

## SAFETY DATA SHEET



FlowTec



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	01.03.2018
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### 1.1. Product identifier

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

Use of the substance / preparation	Waterborne wood floor finish.
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### 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	0303-563 30
Fax	0303-563 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 Description: In case of medical emergency call
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## 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.
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## 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	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.
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### 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> ).
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### 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.
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### 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.
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### 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.
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### 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
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## 7.3. Specific end use(s)

Recommendations	Do not handle until all safety precautions have been read and understood.
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## 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 TWA (8h) : 67,5 mg/m <sup>3</sup> <b>OEL short term value</b> Value: 15 ppm <b>OEL short term value</b> 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.
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#### Eye / face protection

Suitable eye protection	Wear cold insulating gloves / face shield / eye protection.
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#### 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.
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#### 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.
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## 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 Comments: Not determined.
	Status: In aqueous solution 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 Method: ASTM6450 Temperature: 23 °C
Solubility in water	unlimited.
Partition coefficient: n-octanol/water	Comments: Not applicable.
Viscosity	Comments: Not determined. 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 Comments: Initial boiling point less than or equal to 250°C
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity	No reactive.
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### 10.2. Chemical stability

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

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

Conditions to avoid	No applicable.
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### 10.5. Incompatible materials

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

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

Substance	Diethylene glycol monobutyl ether
Acute toxicity	<b>Type of toxicity:</b> Acute <b>Effect tested:</b> LD50 <b>Route of exposure:</b> Oral <b>Value:</b> 5660 mg/kg <b>Animal test species:</b> Råtta
	<b>Type of toxicity:</b> Acute <b>Effect tested:</b> LD50 <b>Route of exposure:</b> Dermal <b>Value:</b> 2700 mg/kg <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 <b>Test duration:</b> 96h <b>Species:</b> Inland silverside <b>Method:</b> LC50 <b>Test reference:</b> Saltvatten

### 12.2. Persistence and degradability

Persistence and degradability description	Not determined.
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### 12.3. Bioaccumulative potential

Bioaccumulative potential	Not determined.
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### 12.4. Mobility in soil

Mobility	Soluble in water.
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### 12.5. Results of PBT and vPvB assessment

PBT assessment results	Not classified as PBT / vPvB of current EU criteria.
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### 12.6. Other adverse effects

Other adverse effects, comments	None known.
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## 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.
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### 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
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### 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.
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## 15.2. Chemical safety assessment

Chemical safety assessment performed	No
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## 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.