

SAFETY DATA SHEET ABSOL (1907/2006/EC)

1 IDENTIFICATION OF THE MIXTURE AND THE COMPANY

- 1.1 **Identification of the product:** ABSOL
- 1.2 **Utilization:** Oil binder TYPE III R and chemical binder for bases and aqueous polar liquids, and for combustible, flammable and non-polar organic liquids.
- 1.3 **Company:** Yxhult Miljö AB
Norra Strandgatan 3, SE-703 61 Örebro, Sweden
Contact: Torbjörn Gustafsson
Telephone: +46 (0)19-58 60 52
- 1.4 **E-mail of a competent person responsible for SDS in the EU:** reach@xella.com
- 1.5 **Emergency telephone:** European emergency number: Tel.: 112

2 HAZARDS IDENTIFICATION

- 2.1 **Classification according to Regulation No. 1272/2008/EC:** The article is not subject to classification/labelling requirements.
- 2.2 **Adverse human health effects/environmental effects:** In case appropriate application: none. During handling and storage of the product dust formation has to be avoided.
- 2.3 **Other hazards:** Please consider the information provided in this Safety Data Sheet. The product does not fulfil the criteria for PBT- and vPvB-substances given in Annex XIII of Regulation 1907/2006/EC.

3 COMPOSITION / INFORMATION ON INGREDIENTS

Table 1: Composition / information on ingredients.

Component	Content (wt.-%) ¹	Registration-no.	EINECS-no.	CAS-no.
Calciumsilicatehydrate, mainly tobermorite $(\text{CaO})_5 \cdot (\text{SiO}_2)_6 \cdot (\text{H}_2\text{O})_5$	60–80	–	–	1319-31-9
Embedded sand, being a filler containing quartz (SiO_2)	20–30 15–30	– –	– 238-878-4	– 14808-60-7
Calcium sulfate phases indicated as $[\text{SO}_4]^{2-}$, i.e. gypsum $(\text{CaSO}_4 \cdot 2\text{H}_2\text{O})$ or anhydrite (CaSO_4)	3–8	01-2119444918-26-0000 to 01-2119444918-26-0294 –	– 231-900-3	– 7778-18-9

¹) related to the dry weight

According to the criteria of Regulation 1907/2006/EC, ABSOL is an Article.

4 FIRST-AID MEASURES

- 4.1 **Description of first-aid measures**
- GENERAL GUIDELINES:** No delayed effects are known. In case of any problems, consult a physician.
- INHALATION:** Remove the dust source or carry the person to fresh air. If necessary, seek medical advice.
- EYE CONTACT:** Immediately rinse carefully and thoroughly using eye wash or water. If symptoms persist, seek medical advice.
- 4.2 **Most important acute and delayed symptoms and effects:** The handling of the product could cause dust formation which could cause irritation of eyes, skin, nose and throat.
- 4.3 **Advice on immediate medical attention and special treatment:** Deal according to the symptoms. Follow the instructions provided in section 4.1.

5 FIRE-FIGHTING MEASURES

ABSOL itself does not burn. Attune the fire-fighting measures to the surrounding fire. In case of fire, there will be no release of dangerous substances from the product itself.

6 ACCIDENTAL RELEASE MEASURES

ABSOL can be taken up mechanically. Dependent on the degree of contamination ABSOL can either be reused or discarded. (see section 13). Avoid dust formation.

- 6.1 **Personal precautions, protective equipment and emergency procedures:** Provide adequate ventilation. Keep dust generation as low as possible. Avoid inhaling dust. Avoid prolonged skin contact (see section 8).
- 6.2 **Environmental precautions:** Pick up spilled material.
- 6.3 **Methods and material for containment and cleaning up:** Use shovel and broom. Avoid dust formation when retrieving the material. After cleaning, ventilate and rinse surfaces with water.
- 6.4 **Reference to other sections:** For more information on exposure control / protection of persons and disposal, please refer to sections 8 and 13.

