

Safety data sheet

According to 1907/2006/EC, Article 31

Printing date 15.01.2024

Version number 4 (replaces version 3)

Revision: 11.01.2024

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

1.1 Product identifier

Trade name:**Trade names:**

Swisspearl products: Carat, Carat HR, Nobilis, Nobilis HR, Avera, Planea, Terra, Reflex, Vintago, Incora, Gravial, Texial.

UFI: XN10-70MC-K00R-E59F

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

Application of the substance / the mixture:

Cement composite panels with or without water-based acrylic coating on front and rear side for cladding façades, roofs and in-door walls and ceilings

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Swisspearl (Switzerland) AG

Eternitstrasse 3

CH-8867 Niederurnen

Telefon: +41 (0) 55 / 617 11 11

Telefax: +41 (0) 55 / 617 15 44

Further information obtainable from: sds@swisspearl.com

1.4 Emergency telephone number:

Tox Info Suisse

emergency number 24h:

+41 (0)44 251 51 51 (from abroad) Short-No. 145 (from Switzerland only)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

This product is an article, therefore, the product does not have to be classified and labelled according to the GHS-system. The classification below refers to the dust generated when processing the panels.



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

A safety data sheet is legally not required for articles. This safety data sheet was prepared for information purposes.

The product is classified and labelled according to the CLP regulation.

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Hazard pictograms



GHS05 GHS07

Signal word Danger

Hazard-determining components of labelling:

Cement, portland, chemicals

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

- P201 Obtain special instructions before use.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- P308+P313 IF exposed or concerned: Get medical advice.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

Processing the panels may release respirable crystalline silica. Inhalation of dust containing quartz, in particular the fine (respirable size) dust fraction, in high concentrations or over prolonged periods of time can lead to lung disease (silicosis) and an increased risk of lung cancer.

Results of PBT and vPvB assessment

- PBT:** According to current knowledge, the product contains no PBT substance.
- vPvB:** According to current knowledge, the product contains no vPvB substance.

Determination of endocrine-disrupting properties

Taking into account the current state of scientific knowledge, no data on endocrine disrupting properties of the product are available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description:

Cement composite panels based on cured portland cement, additives and cellulose fibre and organic synthetic fibres
 In case of coated panels the percentage of the dried coating in the final panels is <1% w/w.

Dangerous components:

CAS: 65997-15-1 EINECS: 266-043-4 RTECS: VV 8770000	Cement, portland, chemicals ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	50-<100%
CAS: 9004-34-6 EINECS: 232-674-9	Cellulose substance with a Community workplace exposure limit	1-<2.5%
CAS: 14808-60-7 EINECS: 238-878-4 RTECS: VV 7330000	Quartz (SiO2) substance with a Community workplace exposure limit	0.1-<1%

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CAS: 10043-35-3
 EINECS: 233-139-2
 Index number: 005-007-00-2
 RTECS: ED 4550000
 Reg.nr.: 01-2119486683-25-xxxx

boric acid
 Repr. 1B, H360FD
 Note: 11

<0.1%

SVHC:

The product does not contain any substance of very high concern according to REACH in concentrations ≥ 0.1 %.

Additional information:

For the wording of the listed hazard phrases refer to section 16.
 Processing the panels may release respirable crystalline silica.

SECTION 4: First aid measures

4.1 Description of first aid measures**General information:**

The information below only applies after exposure to dust generated from processing the article.

After inhalation:

In case of unconsciousness place patient stably in side position for transportation.

Get medical advice/attention.

After skin contact:

Wash with plenty of water and soap.

If skin irritation or rash occurs: Get medical advice/attention.

After eye contact:

Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER/doctor.

After swallowing: Get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye damage.

May cause respiratory irritation.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media**Suitable extinguishing agents:**

The product itself does not burn, it is neither flammable nor explosive.

