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

1.1. Product identifier: Microbond®

1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended use: Cementitious decorative overlay

1.3. Detail of the supplier of the safety data sheet:

ECOBETON ITALY S.R.L.
Via G. Galilei, 47 36030 Costabissara (VI)
TEL. +39 0444 971893
E-mail: info@ecobeton.it

1.4. Emergency telephone number: +39 0444 971893

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP):
- Warning, STOT SE 3, May cause respiratory irritation.
- Warning, Skin Irrit. 2, Causes skin irritation.
- Warning, Skin Sens. 1, May cause an allergic skin reaction.
- Warning, Eye Dam. 1, Causes serious eye damage.

Adverse physicochemical, human health and environmental effects:
No other hazards

2.2. Label elements
Symbol:

Hazard Statements:
H335 – May cause respiratory irritation.
H315 – Causes skin irritation.
H318 – Causes serious eye damage.
H317 – May cause an allergic skin reaction.

Precautionary Statements:
P260 – Do not breathe dust.
P262 – Do not get in eyes, on skin, or on clothing.
P280 – Wear protective gloves/protective clothing/eye protection/face protection.
P305 – In case of eye contact: wash immediately with water and consult a physician.

Special provisions according to annex XVII of REACH and subsequent amendments:
None

2.3. Other Hazards
vPvB Substances: None– PBT Substances: None
Other Hazards:
no other hazards.

SECTION 3: Composition/information on ingredients

3.1. Substances:
N.A.

3.2. Mixtures:

Contains:

Identification	*Concentration %*	*Class. 1278/2008 CLP*
Calcium carbonate CAS: 1317-65-3 EC: 207-439-9 Reach n°: -	60 - 70	-

Portland Cement CAS: 65997-15-1 EC: 266-043-4 Reach n°: - **Nonhazardous additives**	30-40 < 5	STOT SE 3 H335 Skin Irrit. 2 H315 Eye Dam. 1 H318 Skin Sens. 1 H317 -

The full wording of risk (R) and hazard (H) phrases is given in section 16 of the sheet.

SECTION 4: First aid measures

4.1. Description of first aid measures
In case of skin contact:
wash immediately the affected area with soap and water.
In case of eyes contact:
After contact with eyes, rinse with water with the eyelids open for a sufficient length of time, then get medical attention.
In case of ingestion:
wash the mouth thoroughly and drink plenty of water. Do not induce vomiting. Obtain medical examination immediately.
In case of inhalation:
remove casualty to fresh air and keep warm and at rest.

4.2. Most important symptoms and effects, both acute and delayed:
If brought into contact with eyes, the product causes serious eye injury.
This preparation contains cement. Contact between cement and body fluids (e.g. sweat and eye fluids) may cause irritation or burns.

4.3. Indication of any immediate medical attention and special treatment needed
Treatment: see paragraph 4.1

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media:
None in particular
Extinguishing media which must not be used for safety reasons:
None in particular

5.2. Special hazards arising from the substance or mixture
The product is not combustible

5.3. Advice for firefighters
In case of nearby fire use either powder, water spray, foam or carbon dioxide.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Wear personal protection equipment.
See protective measures under point 7 and 8.

6.2. Environmental precautions
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up
Rapidly recover the product, wearing protective clothing. Scoop into containers and seal for disposal.
After the product has been recovered, rinse the area and materials involved with water.

6.4. Reference to other sections
See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe
Avoid contact with skin and eyes and exposure to high dust concentration.
Avoid powder development and deposit.
Do not eat or drink while working.
Contaminated clothing should be changed before entering eating areas.
See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities
Always keep the containers tightly closed.
Keep away from water or from damp surroundings.

7.3. Specific end use(s)

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

calcium carbonate - CAS: 1317-65-3
TLV TWA: 5 mg/m^3 (respirable fraction)
Portland Cement, Cr(VI) <2ppm – CAS: 65997-15-1
TLV TWA: (powder) 10mg/m^3
Portland Cement, Cr(VI) <2ppm – CAS: 65997-15-1
ACGIH - LTE: mg/m^3 : 5mg/m^3
DNEL Exposure Limit Values: N.A.
PNEC Exposure Limit Values: N.A.

8.2. Exposure controls

Eye protection:
safety googles are recommended
Skin protection:
use clothing that provides comprehensive protection to the skin
Protection for hands:
Use protective rubber gloves. Neoprene gloves are suggested (0,5 mm) Not recommended gloves: not waterproof gloves.
Respiratory protection:
Not needed for normal use. A dust mask (P2) should be worn if above exposure limits.

