

## SAFETY DATA SHEET



Ecologic



The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

|             |            |
|-------------|------------|
| Date issued | 14.06.2018 |
|-------------|------------|

### 1.1. Product identifier

|              |          |
|--------------|----------|
| Product name | Ecologic |
|--------------|----------|

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

|                                    |                               |
|------------------------------------|-------------------------------|
| Use of the substance / preparation | Waterborne wood floor finish. |
|------------------------------------|-------------------------------|

### 1.3. Details of the supplier of the safety data sheet

|                  |   |
|------------------|---|
| Company name     | Arboritec AB  |
| Postal address   | Olof Wijksväg 9   |
| Postcode         | SE-444 65   |
| City             | Jörlanda  |
| Country          | Sverige   |
| Telephone number | 0046 303-563 30   |
| Fax              | 0046 303-563 32   |
| Email            | <a href="mailto:post@arboritec.com">post@arboritec.com</a>      |
| Website          | <a href="http://www.arboritec.com">http://www.arboritec.com</a> |
| Contact person   | Jörgen Kaldemark  |

### 1.4. Emergency telephone number

|                     |   |
|---------------------|---|
| Emergency telephone | Telephone number: 112<br>Description: In case of medical emergency call |
|---------------------|---|

## SECTION 2: Hazards identification

### 2.1. Classification of substance or mixture

## 2.2. Label elements

|                               |   |
|-------------------------------|---|
| Composition on the label      | Diethylene glycol monobutyl ether 2,5 – 5 %   |
| Other label information (CLP) | EUH208: Contains 1,2-benzisothiazol-3(2H)-one (EC no. 220-120-9). May produce an allergic reaction. EUH210: Safety data sheet available on request. |

## 2.3. Other hazards

|               |                                    |
|---------------|------------------------------------|
| Other hazards | When spray applying see section 8. |
|---------------|------------------------------------|

## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

| Substance                         | Identification  | Classification    | Contents  |
|-----------------------------------|---|-------------------|-----------|
| Diethylene glycol monobutyl ether | CAS No.: 112-34-5<br>EC No.: 203-961-6<br>Index No.: 603-096-00-8 | Eye Irrit. 2;H319 | 2,5 – 5 % |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|              |   |
|--------------|---|
| General      | Get medical advice/attention if you feel unwell. Never give anything by mouth to an unconscious person.   |
| Inhalation   | Use with adequate ventilation.  |
| Skin contact | Remove/Take off immediately all contaminated clothing. IF ON SKIN: Wash with plenty of soap and water. Do NOT use solvents or thinners.   |
| Eye contact  | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention if you feel unwell. |
| Ingestion    | IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.   |

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

### 4.3. Indication of any immediate medical attention and special treatment needed

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                              |   |
|------------------------------|---|
| Suitable extinguishing media | Recommended extinguishing media : alcohol resistant foam, CO <sub>2</sub> , powders, water spray. Do not use water jet. |
|------------------------------|---|

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

|                            |   |
|----------------------------|---|
| Fire and explosion hazards | Fire will produce dense black smoke. Decomposition products can be hazardous. At high temperatures create: Carbon monoxide (CO), carbon dioxide (CO <sub>2</sub> ), smoke, nitrogen gases (NO <sub>x</sub> ). |
|----------------------------|---|

### 5.3. Advice for firefighters

|                               |  |
|-------------------------------|--|
| Personal protective equipment | Wear respiratory protection.   |
| Other information             | Eliminate all ignition sources if safe to do so. Do not allow run-off from fire fighting to enter drains or water courses. |

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

|                              |   |
|------------------------------|---|
| General measures             | See section 7 and 8.  |
| Personal protection measures | In case of inadequate ventilation wear respiratory protection. Wear fire / flame resistant / retardant clothing. Use personal protective equipment as required. Wear cold insulating gloves / face shield / eye protection. Wear protective gloves / protective clothing / eye protection / face protection. Avoid breathing dust / fume / gas / mist / vapours / spray. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell. |

### 6.2. Environmental precautions

|                                      |   |
|--------------------------------------|---|
| Environmental precautionary measures | Collect spillage. Avoid release to the environment. If the product contaminates lakes, rivers or sewers, inform appropriate authorities in accordance with local regulations. |
|--------------------------------------|---|

### 6.3. Methods and material for containment and cleaning up

|                 |   |
|-----------------|---|
| Cleaning method | Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent; avoid use of solvents. |
|-----------------|---|

### 6.4. Reference to other sections

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

|          |  |
|----------|--|
| Handling | Avoid spilling, skin- and eye contact. Avoid breathing dust / fume / gas / mist / vapours / spray. Avoid breathing dust. |
|----------|--|

### Protective safety measures

|                            |  |
|----------------------------|--|
| Protective safety measures | Smoking, eating and drinking is forbidden in application area. Remove contaminated clothing and protective gear before you get to an area where meals are taken. |
| Additional information     | For personal protection see Section 8. Never use pressure to empty : container is not a pressure vessel.   |

