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earthborn®

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

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

1.1. Product identifier

Trade name/designation:

Ecopro Silicate Masonry Paint

Article No.:

1-170

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

Use of the substance/mixture:

Exterior Paint

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Earthborn
Frodsham Business Centre, Bridge Lane
Frodsham,
Cheshire
WA6 7FZ

Telephone: 01928 734 171

Telefax: 01928 731 732

E-mail: info@earthbornpaints.co.uk

Website: www.earthbornpaints.co.uk

1.4. Emergency telephone number

01928 734 171

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]:

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2. Label elements

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

According to EC directives or the corresponding national regulations the product does not have to be labelled.

Hazard statements: -

Supplemental Hazard information (EU): -

Precautionary statements: -

2.3. Other hazards




Adverse human health effects and symptoms:

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

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CL P]	Concentration
CAS No.: 1312-76-1 EC No.: 215-199-1 REACH No.: 01-2119456888-17-0002	Silicic acid, potassium salt STOT SE 3, Skin Irrit. 2, Eye Irrit. 2  Warning H315-H319-H335	2 - 4 Wt %
CAS No.: 1310-58-3 EC No.: 215-181-3	potassium hydroxide Skin Corr. 1A, Acute Tox. 4   Danger H302-H314	0 - 1 Wt %

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove contaminated, saturated clothing.

Following inhalation:

In case of respiratory tract irritation, consult a physician. Provide fresh air.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap.

After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion:

Rinse mouth. Let water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

No known symptoms to date.

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:

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media:

High power water jet

5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

Hazardous combustion products:

In case of fire: Do not breathe smoke.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

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

Personal precautions:

Avoid breathing dust/fume/gas/mist/vapours/spray. Special danger of slipping by leaking/spilling product.

Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection.

Revision date: 19-Jul-2016 Version: 1.0.0.0 Print date: 02-May-2017

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains. 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

For containment:

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up:

Take up mechanically, placing in appropriate containers for disposal. To clean the floor and all objects contaminated by this material, use plenty of water.

6.4. Reference to other sections

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

6.5. Additional information

Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Do not get in eyes, on skin, or on clothing. Keep out of reach of children. Read label before use.

Fire prevent measures:

The product itself does not burn.

Measures to prevent aerosol and dust generation:

Handle and open container with care.

Environmental precautions:

Do not empty into drains.

Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

Packaging materials:

Keep/Store only in original container.

Requirements for storage rooms and vessels:

Store in a cool dry place. Protect against: Frost

Hints on storage assembly:

Do not store together with: Food and feedingstuffs

Storage class: 12 - non-combustible liquids that cannot be assigned to any of the above storage classes

7.3. Specific end use(s)

Recommendation:

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
WEL (GB)	calcium carbonate CAS No.: 471-34-1	① 10 mg/m ³ ⑤ (inhalable fraction)
WEL (GB)	calcium carbonate CAS No.: 471-34-1	① 4 mg/m ³ ⑤ (respirable fraction)
WEL (GB)	titanium dioxide CAS No.: 13463-67-7	① 4 mg/m ³ ⑤ (respirable fraction)
WEL (GB)	titanium dioxide CAS No.: 13463-67-7	① 10 mg/m ³ ⑤ (inhalable fraction)
WEL (GB)	potassium hydroxide CAS No.: 1310-58-3	② 2 mg/m ³

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
titanium dioxide CAS No.: 13463-67-7	10 mg/m ³	① DNEL worker ② DNEL long-term inhalative (local)
titanium dioxide CAS No.: 13463-67-7	700 mg/kg bw/day	① DNEL Consumer ② DNEL long-term oral (repeated)
Silicic acid, potassium salt CAS No.: 1312-76-1	5.61 mg/m ³	① DNEL worker ② DNEL long-term inhalative (systemic)
Silicic acid, potassium salt CAS No.: 1312-76-1	1.38 mg/m ³	① DNEL Consumer ② DNEL long-term inhalative (systemic)
Silicic acid, potassium salt CAS No.: 1312-76-1	1.49 mg/kg	① DNEL worker ② DNEL long-term dermal (systemic)
Silicic acid, potassium salt CAS No.: 1312-76-1	0.74 mg/kg	① DNEL Consumer ② DNEL long-term dermal (systemic)
Silicic acid, potassium salt CAS No.: 1312-76-1	0.74 ml/kg	① DNEL Consumer ② DNEL long-term oral (repeated)

Substance name	PNEC Value	① PNEC type
titanium dioxide CAS No.: 13463-67-7	0.127 mg/l	① PNEC aquatic, freshwater
titanium dioxide CAS No.: 13463-67-7	1 mg/l	① PNEC aquatic, marine water
titanium dioxide CAS No.: 13463-67-7	100 mg/l	① PNEC sewage treatment plant (STP)
titanium dioxide CAS No.: 13463-67-7	1,000 mg/l	① PNEC sediment, freshwater
titanium dioxide CAS No.: 13463-67-7	100 mg/l	① PNEC sediment, marine water
titanium dioxide CAS No.: 13463-67-7	100 mg/l	① PNEC soil, freshwater
titanium dioxide CAS No.: 13463-67-7	0.61 mg/l	① PNEC aquatic, intermittent release
Silicic acid, potassium salt CAS No.: 1312-76-1	7.5 mg/l	① PNEC aquatic, freshwater

Revision date: 19-Jul-2016 Version: 1.0.0.0 Print date: 02-May-2017

Substance name	PNEC Value	① PNEC type
Silicic acid, potassium salt CAS No.: 1312-76-1	1 mg/l	① PNEC aquatic, marine water

8.2. Exposure controls

8.2.1. Appropriate engineering controls

See section 7. No additional measures necessary.

