



SDS according to Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex II-EU

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

Date issued 28.07.2014

1.1. Product identifier

Product name EcoTitan

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
 Tel 0303-563 30
 Fax 0303-563 32
 E-mail post@arboritec.com
 Website http://www.arboritec.com
 Contact person Jörgen Kaldemark

1.4. Emergency telephone number

Emergency telephone In case of medical emergency call:112

SECTION 2: Hazards identification

2.1. Classification of substance or mixture

2.2. Label elements

Composition on the label Diethylene glycol monobutyl ether:1 - 2,5 %

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 EC no.: 203-961-6 Index no.: 603-096-00-8 Synonyms: 2-(2-Butoxyethoxy) ethanol | Xi; R36 Eye Irrit. 2;H319; Eye Irrit. 2;H319; | 1 - 2,5 % |

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

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| | 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

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| Suitable extinguishing media | Recommended extinguishing media : alcohol resistant foam, CO2, powders, water spray. Do not use water jet. |
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5.2. Special hazards arising from the substance or mixture

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| Fire and explosion hazards | Fire will produce dense black smoke. Decomposition products can be hazardous. At high temperatures create: Carbon monoxide (CO), carbon dioxide (CO2), smoke, nitrogen gases (NOx). |
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5.3. Advice for firefighters

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| 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

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| 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

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

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| 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. |
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6.4. Reference to other sections

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

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| Protective Safety Measures | Smoking, eating and drinking should be prohibited 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

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| 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

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| Storage Temperature | Value: 5-25 Celsius |
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7.3. Specific end use(s)

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| Recommendations | Do not handle until all safety precautions have been read and understood. |
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Specific end users

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure limit values

| Substance | Identification | Value | TWA Year |
|-----------------------------------|---|------------------------------------|----------|
| Diethylene glycol monobutyl ether | CAS no.: 112-34-5 | 8-hour TWA: 10 ppm | 2011 |
| | EC no.: 203-961-6 | 8-hour TWA: 67,5 mg/m ³ | |
| | Index no.: 603-096-00-8 | 15 min.: 15 ppm | |
| | Synonyms: 2-(2-Butoxyethoxy) ethanol | 15 min.: 101,2 mg/m ³ | |

8.2. Exposure controls

Precautionary measures to prevent exposure

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| 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. |
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Respiratory protection

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| 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. |

Hand protection

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| 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. |

Eye / face protection

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| Suitable Eye Protection | Wear cold insulating gloves / face shield / eye protection. |
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Skin protection

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

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| Safety measures for consumer use of the chemical | Read label before use. |
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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| Physical state | Liquid. |
| Odour | Faint. |
| Comments, Odour limit | Not applicable. |
| Comments, pH (as supplied) | Not determined. |
| Comments, pH (aqueous solution) | Not determined. |
| Comments, Melting point / melting range | Not determined. |
| Comments, Boiling point / boiling range | Not determined. |
| Flash point | Value: 105 °C |
| Comments, Evaporation rate | 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 % |
| Comments, Vapour pressure | Not determined. |
| Comments, Vapour density | Not determined. |
| Specific gravity | Value: 1,05 g/ml Method of testing: ASTM6450 Test temperature: 23 °C |
| Solubility in water | unlimited. |
| Comments, Partition coefficient: n-octanol / water | Not applicable. |
| Comments, Decomposition temperature | Not determined |
| Comments, Viscosity | Not determined. Does not affect the assessment. |
| Explosive properties | Not explosive. |
| Oxidising properties | Not Oxidising. |

9.2. Other information

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| Content Of Voc | Value: 21 g/l Comments: Initial boiling point less than or equal to 250°C. |
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SECTION 10: Stability and reactivity

10.1. Reactivity

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| Reactivity | No reactive. |
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10.2. Chemical stability

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| Stability | Stable under recommended storage and handling conditions (see section 7). |
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10.3. Possibility of hazardous reactions

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| Possibility of hazardous reactions | No dangerous if handled according to Technical Information. |
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10.4. Conditions to avoid

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|---------------------|----------------|
| Conditions to avoid | No applicable. |
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10.5. Incompatible materials

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

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| Hazardous decomposition products | When exposed to high temperature may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen. |
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological data for substances

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| Substance | Diethylene glycol monobutyl ether |
| LD50 oral | Value: 5660 mg/kg Animal test species: Rat |
| LD50 dermal | Value: 2700 mg/kg Animal test species: Rabbit |

Potential acute effects

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| 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. |
| Aspiration hazard, comments | When applying see section 8. |
| Eye damage or irritation other info | If splashed in the eyes, the liquid may cause irritation and reversible damage. |

Delayed effects / repeated exposure

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|---|---|
| General respiratory or skin sensitisation | Prolonged or repeated contact may defat the skin, resulting in non-allergic contact eczema and absorption through the skin. |
| STOT-single exposure | No information available. |
| STOT-repeated exposure | No information available. |

Carcinogenic, Mutagenic or Reprotoxic

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| Carcinogenicity human experience | No information is available. |
| Germ Cell Mutagenicity, human experience | No information available. |
| Reproductive toxicity | No information available. |

SECTION 12: Ecological information

12.1. Toxicity

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| Acute aquatic, fish, Comments | Not expected to be toxic to aquatic life. |
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Toxicological data for substances

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|--------------------------|---|
| Substance | Diethylene glycol monobutyl ether |
| Acute aquatic, fish | Value: 2000 mg/L Method of testing: LC50 Species: Inland silverside Duration: 96h Test reference: salt water |
| Acute aquatic, fish LCLo | Value: 1300 mg/L Method of testing: LC50 Species: Bluegill Lepomis macrochirus Duration: 96h Test reference: Sweetwater |

12.2. Persistence and degradability

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| Persistence and degradability description | Highly biodegradable. |
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12.3. Bioaccumulative potential

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| Bioaccumulative potential | Not Bioaccumulative. |
| Bioconcentration factor (BCF) | Value: 2,9 |
| Comments, BCF | LogPow:0,6 |

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 / Remarks 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.
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 ---
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.

Classification and labeling of substances under Directive 67/548/EC, 1999/45/EC, see section 3.

Classification and labeling of substances according to Regulation (EC) 1272/2008 (CLP) is in section 3.
Safety data sheet is designed according to EU Commission Regulation No. 1907/2006.

15.2. Chemical safety assessment

Chemical safety assessment No

performed

SECTION 16: Other information

| | |
|--|---|
| List of relevant R-phrases (under headings 2 and 3). | R36 Irritating to eyes. |
| List of relevant H-phrases (Section 2 and 3). | H319 Causes serious eye irritation. |
| Version | 1 |
| Responsible for safety data sheet | Arboritec AB |
| 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. |