### 7.2. Conditions for safe storage, including any incompatibilities

|                     |   |
|---------------------|---|
| Storage             | Keep only in original container. Store in a well-ventilated place. Keep container tightly closed. Keep cool. Protect from sunlight. Store in a dry place. Tillse att gällande arbetsmiljölågstiftning följs.      |
| Conditions to avoid | Keep away from heat / sparks / open flames / hot surfaces. — No smoking. Protect from sunlight. Keep away from oxidizing agents, from strongly alkaline and strongly acid materials. Prevent unauthorized access. |

## Conditions for safe storage

|                     |                       |
|---------------------|-----------------------|
| Storage temperature | Value: 5 – 25 Celsius |
|---------------------|-----------------------|

## 7.3. Specific end use(s)

|                 |   |
|-----------------|---|
| Recommendations | Do not handle until all safety precautions have been read and understood. |
|-----------------|---|

## SECTION 8: Exposure controls / personal protection

### 8.1. Control parameters

| Substance                         | Identification    | Value   | TWA Year       |
|-----------------------------------|-------------------|---|----------------|
| Diethylene glycol monobutyl ether | CAS No.: 112-34-5 | TWA (8h) : 10 ppm<br>TWA (8h) : 67,5 mg/m <sup>3</sup><br><b>OEL short term value</b><br>Value: 15 ppm<br><b>OEL short term value</b><br>Value: 101,2 mg/m <sup>3</sup> | TWA Year: 2011 |

### 8.2. Exposure controls

#### Precautionary measures to prevent exposure

|                                  |   |
|----------------------------------|---|
| Appropriate engineering controls | Use with adequate ventilation. If possible this should be achieved by local extraction and good exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory equipment. |
|----------------------------------|---|

#### Eye / face protection

|                         |   |
|-------------------------|---|
| Suitable eye protection | Wear cold insulating gloves / face shield / eye protection. |
|-------------------------|---|

#### Hand protection

|  |  |
|--|--|
| Hand protection                            | Wear cold insulating gloves / face shield / eye protection.  |
| Skin- / hand protection, long term contact | For prolonged or repeated contact use gloves made of butyl rubber.   |
| Suitable materials                         | Barrier creams may help to protect the skin, but they should however not be used once exposure has occurred. |

#### Skin protection

|                                |   |
|--------------------------------|---|
| Skin protection (except hands) | Wear fire / flame resistant / retardant clothing. |
|--------------------------------|---|

#### Respiratory protection

|                        |  |
|------------------------|--|
| Respiratory protection | Respiratory protection with gas filter (brown A) must be used if air concentration exceeds acceptable level (OEL). |
| Mask type              | When spraying, use half-or full face mask with filter P2 (Iib) to spray.   |

#### Exposure controls

|  |                        |
|--|------------------------|
| Safety measures for consumer use of the chemical | Read label before use. |
|--|------------------------|

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |   |
|---|---|
| Physical state                                  | Liquid.   |
| Odour   | Faint.  |
| Odour limit                                     | Comments: Not applicable.   |
| pH  | Status: In delivery state<br>Comments: Not determined.<br><br>Status: In aqueous solution<br>Comments: Not determined . |
| Melting point / melting range                   | Comments: Not determined.   |
| Boiling point / boiling range                   | Comments: Not determined.   |
| Flash point                                     | Value: 105 °C   |
| Evaporation rate                                | Comments: Not determined.   |
| Flammability (solid, gas)                       | Not determined  |
| Lower explosion limit with unit of measurement  | Value: 0,8 %  |
| Upper explosion limit with units of measurement | Value: 9,4 %  |
| Vapour pressure                                 | Comments: Not determined.   |
| Vapour density                                  | Comments: Not determined.   |
| Specific gravity                                | Value: 1,05 g/ml<br>Method: ASTM6450<br>Temperature: 23 °C  |
| Solubility in water                             | unlimited.  |
| Partition coefficient: n-octanol/water          | Comments: Not applicable.   |
| Viscosity                                       | Comments: Not determined.<br>Does not affect the assessment.  |
| Explosive properties                            | Not explosive.  |
| Oxidising properties                            | Not Oxidising.  |

### 9.2. Other information

#### Physical hazards

|                |  |
|----------------|--|
| Content of VOC | Value: 47 g/l<br>Comments: Initial boiling point less than or equal to 250°C |
|----------------|--|

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

|            |              |
|------------|--------------|
| Reactivity | No reactive. |
|------------|--------------|

### 10.2. Chemical stability

|           |   |
|-----------|---|
| Stability | Stable under recommended storage and handling conditions (see section 7). |
|-----------|---|

### 10.3. Possibility of hazardous reactions

|                                    |   |
|------------------------------------|---|
| Possibility of hazardous reactions | No dangerous if handled according to Technical Information. |
|------------------------------------|---|

### 10.4. Conditions to avoid

|                     |                |
|---------------------|----------------|
| Conditions to avoid | No applicable. |
|---------------------|----------------|

### 10.5. Incompatible materials

|                    |   |
|--------------------|---|
| Materials to avoid | Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reaction. |
|--------------------|---|

### 10.6. Hazardous decomposition products

|                                  |   |
|----------------------------------|---|
| Hazardous decomposition products | When exposed to high temperature may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen. |
|----------------------------------|---|

