

Decomposition products in case of fire: see section 5.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Mixtures

Acute toxicity
Based on available data, the classification criteria are not met.

Skin corrosion/irritation
Assessment/classification: Skin Irrit. 2/H315

Serious eye damage/irritation
Assessment/classification: Eye Dam. 1/H318

Respiratory or skin sensitisation
Assessment/classification: Skin Sens. 1B/H317

Germ cell mutagenicity
Based on available data, the classification criteria are not met.

Carcinogenicity
Based on available data, the classification criteria are not met.

Reproductive toxicity
Based on available data, the classification criteria are not met.

STOT-single exposure
Assessment/classification: resp. irrit. STOT SE 3/H335

STOT-repeated exposure
Based on available data, the classification criteria are not met.

Aspiration hazard
Based on available data, the classification criteria are not met.

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Substances

calcium hydroxide - CAS: 1305-62-0

Acute toxicity

Method	Species:	Exposure route	Exposure time	Value	Source	Notes	Considerations
LD50	Rat	oral		> 2000.0 mg/kg		OECD 402	
LD50	Rabbit	dermal		> 2500.0 mg/kg		Oecd 425	

11.2 Information on other hazards

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Other information

This information is not available.

SECTION 12: Ecological information

12.1 Toxicity

Do not allow uncontrolled discharge of product into the environment.

There are no data available on the mixture itself.

The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the single components (see section 3).

Mixtures

There are no data available on the mixture itself.

Substances

calcium hydroxide - CAS: 1305-62-0

Acute (short-term) fish toxicity

Effective dose	Species	Test duration	Value	Notes	Method	Source	Considerations
LC50		96h	50.6 mg/L	tap water			
LC50		96h	457.0 mg/L	see water			

Acute (short-term) toxicity to aquatic invertebrates

Effective dose	Species	Test duration	Value	Notes	Method	Source	Considerations
EC50		48h	49.1 mg/L	tap water			
LC50		96h	158.0 mg/L	see water			

Acute (short-term) toxicity to algae and cyanobacteria

Effective dose	Species	Test duration	Value	Notes	Method	Source	Considerations
EC50		72h	184.57 mg/L	tap water			

Chronic (long-term) toxicity to algae and cyanobacteria

Effective dose	Species	Test duration	Value	Notes	Method	Source	Considerations
NOEC		72h	48.0 mg/L	see water			

Chronic (long-term) toxicity to aquatic invertebrate

Effective dose	Species	Test duration	Value	Notes	Method	Source	Considerations
NOEC		14d	32.0 mg/L	see water			

Terrestrial toxicity

Effective dose	Species	Test duration	Value	Notes	Method	Source	Considerations
NOEC			2000.0 mg/kg	macroorganism			
NOEC			12000.0 mg/kg	microorganism			

Toxicity to other aquatic plants/organisms

Effective dose	Species	Test duration	Value	Notes	Method	Source	Considerations
NOEC		21d	1080.0 mg/kg	days			

12.2 Persistence and degradability

Mixtures

This information is not available.

Substances

This information is not available.

12.3 Bioaccumulative potential

Mixtures

This information is not available.

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Substances

This information is not available.

12.4 Mobility in soil

Mixtures

This information is not available.

Substances

This information is not available.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7 Other adverse effects

This information is not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste codes/waste designations according to EWC/AVV

Packing which cannot be properly cleaned must be disposed of.
Consult the appropriate authorities about waste disposal.
NO English translation

13.1.1 Disposal operations

Consult the appropriate authorities about waste disposal.
Packing which cannot be properly cleaned must be disposed of.
Delivery to an approved waste disposal company.

13.1.2 Other disposal recommendations

Recycle according to official regulations.

SECTION 14: Transport information

14.1 UN number

All transport carriers	No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name

All transport carriers	No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)

All transport carriers	No dangerous good in sense of these transport regulations.

14.4 Packing group

All transport carriers	No dangerous good in sense of these transport regulations.

14.5 Environmental hazards

All transport carriers	No dangerous good in sense of these transport regulations.

14.6 Special precautions for user

All transport carriers	No dangerous good in sense of these transport regulations.

14.7 Maritime transport in bulk according to IMO instruments

No transport as bulk according to IBC Code.

SECTION 15: Regulatory information

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

EU legislation

Regulation (EC) No 1907/2006 and subsequent amendments

Regulation (EC) No 1272/2008 (CLP) and subsequent amendments

Latest amendment

Commission delegated Regulation (EU) 2024/2865

Regulation (EU) No. 2020/878

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds

Not relevant

Other regulations (EU)

This information is not available.

Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)

Mixtures

Use restriction according to REACH annex XVII, no.: none

Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer

not relevant

Regulation (EU) 2019/1148 (marketing and use of explosives precursors)

not relevant

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]

Hazard categories: This product is not classified according to Directive 2012/18/EU.

National regulations

This information is not available.

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Indication of changes

This safety data sheet has been completely updated

Abbreviations and acronyms

Abbreviations and acronyms	Description
ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AOX	Adsorbable Organic halogen compounds
ATE	Acute Toxicity Estimate
ATEmix	Acute Toxicity Estimate for Mixtures
BCF	Bioconcentration Factor
BLV	Biological Limit Value
BOD	Biochemical (Biological) Oxygen Demand
bw	body weight
CAS	Chemical Abstracts Service
CK	Peak concentration
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic, toxic for Reproduction

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CO2	Carbon dioxide
COD	Chemical Oxygen Demand
COSHH	Control of Substances Hazardous to Health
CSA	Chemical Safety Assessment
CSR	Chemical Safety Report
DGR	Dangerous Goods Regulations (IATA)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
DOC	Dissolved Organic Carbon
DU	Downstream User
EbC50	Effective Concentration 50 % reduction in biomass
EC	European Community
EC10	Effective Concentration 10%
EC50	Effective Concentration 50%
ECHA	European Chemicals Agency
EINECS	European Inventory of Existing Commercial Chemical Substances
EL50	Effective Loading 50 %
ELINCS	European Inventory of Existing Commercial Chemical Substances
EmS	emergency procedures
EN	European Standard
ErC10	Effective Concentration 10 % reduction in growth rate
ErC50	Effective Concentration 50 % reduction in growth rate
ES	Exposure Scenario
EU	European Union
EWC	European Waste Catalogue
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IATA	International Air Transport Association
IC50	Inhibition Concentration 50 %
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International nomenclature of cosmetic ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
KOC	Partition coefficient n-octanol/water
LC50	Lethal (fatal) Concentration 50%
LD50	Lethal (fatal) Dose 50%
LDL0	Lowest Lethal (fatal) Dose
LL50	Lethal Loading 50 %
LOAEC	Lowest Observed Adverse Effect Concentration
LOAEL	Lowest Observed Adverse Effect Level
LOEC	Lowest Observable Effect Concentration
LOEL	Lowest Observable Effect Level
M-factor	Multiplication factor
NOAEC	no observed adverse effect concentration
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
NOEL	No Observed Effect Level
NOELR	No Observed Effect Level
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational exposure limit (EU)
PBT	persistent and bioaccumulative and toxic
PEC	Predicted Environmental Concentration
PEL	Permissible Exposure Limit
PNEC	Predicted No Effect Concentration
PROC	Process Category
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail

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SCL	Specific concentration limit
STEL	Short-term Exposure Limit
STOT	Specific Target Organ Toxicity
STP	sewage treatment plant
SU	use category
SVHC	substance of very high concern
ThCO2	Theoretical carbon dioxide amount
TLV	Threshold Limit Value
TWA	Eight-hour time-weighted average exposure limit value
UN	United Nations
VOC	Volatile organic compounds

Key literature references and sources for data

Regulation (EC) No. 1272/2008 on the classification, labelling, and packaging (Classification, Labelling and Packaging) of substances and mixtures.
Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/UE.
Guidance on the compilation of safety data sheets by ECHA
European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
International Maritime Dangerous Goods Code (IMDG)
IATA Dangerous Goods Regulations (IATA DGR)
The ED Lists (List I: Substances identified as endocrine disruptors at EU level, List II: Substances under evaluation for endocrine disruption under an EU legislation, List III: Substances considered, by the evaluating National Authority, to have endocrine disrupting properties)

List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Classification according to Regulation (EC) No 1272/2008 [CLP]	**List of relevant hazard statements and/or precautionary statements from sections 2 to 15**
Skin Irrit. 2, H315	Causes skin irritation.
Eye Dam. 1, H318	Causes serious eye damage.
Skin Sens. 1B, H317	May cause an allergic skin reaction.
resp. irrit. STOT SE 3, H335	May cause respiratory irritation.

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Classification according to Regulation (EC) No 1272/2008 [CLP]	**Classification procedure**
Skin Irrit. 2, H315	
Eye Dam. 1, H318	
Skin Sens. 1B, H317	
resp. irrit. STOT SE 3, H335	

Disclaimer: The information in this safety data sheet (SDS) applies only to the specified product, unless otherwise specified, for the mixture of this product and other substances, etc. Circumstances do not apply. This SDS only provides information on product safety for those who have received proper professional training. Users of this SDS must make independent judgments on the applicability of this SDS under special conditions of use. In special occasions, the writer of this SDS will not be responsible for any damage caused by using this SDS.