Fire classification according to ASTM E 136 non-combustible and EN

13501-1 non-combustible class A2-s1, d0.

For safety reasons unsuitable extinguishing agents:

No unsuitable extinguishing agent known.

Adapt the extinguishing measures to the surroundings.

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5.2 Special hazards arising from the substance or mixture

Explosion: Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

5.3 Advice for firefighters

Protective equipment: No special measures required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

The information below only applies when the panels are processed mechanically.
Avoid formation of dust.
Avoid dispersal of dust in the air.

6.2 Environmental precautions Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up

Moisten to avoid dust formation.
Ensure adequate ventilation.
Dispose of the material collected according to regulations.

6.4 Reference to other sections

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

The information below only applies when the panels are processed mechanically.
Machining in accordance with specifications in technical product documentation.
Thorough dedusting.
Ensure good ventilation/exhaustion at the workplace.
Wash contaminated clothing before reuse.
Avoid breathing dust/fume/gas/mist/vapours/spray.
See further information in section 8.

Information about fire - and explosion protection:

Risk of dust explosion cannot be excluded.
Take measures to prevent dust explosion during/after processing (drilling, cutting, sanding, etc.) the panels.
Keep away from all ignition sources including heat, sparks and flame.
Minimize dust generation and accumulation.
Minimize the escape of dust from process equipment or ventilation systems.
Use dust collection systems and filters.
Clean dust residues at regular intervals.
Only use vacuum cleaners approved for dust collection.
Control static electricity, including bonding of equipment to ground.

The information above is based on OSHA Safety and Health Information Bulletin on Combustible Dust in Industry: Preventing and Mitigating the Effects of Fire and Explosions, SHIB 07-31-2005, containing a summary of dust explosion control from NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids.

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7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Store in dry conditions.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

Follow good practice guide on crystalline silica:

Agreement on Workers Health Protection through the Good Handling and Use of Crystalline Silica and Products containing it (2006/C 279/02). The Annexes to this Agreement may be found on www.nepsi.eu.

Annex I: Good Practice Guide on Workers Health Protection through the Good Handling and Use of Crystalline Silica and Products Containing it

<http://www.nepsi.eu/good-practice-guide> (available in all official EU languages)

65997-15-1 Cement, portland, chemicals

MAK (Switzerland)	Long-term value: 5 e mg/m ³ S;Staub
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AGW (Germany)	Long-term value: 5 E mg/m ³ DFG
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9004-34-6 Cellulose

MAK (Switzerland)	Long-term value: 3 a mg/m ³
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14808-60-7 Quartz (SiO₂)

BOELV (EU)	Long-term value: 0.1* mg/m ³ *respirable fraction
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MAK (Switzerland)	Long-term value: 0.15 a mg/m ³ P C1a SSc;
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MAK (Germany)	alveolengängige Fraktion
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10043-35-3 boric acid

MAK (Switzerland)	Short-term value: 1.8 e mg/m ³ Long-term value: 1.8 e mg/m ³ R1bd R1bf SSb;
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AGW (Germany)	Long-term value: 0.5* mg/m ³ 2(I);*einatembare; AGS, Y, 10
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Additional information:

Concentration of 10043-35-3 (boric acid) in the product is <0.1%.

Legend for abbreviations:

- S: sensitizing
- P: provisory, value is in re-evaluation based on new scientific evidence
- C1a: Substances that are known human carcinogens. Classification as a carcinogen is made mainly on the basis of evidence in humans.
- SSc: No damage is expected to the unborn child if the workplace limit value is respected.
- SSb: Damage to the unborn child cannot be excluded even if the workplace limit value is respected.
- a: respirable dust
- e: inhalable dust

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The lists valid during the making were used as basis.

The professional use of this product by young people is restricted or prohibited altogether. The corresponding legal bases and precise regulations are set out in section 15.

8.2 Exposure controls

Appropriate engineering controls

Use machining devices with low dust emissions (dust extraction).