7 HANDLING AND STORAGE

- 7.1 **Precautions for safe handling:** Avoid dust formation. In case of dust generation, provide sufficient exhaust ventilation (see section 8).
- 7.2 **Conditions for safe storage, including any incompatibilities:** Minimize airborne dust generation. Store in a dry and well ventilated place.
- 7.3 **Specific end use(s):** See section 1.2.

8 EXPOSURE CONTROL AND PERSONAL PROTECTION

- 8.1 **Control parameters:** Follow workplace regulatory exposure limits for all types of airborne dust (e.g. total dust, respirable dust). For individual limits values in European member states, please consult a competent occupational hygienist or the local regulatory authority.

Table 2: National occupational exposure limits in mg/m³ (8 hours) TWA dust ¹⁾

Member State	Non specified (inert) dust INHALABLE	Non specified (inert) dust RESPIRABLE	Member State	Non specified (inert) dust INHALABLE	Non specified (inert) dust RESPIRABLE
Austria	15	6	Italy	10	3
Belgium	10	3	Netherlands	10	5
Bulgaria	4	4	Norway	10	5
Czech Republic	10	–	Poland	10	–
Denmark	10	5	Portugal	10	5
Finland	10	–	Romania	10	10
France	10	5	Slovakia	10	–
Germany	10	1.25	Spain	10	3
Greece	10	5	Sweden	5	2.5
Ireland	10	4	UK	10	4

¹⁾ This list is not exhaustive

- 8.2 **Exposure controls:** Concerning respirable crystalline silica (quartz) the Binding Occupational Exposure Limit Value (BOELV) of the European Commission amounts to 0.10 mg/m³. Please consider that national limit values below 0.10 mg/m³ are mandatory in several member states.

Table 3: National limit values for respirable crystalline silica dust ¹⁾

Netherland	0.075 mg/m ³	Italy	0.025 mg/m ³
Germany	0.05 mg/m ³	Portugal	0.025 mg/m ³
Spain	0.05 mg/m ³	Finland	0.05 mg/m ³
Belgium	0.025 mg/m ³		

¹⁾ This list is not exhaustive

- 8.2.1 **Appropriate technical controls:** Keep dust generation as low as possible. Closed systems, local exhaust systems or other technical control devices should be used to reduce the development of dust in order to be able to safely comply with the applicable dust limit values. Change and wash contaminated clothing.
- 8.2.2 **Individual protective measures including personal protective equipment**
 - 8.2.2.1 **EYE AND FACE PROTECTION:** If dust develops, wear safety glasses with side protection.
 - 8.2.2.2 **SKIN PROTECTION:** In the event of prolonged direct contact, the use of protective gloves is recommended as a preventive measure.
 - 8.2.2.3 **RESPIRATORY PROTECTION:** In the event of prolonged direct contact, the use of respiratory protection is recommended.
 - 8.2.2.4 **Environmental exposure controls:** Avoid release to the environment.

9 PHYSICAL AND CHEMICAL PROPERTIES

Table 4: Physical and chemical properties.

Appearance	white granules	Danger of explosion	none
Odour	none	Comburant properties.....	none
pH-value	10–11 (at 20°C)	Vapor pressure	non-applicable
Melting point.....	≥1200 °C	True density	2.3 – 2.5 g/cm ³
Flammability	non-inflammable	Bulk density	~ 400 kg/m ³
Spontaneous combustion.....	incombustible	Solubility in water	very low

10 STABILITY AND REACTIVITY

- 10.1 **Reactivity:** Stable under normal conditions.
- 10.2 **Chemical stability:** Stable under normal conditions.
- 10.3 **Possibility of hazardous reactions:** Reacts with strong, concentrated acids (heat development and/or release of carbon dioxide by neutralization reaction possible). Reacts with strong, concentrated oxidants (heat development and/or accelerated decomposition of the oxidant possible).
- 10.4 **Conditions to avoid:** None.
- 10.5 **Incompatible materials:** Strong, concentrated acids and strong, concentrated oxidants.
- 10.6 **Hazardous decomposition products:** None.

11 TOXICOLOGICAL INFORMATION

ABSOL is non-toxic.

