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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:**

Silicate Primer

**Article No.:**

1-160

**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

Centre Bridge Lane

Frodsham

WA6 7FZ

**Telephone:** 01928 734 171

**Fax:** 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**

EUH210 Safety data sheet available on request.

**Precautionary Statements Prevention**

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

**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.

**2.3. Other hazards**

No data available


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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	<b>Silicic acid, potassium salt</b> Eye Irrit. 2, Skin Irrit. 2  <b>Warning</b> H315-H319-EUH210	3 - 6 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:

Take off immediately all contaminated clothing.

##### Following inhalation:

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.

##### Self-protection of the first aider:

No special measures are necessary.

#### 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.

##### Unsuitable extinguishing media:

Full water jet

#### 5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

##### Hazardous combustion products:

No information available.

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

#### 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:

Special danger of slipping by leaking/spilling product.

##### Protective equipment:

Use personal protection equipment.

##### 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.

**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:**

To clean the floor and all objects contaminated by this material, use plenty of water.

**Other information:**

Dilute with 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:**

Wear personal protection equipment (refer to section 8).

**Fire prevent measures:**

No special measures are necessary.

**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:**

Suitable container/equipment material: Polyethylene (PE) Steel Refined steel

**Requirements for storage rooms and vessels:**

Store in a cool dry place. Protect against: Frost

**Hints on storage assembly:**

Do not store together with: acids not otherwise specified

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

**7.3. Specific end use(s)**

**Recommendation:**

No information available.

**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 <sup>3</sup>	① DNEL worker ② inhalative, long-term, systemic
Silicic acid, potassium salt CAS No.: 1312-76-1	1.38 mg/m <sup>3</sup>	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 . 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:

Usually no personal respiratory protection necessary.

### 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:** whitish

**Odour:** odourless

#### Safety relevant basis data

parameter		at °C	Method	Remark
pH	10.8	20 °C		
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	> 100 °C			
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 - 1.15 g/cm <sup>3</sup>	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	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>	40 °C		

### 9.2. Other information

No data available

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No information available.

**10.2. Chemical stability**

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

**10.3. Possibility of hazardous reactions**

Exothermic reaction with: acids not otherwise specified Corrosive to metals.

**10.4. Conditions to avoid**

Heat. Frost.

**10.5. Incompatible materials**

Acid. Aluminium.

**10.6. Hazardous decomposition products**

No data available

**Further information**

No information available.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

CAS No.	Substance name	Toxicological information
1312-76-1	Silicic acid, potassium salt	<b>LD<sub>50</sub> oral:</b> >2,000 mg/kg (Rat) ECHA <b>LD<sub>50</sub> dermal:</b> >5,000 mg/kg (Rat) ECHA

**Acute oral toxicity:**

Based on available data, the classification criteria are not met.

**Acute dermal toxicity:**

Based on available data, the classification criteria are not met.

**Acute inhalation toxicity:**

Based on available data, the classification criteria are not met.

**Skin corrosion/irritation:**

slightly irritant but not relevant for classification.

**Serious eye damage/irritation:**

slightly irritant but not relevant for classification.

**Respiratory or skin sensitisation:**

Based on available data, the classification criteria are not met.

**Germ cell mutagenicity:**

Based on available data, the classification criteria are not met.

**Carcinogenicity:**

Based on available data, the classification criteria are not met.

**Reproductive toxicity:**

Based on available data, the classification criteria are not met.

**STOT-single exposure:**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure:**

Based on available data, the classification criteria are not met.

**Aspiration hazard:**

Based on available data, the classification criteria are not met.

**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	<b>EC<sub>50</sub></b> : >207 mg/l 3 d (Algae/water plant, Daphnia pulex (water flea)) ECHA <b>LC<sub>50</sub></b> : >146 mg/l 2 d (fish, Leuciscus idus (golden orfe)) ECHA <b>EC<sub>50</sub></b> : >146 mg/l (crustaceans) ECHA

### 12.2. Persistence and degradability

#### Additional information:

The product is an alkali. Before discharge into sewage plants the product normally needs to be neutralised.

### 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.

### 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.

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

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

not applicable

**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-value (in g/L): 0,5

type : Wb

VOC product category: h

VOC limit value: 30 g/l

**15.1.2. National regulations**

 **[DE] National regulations**

**Water hazard class (WGK)**

**WGK:**

1 - schwach wassergefährdend

**15.2. Chemical Safety Assessment**

For the following substances of this mixture a chemical safety assessment has been carried out: CAS.Nr. 1312-76-1

**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](http://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.

**16.6. Training advice**

No data available

**16.7. Additional information**

No data available