Personal Protective Equipment should comply with relevant CE standards (as EN 374 for gloves and EN 166 for goggles), correctly maintained and stored. Consult the supplier to check the suitability of equipment against specific chemicals and for user information.

Environmental exposure controls:
none.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and Appearance:

Appearance:	powder
Colour:	white
Odour:	typical of cement
Odour threshold:	N.A.
pH:	~ 10-11 (water dispersion)

9.2. Important informations about health, safety and environment

Melting point / freezing point:	N.A.
Initial boiling point and boiling range:	N.A.
Solid/gas flammability:	N.A.
Upper/lower flammability or explosive limits:	N.A.
Vapour density:	N.A.
Flash point:	N.A.
Evaporation rate:	N.A.
Vapour pressure:	N.A.
Relative density:	~ 3,15 gr/cm^3 (at 20°C) Bulk density: 1,8 gr/cm^3
Vapour density (air=1):	N.A.
Solubility in water:	partly soluble (0,1-1%)
Viscosity:	N.A.
Auto-ignition temperature:	N.A.
Explosion limits(by volume):	N.A.
Decomposition temperature:	N.A.
Partition coefficient (n-octanol/water):	N.A.
Explosive properties:	N.A.
Oxidizing properties:	N.A.

9.3. Other information

Miscibility:	N.A.
Fat Solubility:	N.A.
Conductivity:	N.A.
Substance Groups relevant properties:	N.A.

SECTION 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:
none.
10.4. Conditions to avoid:
Keep away from water or from damp surroundings during storage.
10.5. Incompatible materials:
none in particular.
10.6. Hazardous decomposition products:
none.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Route(s) of entry:
Ingestion: yes
Inhalation: yes
Contact: no
Toxicological information related to the product:
There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information on main components of the mixture
Toxicological information of the mixture: N.A.
Toxicological information of the main substances found in the mixture: N.A.
Corrosive/Irritating Properties:
Skin: contact may cause irritation
Eyes: contact may cause redness and irritation
Ingestion: may cause gastrointestinal problems
Inhalation: may cause respiratory irritation
Sensitizing properties:
no effects are known.
Carcinogenic effects:
The IARD (International Agency for Research on Cancer) believes that the crystalline silica inhaled at the workplace can cause lung cancer in man. However, it also points out that the cancer effect depends on the silica characteristics and on the biological-physical condition of the environment. There is a large amount of information in support of the fact that increased risk of cancer is limited to person suffering from silicosis. In the current situation of studies, protection of workers from silicosis can be ensured by respecting the exposure limit values.

Mutagenic effects:
no effects are known.
Teratogenic effects:
no effects are known.
If not differently specified, the information required in Regulation 453/2010/EC must be considered as N.A.

SECTION 12: Ecological information

12.1. Toxicity
The product increase the pH level on water and soil, and thereby may be dangerous aquatic beings.
Adopt good industrial practices, so that the product is not released into the environment.
12.2. Persistence and degradability
N.A.
12.3. Bioaccumulative potential
N.A.
12.4. Mobility in soil
N.A.
12.5. Results of PBT and vPvB assessment
vPvB Substances: None - PBT Substances: None
12.6. Other adverse effects
Not available data on the mixture

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Verify waste procedures with local authorities

SECTION 14: Transport information

14.1. UN number: N.A.
14.2. UN proper shipping name: N.A.
14.3. Transport hazard class(es)
RID/ADR: no dangerous good
ADR-Upper number: N.A.
Air (ICAO/IATA): no dangerous good
Sea (IMO/IMDG): no dangerous good
14.4. Packing group N.A.
14.5. Environmental hazards N.A.
14.6. Special precautions for user N.A.
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
no

SECTION 15: Regulatory Information

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

REACH Regulation n°1907/2006 (REACH)
CLP Regulation n°1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) e UE n. 758/2013
Regulation (EU) n. 453/2010 (Annex I)
Regulation UE n. 286/2011 (ATP 2 CLP)
Regulation UE n. 453/2012 (ATP 3 CLP)
Regulation UE n. 487/2013 (ATP 4 CLP)
Regulation UE n. 944/2013 (ATP 5 CLP)
Directive 2000/39/CE and s.m.i. (Professional threshold limit)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:
None

15.2. Chemical safety assessment
No

SECTION 16: Other information

Text of phrases referred to under heading 3:

H335 – May cause respiratory irritation.
H315 – Causes skin irritation.
H318 – Causes serious eye damage.
H317 – May cause an allergic skin reaction.

This safety data sheet has been completely updated in compliance to Regulation 453/2010/EU.

Warning for user:
The information contained herein is based on our suppliers and on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. This MSDS cancels and replaces any preceding release.