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                |   |
|----------------|---|
| Substance      | Diethylene glycol monobutyl ether   |
| Acute toxicity | <b>Type of toxicity:</b> Acute<br><b>Effect tested:</b> LD50<br><b>Route of exposure:</b> Oral<br><b>Value:</b> 5660 mg/kg<br><b>Animal test species:</b> Råtta   |
|                | <b>Type of toxicity:</b> Acute<br><b>Effect tested:</b> LD50<br><b>Route of exposure:</b> Dermal<br><b>Value:</b> 2700 mg/kg<br><b>Animal test species:</b> Kanin |

### Other information regarding health hazards

|  |  |
|--|--|
| Inhalation                                     | May cause drowsiness or dizziness. May cause respiratory irritation. |
| Skin contact                                   | No information is available.   |
| Eye contact                                    | No information available.  |
| Ingestion                                      | Ingestion may cause nausea and vomiting.                             |
| Skin corrosion / irritation, other information | No information available.  |

|  |   |
|--|---|
| Eye damage or irritation other information | If splashed in the eyes, the liquid may cause irritation and reversible damage.   |
| General respiratory or skin sensitisation  | Prolonged or repeated contact may defat the skin, resulting in non-allergic contact eczema and absorption through the skin. |
| Germ cell mutagenicity, human experience   | No information available.   |
| Carcinogenicity human experience           | No information is available.  |
| Reproductive toxicity                      | No information available.   |
| STOT-single exposure                       | No information available.   |
| STOT-repeated exposure                     | No information available.   |
| Aspiration hazard, comments                | When applying see section 8.  |

## SECTION 12: Ecological information

### 12.1. Toxicity

|                     |   |
|---------------------|---|
| Acute aquatic, fish | Comments: Not expected to be toxic to aquatic life.   |
| Substance           | Diethylene glycol monobutyl ether   |
| Acute aquatic, fish | <b>Value:</b> 2000 mg/L<br><b>Test duration:</b> 96h<br><b>Species:</b> Inland silverside<br><b>Method:</b> LC50<br><b>Test reference:</b> Saltvatten |

### 12.2. Persistence and degradability

|   |                 |
|---|-----------------|
| Persistence and degradability description | Not determined. |
|---|-----------------|

### 12.3. Bioaccumulative potential

|                           |                 |
|---------------------------|-----------------|
| Bioaccumulative potential | Not determined. |
|---------------------------|-----------------|

### 12.4. Mobility in soil

|          |                   |
|----------|-------------------|
| Mobility | Soluble in water. |
|----------|-------------------|

### 12.5. Results of PBT and vPvB assessment

|                        |  |
|------------------------|--|
| PBT assessment results | Not classified as PBT / vPvB of current EU criteria. |
|------------------------|--|

### 12.6. Other adverse effects

|                                 |             |
|---------------------------------|-------------|
| Other adverse effects, comments | None known. |
|---------------------------------|-------------|

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|   |   |
|---|---|
| Specify the appropriate methods of disposal | Avoid release to the environment. Collect spillage. Wastes and empty containers should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act.    |
| Product classified as hazardous waste       | No  |
| EWC waste code                              | EWC: 08 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS, National waste code: 01, National wastegroup: 12 |

## SECTION 14: Transport information

### 14.1. UN number

|          |  |
|----------|--|
| Comments | Not dangerous goods.<br>Transport in accordance with national law and ADR for road, RID for rail, IMDG for sea and ICAO / IATA for air. For complete information on transport, see transport document. |
|----------|--|

### 14.2. UN proper shipping name

|                 |    |
|-----------------|----|
| ADR / RID / ADN | -- |
| IMDG            | -- |
| ICAO / IATA     | -- |

### 14.3. Transport hazard class(es)

### 14.4. Packing group

### 14.5. Environmental hazards

|                       |    |
|-----------------------|----|
| IMDG Marine pollutant | No |
|-----------------------|----|

### 14.6. Special precautions for user

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

## SECTION 15: Regulatory information

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

|                             |   |
|-----------------------------|---|
| Legislation and regulations | The labeling of the product according to EC directives 67/548/EEC, 1999/45/EC, see section 2.<br><br>Classification and labeling of substances under Directive 67/548/EC, 1999/45/EC, see section 3.<br><br>Classification and labeling of substances according to Regulation (EC) 1272/2008 (CLP) is in section 3.<br>Safety data sheet is designed according to EU Commission Regulation No. 1907/2006. |
|-----------------------------|---|



## 15.2. Chemical safety assessment

|                                      |    |
|--------------------------------------|----|
| Chemical safety assessment performed | No |
|--------------------------------------|----|

## SECTION 16: Other information

|  |   |
|--|---|
| List of relevant H-phrases (Section 2 and 3) | H319 Causes serious eye irritation.   |
| Version                                      | 1   |
| Comments                                     | The information of this SDS is based on the present state of our knowledge and on current EU and national laws. The product is not to be used for other purposes than those specified under section 1 without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfill the demand laid down in the local rules and legislation. The information in this SDS is meant as a description of the safety requirements of our product : it is not to be considered as a guarantee of the products' properties. |