

Material Safety Data Sheet

acc. to ISO/DIS 11014

SWISSPEARL®

Printing date 02/06/2009

USS-002e

Reviewed on 02/06/2009

1 Identification of substance

- **Product details**
- **Trade name:** SWISSPEARL® CARAT, REFLEX, XPRESSIV, NOBILIS, PLANEA, TERRA
- **Application of the substance / the preparation** Fibre Cement Composite Panel
- **Manufacturer/Supplier:**
Eternit (Switzerland) AG
CH-8867 Niederurnen
Phone +41 55 617 11 11
Fax +41 55 617 12 23
- **Information department:** info@eternit.ch
- **Emergency information:**
Emergency information: Phone: +41 55 617 11 11
Technology and Test Centre (TPC): Phone: +41 55 617 15 41

2 Composition/Data on components

- **Chemical characterization**
- **Description:**
Hardened cement with integrated layers of pulp and synthetic fibres and mineral aggregates. Penetrated with dye or coated with acrylic paint dispersion.

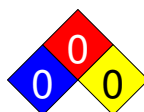
- **Dangerous components:**

68475-76-3	Cement, portland, chemicals	50-100%
1305-62-0	calcium dihydroxide	2.5-5%

- **Additional information:** All concentrations are given as mass percentage (weight/weight).

3 Hazards identification

- **Hazard description:** Not applicable.
- **Information pertaining to particular dangers for man and environment:**
The finished product is an article, therefore, the product does not have to be classified and labelled.
- **Classification system:**
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 0
Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = 0
Fire = 0
Reactivity = 0

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4 First aid measures

- **General information:** No special measures required.

5 Fire fighting measures

- **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.
Use fire fighting measures that suit the environment.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** No special measures required.
- **Measures for cleaning/collecting:** Pick up mechanically.
- **Additional information:** No dangerous substances are released.

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
Machining in accordance with specifications in technical product documentation.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Observe the directions in the product documentation.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:**
Use machining devices with low dust emissions (dust extraction).

- **Components with limit values that require monitoring at the workplace:**

68475-76-3 Cement, portland, chemicals (50-100%)

PEL	50 mppcf or 15* 5** mg/m ³ *total dust **respirable fraction
REL	10* 5** mg/m ³ *total dust **respirable fraction
TLV	(10) NIC-1* mg/m ³ (E); NIC-A4;*as respirable fraction

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1305-62-0 calcium dihydroxide (2.5-5%)

PEL	15* 5** mg/m ³ *total dust **respirable fraction
REL	5 mg/m ³
TLV	5 mg/m ³

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment:**
- **Breathing equipment:** Dust mask must be worn when machining with cutting devices.
- **Protection of hands:** Work gloves from leather must be worn for machining.
- **Eye protection:** Safety goggles must be worn for machining.

9 Physical and chemical properties

· General Information

Form:	Solid
Color:	According to product specification
Odor:	Odorless

· Change in condition

Melting point/Melting range: Not applicable.
Boiling point/Boiling range: Not applicable.

· **Flash point:** Not applicable.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Density:** 1.7 - 1.9 g/cm³

· Solubility in / Miscibility with

Water: Insoluble.

· **pH-value:** 11-13 (25°C)

· Solvent content:

Organic solvents: 0.0 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous products of decomposition:** None.

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.

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Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information

- **Information about elimination (persistence and degradability):** Non degradable.
- **Behavior in environmental systems:**
- **Mobility and bioaccumulation potential:** Not applicable.

13 Disposal considerations

- **Product:**
- **Recommendation:**
Dispose of material as inert, non-metallic mineral in conformance with local and national regulations.
Quality of inert material: waste code EAK 17 01 01, waste from construction, concrete, fibre cement
U-factor: 1.30
- **Uncleaned packagings:**
- **Recommendation:** Not applicable.

14 Transport information

- **DOT regulations:**
- **Hazard class:** -
- **Land transport ADR/RID (cross-border):**
- **ADR/RID class:** -
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -
- **Transport/Additional information:** Not dangerous according to the above specifications.

15 Regulations

- **Sara**
- **Section 355 (extremely hazardous substances):**
None of the ingredient is listed.
- **Section 313 (Specific toxic chemical listings):**
None of the ingredients is listed.
- **TSCA (Toxic Substances Control Act):**
All ingredients are listed.

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- **Proposition 65**

- **Chemicals known to cause cancer:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

- **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

- **Carcinogen categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

- **Product related hazard informations:** No markings required.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Recommended restriction of use**

The product must not be used for any purpose other than that specified in section 1 without written consent.

- **Department issuing MSDS:**

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