8.2.2. Personal protection equipment

Eye/face protection:

Eye glasses with side protection DIN EN 166

Skin protection:

Tested protective gloves must be worn DIN EN 374 Suitable material: NBR (Nitrile rubber) .
 In the case of wanting to use the gloves again, clean them before taking off and air them well.
 Breakthrough times and swelling properties of the material must be taken into consideration.

Respiratory protection:

Bei Spritzverarbeitung: Particle filter device (DIN EN 143) .

Other protection measures:

Wear suitable protective clothing. Bei Spritzverarbeitung: Disposable suit .

8.2.3. Environmental exposure controls

No data available

8.3. Additional information

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: liquid

Colour: white

Odour: characteristic

Safety relevant basis data

parameter		at °C	Method	Remark
pH	10 - 11	20 °C		
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	<i>not determined</i>			
Decomposition temperature (°C):	<i>not determined</i>			
Flash point	<i>not determined</i>			
Evaporation rate	<i>not determined</i>			
Ignition temperature in °C	<i>not determined</i>			
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Relative density	= 1.6 - 1.65 g/cm ³	20 °C		
Bulk density	<i>not determined</i>			
Water solubility (g/L)	<i>not determined</i>			
Partition coefficient: n-octanol/ water	<i>not determined</i>			
Dynamic viscosity	5,000 - 6,000 mPa*s			
Kinematic viscosity	<i>not determined</i>	40 °C		

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

not relevant The product itself does not burn.

10.2. Chemical stability

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

Revision date: 19-Jul-2016 Version: 1.0.0.0 Print date: 02-May-2017

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Heat. Frost. Protect against direct sunlight.

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

In case of fire: Gases/vapours, toxic

SECTION 11: Toxicological information

11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
1312-76-1	Silicic acid, potassium salt	LD ₅₀ oral: >2,000 mg/kg (Rat)

Acute oral toxicity:

There are no data available on the mixture itself.

Acute dermal toxicity:

There are no data available on the mixture itself.

Acute inhalation toxicity:

There are no data available on the mixture itself.

Skin corrosion/irritation:

The classification criteria for this hazard class are not met by definition.

Eye damage/irritation:

The classification criteria for this hazard class are not met by definition.

Respiratory or skin sensitisation:

May produce an allergic reaction.

Germ cell mutagenicity:

The classification criteria for this hazard class are not met by definition.

Carcinogenicity:

The classification criteria for this hazard class are not met by definition.

Reproductive toxicity:

The classification criteria for this hazard class are not met by definition.

STOT-single exposure:

The classification criteria for this hazard class are not met by definition.

STOT-repeated exposure:

The classification criteria for this hazard class are not met by definition.

Aspiration hazard:

The classification criteria for this hazard class are not met by definition.

Additional information:

No data available

SECTION 12: Ecological information

12.1. Toxicity

CAS No.	Substance name	Toxicological information
1312-76-1	Silicic acid, potassium salt	EC ₅₀ : >146 mg/l (Daphnia pulex (water flea)) LC ₅₀ : >146 mg/l 2 d (Leuciscus idus (golden orfe))
1310-58-3	potassium hydroxide	LC ₅₀ : =80 mg/l 4 d (Gambus affinis)

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

Revision date: 19-Jul-2016 Version: 1.0.0.0 Print date: 02-May-2017

12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
1312-76-1	Silicic acid, potassium salt	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
1310-58-3	potassium hydroxide	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.

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

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste according to applicable legislation.

Waste treatment options

Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Dispose of waste according to applicable legislation. Non-contaminated packages may be recycled.
 Handle contaminated packages in the same way as the substance itself.

13.2. Additional information

No data available

SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

14.1. UN-No.	not relevant
14.2. UN proper shipping name	not relevant
14.3. Transport hazard class(es)	not relevant
14.4. Packing group	not relevant
14.5. Environmental hazards	not relevant
14.6. Special precautions for user	not relevant

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not relevant

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Authorisations:

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Other regulations (EU):

This product meets the requirements of Regulation (EC) No. 1935/2004 on the limitation of VOC content.
 VOC limit value step II (g/L), ready-to-use condition: 30g/l
 Maximum VOC content (g/L) of the product in a ready to use condition: 1g/l

15.1.2. National regulations

No data available

15.2. Chemical Safety Assessment

No data available

Revision date: 19-Jul-2016 Version: 1.0.0.0 Print date: 02-May-2017

15.3. Additional information

No data available

SECTION 16: Other information

16.1. Indication of changes

* Data changed compared with the previous version

16.2. Abbreviations and acronyms

See table overview at www.euphrac.eu

16.3. Key literature references and sources for data

No data available

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

Classification according to Regulation (EC) No 1272/2008 [CLP]:

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

16.6. Training advice

No data available

16.7. Additional information

No data available