When using handheld power saws (any blade diameter): Use saw equipped with integrated water delivery system that continuously feeds water to the blade. Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

Avoid contact with the skin, eyes and clothes.

Ensure good ventilation/exhaustion at the workplace.

Wash contaminated clothing before reuse.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Respiratory protection:



Dust mask must be worn when handled with cutting devices.

Use dust mask according to EN 149 with filter class FFP3.

Respiratory protection must be compliant with the specifications of the Regulation (EU) 2016/425 and be in accordance with the EN standards resulting thereof.

Hand protection:



Protective gloves

Wear gloves for the protection against mechanical hazards according to EN 388.

When panels are handled with cutting devices:

Material of gloves

Protective gloves must be compliant with the specifications of the Regulation (EU) 2016/425 and be in accordance with the standards EN374. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Eye/face protection

Safety goggles have to be worn while using cutting devices.



Tightly sealed goggles

Protective goggles must be compliant with the specifications of the Regulation (EU) 2016/425 and be in accordance with the standard EN166 (EU) or NIOSH (US).

Environmental exposure controls Do not allow to enter sewers/ surface or ground water.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state:	Solid
Colour:	According to product specification
Odour:	Characteristic
Odour threshold:	Not determined.
Melting point/freezing point:	Not determined.
Boiling point or initial boiling point and boiling range:	Not determined.
Flammability:	The product is not flammable.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	Not applicable.
Auto-ignition temperature:	Not applicable.
Decomposition temperature:	Not determined.
pH:	10-14
Viscosity	
Kinematic:	Not determined.
Dynamic:	Not determined.
Solubility	
water:	Insoluble.
Partition coefficient n-octanol/water (log value):	Not applicable.
Vapour pressure:	Not determined.
Density and/or relative density	
Density:	Not determined.
Relative density:	Not determined.
Vapour density:	Not determined.
Particle characteristics:	.

9.2 Other information

Appearance

Form: Solid

Important information on protection of health and environment, and on safety

Ignition temperature:	The product is not self-igniting.
Explosive properties:	The product does not present an explosion hazard.
Change in condition	
Softening point/range:	Not determined.
Oxidising properties:	Not determined.
Evaporation rate:	Not determined.

9.2.1 Information with regard to physical hazard

classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void

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Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability This product is stable under the specified conditions of storage, shipment and use.
Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid

During mechanical processing:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5 Incompatible materials No further relevant information available.

10.6 Hazardous decomposition products None.

SECTION 11: Toxicological information

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

The information below only applies after exposure to dust generated from processing the article.

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

LD/LC50 values relevant for classification:

No further relevant information available.

10043-35-3 boric acid

Oral	LD50	2,660 mg/kg (rat)
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Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation Causes serious eye damage.

Respiratory or skin sensitisation May cause an allergic skin reaction.

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

Carcinogenicity

Processing (drilling, cutting, sanding, etc.) of this product may lead to the release of quartz containing dust.

Inhalation of dust containing quartz, in particular the fine (respirable size) dust fraction, in high concentrations or over prolonged periods of time can lead to lung disease (silicosis) and an increased risk of lung cancer.

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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 May cause respiratory irritation.

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.

Additional toxicological information:

Dust can be irritating to skin, eye and the respiratory tract and may be sensitizing.

Sensitizing.

11.2 Information on other hazards

Endocrine disrupting properties

Taking into account the current state of scientific knowledge, no data on endocrine disrupting properties of the product are available.

None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Based on the ingredients not classified as harmful for the environment.

12.2 Persistence and degradability Non degradable.

12.3 Bioaccumulative potential Not applicable.

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: According to current knowledge, the product contains no PBT substance.

vPvB: According to current knowledge, the product contains no vPvB substance.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Additional ecological information:

General notes: Must not reach sewage water or drainage ditch undiluted or unneutralised.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation:

Residues of the fiber cement panels can be recycled at a cement plant if in accordance with local regulation.