ABSOL contains less than 0.05 % w/w of inhalable particulate matter with a respirable (alveolar) fraction below 0.002 % w/w. The content of respirable quartz dust is less than 0.0001 % w/w.

If the general German limit value of 1.25 mg/m³ for respirable dust is maintained, respirable quartz dust concentrations are far below the criterion (Beurteilungsmaßstab) of the German

Ausschuss für Gefahrstoffe (AGS) der Bundesanstalt für Arbeitsschutz und Arbeitssicherheit (baua) of 50 µg/m³, which has been in force since 2015.

Due to the alkaline pH and the drying effect of ABSOL, skin irritation is possible with prolonged contact. The use of protective gloves is therefore recommended as a preventive measure.

12 TOXICITY

- 12.1 **Water hazard class (Germany):** 1 (slightly hazardous to water). Classification according to Anhang 4 of the German Verwaltungsvorschrift wassergefährdende Stoffe from May 17, 1999 (VwVwS) and the Änderung der Verwaltungsvorschrift wassergefährdende Stoffe from July 27, 2005, respectively, which concerns the contents of calcium sulphate and calcium hydroxide.
- 12.2 **Daphnia toxicity:** ABSOL dispersed in water is not ecotoxic to Daphnia when the pH is kept neutral (Test according to the German DIN 38412-30:1989-03 (L 30); Dr. U. Noack-Laboratorien, Käthe-Paulus-Str. 1, 31157 Sarstedt, Germany).
- 12.3 **Persistence and degradability:** Based on available data, classification criteria are not fulfilled.
- 12.4 **Bioaccumulation potential:** Based on available data, classification criteria are not fulfilled.
- 12.5 **Mobility in soil:** No data available.
- 12.6 **PBT and vPvB assessment:** Based on available data, classification criteria are not fulfilled.
- 12.7 **Other harmful effects:** Not known.

ABSOL is extremely poorly soluble in water and can be easily separated from water by filtration or sedimentation.

13 WASTE TREATMENT METHODS

Reutilization is possible. Dispose waste in accordance with the European and local/national regulations. Waste code according to European Waste Catalogue (EWC): 17 01 01. For disposal measures of ABSOL after use, relevant and legal regulations which apply to the substance bound to ABSOL (by absorption or adsorption) must be considered.

14 TRANSPORT INFORMATION

Non-hazardous material according to transport regulations.

15 REGULATORY INFORMATION

- 15.1 **Safety, health and environmental regulations/legislation specific for the substance:** Labelling according to Regulation No. 1272/2008/EC: No labeling required. Specific regulations on this specific product are not known.
Water hazard class (Germany): 1 (slightly hazardous to water)
- 15.2 **Chemical Safety Assessment:** A Chemical Safety Assessment has not been carried out.
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16 OTHER INFORMATION

16.1 Abbreviations

BOELV	Binding Occupational Exposure Limit Value
CAS	Chemical A ataloque
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation and Authorization of Chemicals (Regulation (EC) No 1907/2006)
Reg.-no.	Registration-number according to REACH
SDS	Safety Data Sheet
TWA	Time Weighted Average
vPvB	Very persistent, very bioaccumulative
wt.-%	Percent per weight

16.2 Disclaimer

This SDS has been made according to CE regulations. Data in the sheet are based on our current knowledge about the product. Attention of users is drawn to possible risks in case the product is used for other utilizations than those for which it was conceived.

This SDS does not exempt the user of the obligation of knowing and applying regulatory texts on his activity. He/she will take under his own responsibility all appropriate precautions related to his/her utilization of the product.

The goal of the references to regulations made in this document is to help the recipient to fulfill his obligations when using the product but not to guarantee its properties.

That list should not be considered as being exhaustive and does not exempt the recipient to verify if and which other obligations are to fulfill according to texts other than those mentioned in this SDS on the use, storage and handling of the product. For that the recipient remains the sole responsible.

This SDS should not be construed as any guarantee of technical performance, suitability for particular applications, and does not establish a legally valid contractual relationship.

Yxhult refuses all responsibility concerning possible loss or damage resulting from an inappropriate use.