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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:

Earthborn Ecopro Silicate Paint

Article No.:

1-170

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

Use of the substance/mixture:

Coating material

1.3. Details of the supplier of the safety data sheet

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

Earthborn

Frodsham Business

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

EUH210	Safety data sheet available on request.
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Precautionary Statements Prevention

P262	Do not get in eyes, on skin, or on clothing.
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Precautionary Statements Response

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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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.


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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 [CLP]	Concentration
CAS No.: 1312-76-1 EC No.: 215-199-1 REACH No.: 01-2119456888-17-0002	Silicic acid, potassium salt Eye Irrit. 2, Skin Irrit. 2  Warning H315-H319-EUH210	< 5 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 drunk 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.

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

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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

No data available

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
Silicic acid, potassium salt CAS No.: 1312-76-1	5.61 mg/m ³	① DNEL worker ② inhalative, long-term, systemic
Silicic acid, potassium salt CAS No.: 1312-76-1	1.38 mg/m ³	① DNEL Consumer ② inhalative, long-term, systemic
Silicic acid, potassium salt CAS No.: 1312-76-1	1.49 mg/kg	① DNEL worker ② dermal, long-term, systemic

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Substance name	DNEL value	① DNEL type ② Exposure route
Silicic acid, potassium salt CAS No.: 1312-76-1	0.74 mg/kg	① DNEL Consumer ② dermal, long-term, systemic
Silicic acid, potassium salt CAS No.: 1312-76-1	0.74 ml/kg	① DNEL Consumer ② oral, long-term, systemic

Substance name	PNEC Value	① PNEC type
Silicic acid, potassium salt CAS No.: 1312-76-1	7.5 mg/l	① PNEC aquatic, freshwater
Silicic acid, potassium salt CAS No.: 1312-76-1	1 mg/l	① PNEC aquatic, marine water
Silicic acid, potassium salt CAS No.: 1312-76-1	348 mg/l	① PNEC sewage treatment plant

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 EN ISO 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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: white

Odour: odourless

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	<i>not determined</i>			
Flash point	<i>not determined</i>			
Evaporation rate	<i>not determined</i>			
Auto-ignition temperature	<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>			
Density	= 1.6 - 1.65 g/cm ³	20 °C		
Bulk density	<i>not determined</i>			
Water solubility	<i>not determined</i>			
Partition coefficient: n-octanol/ water	<i>not determined</i>			
Dynamic viscosity	5,000 - 6,000 mPa*s			

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parameter		at °C	Method	Remark
Kinematic viscosity	<i>not determined</i>			

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.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Heat. Frost. Protect from 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	LD₅₀ oral: >2,000 mg/kg (Rat) ECHA LD₅₀ dermal: >5,000 mg/kg (Rat) ECHA

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.

Serious eye damage/irritation:

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

Respiratory or skin sensitisation:

There are no data available on the mixture itself.

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

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SECTION 12: Ecological information

12.1. Toxicity

CAS No.	Substance name	Toxicological information
1312-76-1	Silicic acid, potassium salt	EC₅₀ : >207 mg/l 3 d (Algae/water plant, Daphnia pulex (water flea)) ECHA LC₅₀ : >146 mg/l 2 d (fish, Leuciscus idus (golden orfe)) ECHA EC₅₀ : >146 mg/l (crustaceans) ECHA

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

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.

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.

SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN-No.			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
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

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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

[DE] National regulations

Water hazard class (WGK)

WGK:

1 - schwach wassergefährdend

15.2. Chemical Safety Assessment

No data available

SECTION 16: Other information

16.1. Indication of changes

* Data changed compared with the previous version

16.2. Abbreviations and acronyms

Siehe Übersichtstabelle unter 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

H315	Causes skin irritation.
H319	Causes serious eye irritation.

Supplemental hazard information

EUH210	Safety data sheet available on request.
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16.6. Training advice

No data available

16.7. Additional information

No data available