European waste catalogue

HP4	Irritant - skin irritation and eye damage
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

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HP13 Sensitising

SECTION 14: Transport information

14.1 UN number or ID number

ADR/ADN, IMDG, IATA Void

14.2 UN proper shipping name

ADR/ADN, IMDG, IATA Void

14.3 Transport hazard class(es)

ADR/ADN, ADN, IMDG, IATA
Class Void

14.4 Packing group

ADR/ADN, IMDG, IATA Void

14.5 Environmental hazards

Marine pollutant: No

14.6 Special precautions for user

Not applicable.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

Transport/Additional information:

Not dangerous according to the above specifications.

UN "Model Regulation":

Void

SECTION 15: Regulatory information

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)

None of the ingredients is listed.

LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)

The product does not contain any of the substances listed in concentrations ≥ 0.1 % w/w.

None of the ingredients is listed.

REGULATION (EC) No 1907/2006 (ANNEX XVII)

According to Annex XVII, paragraph 47 of the EC Regulation 1907/2006 (REACH), cements and cement-containing preparations are subject to a prohibition of use and placing on the market.

1. Cement and cement-containing mixtures shall not be placed on the market, or used, if they contain, when hydrated, more than 2 mg/kg (0,0002 %) soluble chromium VI of the total dry weight of the cement.

2. If reducing agents are used, then without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of cement or cement-containing mixtures is visibly, legibly and indelibly marked with information on the packing date, as well as on the storage conditions and the storage period appropriate to

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maintaining the activity of the reducing agent and to keeping the content of soluble chromium VI below the limit indicated in paragraph 1.

3. By way of derogation, paragraphs 1 and 2 shall not apply to the placing on the market for, and use in, controlled closed and totally automated processes in which cement and cement-containing mixtures are handled solely by machines and in which there is no possibility of contact with the skin.

4. The standard adopted by the European Committee for Standardization (CEN) for testing the water-soluble chromium (VI) content of cement and cement-containing mixtures shall be used as the test method for demonstrating conformity with paragraph 1.

The manufacturers of cement have committed themselves within the framework of the "European Agreement on the Protection of the Health of Workers through the Good Handling and Use of Crystalline Silica and Products Containing it (NePSi)" to introduce so-called "Good Practices" for safe handling (<http://www.nepsi.eu/good-practice-guide.aspx>).

Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals (PIC)

None of the ingredients is listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

REGULATION (EC) No 1005/2009 on substances that deplete the ozone layer – ANNEX I (Ozone-depleting potential)

None of the ingredients is listed.

National regulations:

Information about limitation of use:

COUNCIL DIRECTIVE 94/33/EC of 22 June 1994 on the protection of young people at work:

Employment restrictions concerning juveniles must be observed.

Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous to water. (Germany)

Substances of very high concern (SVHC) according to REACH, Article 57

The product does not contain any substance of very high concern according to REACH in concentrations ≥ 0.1 % w/w.

None of the ingredients is listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

The information are voluntary product information as the product is an article.

The information and data given in this safety data sheet are based on the current state of our knowledge at the publishing date indicated in this safety data sheet. The safety data sheet shall give you indications for the safe storage, handling, transport and disposal of the mentioned product. The information and data do not apply for any other products than the one declared in this safety data sheet. The information and data in this safety data sheet provides the safety requirements, but do not represent an assurance of product specifications.

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For detailed information on use please refer to the official technical documentation for this product. This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

An asterisk (*) in the left hand margin indicates an amendment from the previous version.

Relevant phrases

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H360FD May damage fertility. May damage the unborn child.

Department issuing SDS:

R&D, Swisspearl (Switzerland) AG
Phone: +41 55 617 15 41 Fax: +41 55 617 12 23
E-mail: sds@swisspearl.com

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Repr. 1B: Reproductive toxicity – Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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