

SAFETY DATA SHEET

1. Identification of the substance/preparation and of the company/undertaking

1.1. Product identifier

Trade name EcoTitan
Product code

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

Waterborne wood floor finish.

1.3. Details of the supplier of the safety data sheet

Supplier Arboritec AB
Olof Wijksväg 9
SE- 444 65 Jörlanda
Sweden
Phone: +46 (0)303 56 330
Fax: +46 (0)303 56 332
web page: www.arboritec.se
Issuer Jörgen Kaldemark
info@arboritec.se

1.4. Emergency telephone number

In case of medical emergency call 112

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Supersedes..... 2010-02-04

2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to EC Regulation (Nr 1272/2008)

None known under normal use.

Classification according to EC directives (67/548/EEC, 1999/45/EC)

None known under normal use.

2.2. Label elements

Labelling according to EC Regulation (Nr 1272/2008)

Hazard pictogram(s) : --

Signal word : --

Contains: : --

Hazard Statement : --

Precautionary Statement Prevention:

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Response:

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Storage/Disposal:

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2.3. Other hazards

When spray applying see section 8.

3. Composition/information on ingredients

Safety Data Sheet

EcoTitan

Revision date 2013-01-31

3.2. Mixtures

Substances	CAS-nr. EC-nr. Registrationnr.	Percen -tage %	Classification		Note
			67/548/EEC	EC Regulation Nr 1272/2008	
2-(2-butoxyethoxy)ethanol	112-34-5 203-961-6 --	1-2,5	Xi; R36	Eye irrit. 2, H319	1, 2

For the detailed text of the R phrases and H-phrases mentioned in this section, see section 16.

Explanation of Notes.:

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT under Regulation (EC) No 1207/2006, Annex XIII

[4] Substance meets the criteria for vPvBs under Regulation (EC) No 1207/2006, Annex XIII

4. First aid measures

4.1. Description of first aid measures

General	In all cases of doubt, or when symptoms persist, seek medical attention Never give anything by mouth to an unconscious person.
Inhalation	Remove to fresh air, keep patient warm and at rest, if breathing is irregular or stopped, administer artificial respiration. Give nothing by mouth. If unconscious place in recovery position and seek medical advice.
Skin contact	Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Eye contact	Remove contact lenses, irrigate copiously with clean, fresh water for at least 5 minutes, holding the eyelids apart and seek medical advice.
Ingestion	If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

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

No specific symptoms exist.

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

No specific treatment necessary.

5. Firefighting measures

5.1. Extinguishing media

Recommended extinguishing media : alcohol resistant foam, CO₂, powders, water spray. Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Fire will produce dense black smoke. Decomposition products can be hazardous. At high temperatures create: Carbon monoxide (CO), carbon dioxide (CO₂), smoke, nitrogen gases (NO_x).

5.3. Advice for firefighters

Appropriate breathing apparatus may be required. Closed containers exposed to fire should be cooled with water. Do not allow run-off from fire fighting to enter drains or water courses.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Safety Data Sheet

EcoTitan

Revision date 2013-01-31

Refer to protective measures listed in sections 7 and 8.

6.2. Environmental precautions

Do not allow to enter drains or watercourses. 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

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

Not applicable

7. Handling and storage

7.1. Precautions for safe handling

Avoid spilling, skin and eye contact. Avoid breathing dust, particulates and spray mist during application. Avoid inhalation of dust.

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.

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

Always keep in containers of same material as the original one.

Comply with the health and safety at work laws.

Store in accordance with applicable regulations for good chemical practice. Please note the instructions on the label. Store between 5 and 20 ° C in a dry and well ventilated place away from heat and direct sunlight.

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3. Specific end use(s)

Not applicable.

8. Exposure controls/personal protection

8.1. Control parameters

For the following substances in the product is an exposure limit in accordance with EH40/2005 Workplace exposure limits (2011), see under heading 3 substances that are marked with 2 below note

<u>Substance</u>	Cas.nr.	Level limit value (LLV)	Ceiling limit value (CLV)	Short-term value (STV)	Note*
2-(2-butoxyethoxy)ethanol	112-34-5	67,5 mg/m ³		101,2 mg/m ³	

8.2. Exposure controls

Ventilation

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.

Respiratory

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

Safety Data Sheet

EcoTitan

Revision date 2013-01-31

Gloves

For prolonged or repeated contact use gloves made of nitril. Instructions and information from the glove supplier on use, storage, maintenance and replacement must be followed.

Eye protection

At the risk of splashing, close-fitting goggles or face shield.

Skin Protection

Use anti-static clothing made of natural fibers or heat-resistant synthetic fibers.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Colourless liquid.		
Odour	Faint.		
Odour threshold	Not determined.		
pH	Not determined.		
Melting point/freezing point	Not determined.		
Initial boiling point and boiling range	Not determined.		
Evaporation rate	Not determined.		
Flammability (solid, gas)	Not determined.		
Vapour pressure	Not determined.		
Vapour density	Not determined.		
Partition coefficient: n-octanol/water	Not determined.	/of substance...	
Auto-ignition temperature	Not determined.		
Decomposition temperature	Not determined.	/of substance...	
Viscosity	Not determined		
Explosive properties	Not determined.	/of substance...	
Oxidising properties	Not determined.		
Solubility(ies) (g/100g H₂O, 20°C)	100 %.	/of substance...	
Relative density (g/ml)	1,05	Temperature (°C):	23
Flash point (°C)	105	Method:	ASTM 6450
Flammability or explosive limits, lower (%)	0,8		
Flammability or explosive limits, upper (%)	9,4		

9.2. Other information

VOC content (initial boiling point less than or equal to 250°C) g/l 30

10. Stability and reactivity

10.1. Reactivity

Not reactive

Safety Data Sheet

EcoTitan

Revision date 2013-01-31

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No dangerous reactions if handled according to Technical Information.

10.4. Conditions to avoid

Not applicable.

10.5. Incompatible materials

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions..

10.6. Hazardous decomposition products

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

11. Toxicological information

11.1. Information on toxicological effects

- a) Acute toxicity. Preparation is not classified as hazardous.

2-(2-butoxyethoxy)ethanol	LD50 oral rat	5660 mg/kg
	LD50 dermal rabbit	2700 mg/kg

- b) Skin corrosion/irritation. No information available.
- c) Serious eye damage/irritation. May cause irritation and reversible damage after contact with the eyes.
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- d) Respiratory or skin sensitisation. Repeated or prolonged contact may decrease the skin, resulting in non-allergic contact dermatitis and absorption through the skin.
- e) Germ cell mutagenicity. Not considered to be mutagenic.
- f) Carcinogenicity. Not considered to be carcinogenic.
- g) Rreproductive toxicity. No information available.
- h) STOT-single exposure. No information available.
- i) STOT-repeated exposure. No information available.
- j) Aspiration hazard. When spray painting see section 8.

Health hazards, general

There is no data available on the product itself. The preparation has been assessed and classified according to EU regulations.

Inhalation

Making health hazard of inhalation of spray mist is avoided.

Ingestion

Ingestion may cause nausea and vomiting.

Skin contact

No information available.

Eye Contact

Can be irritating and may cause redness and pain.

Health warnings

Safety Data Sheet

EcoTitan

Revision date 2013-01-31

No information available.

12. Ecological information

There is no data available on the product itself.

12.1. Toxicity

2-(2-butoxyethoxy)ethanol	LC50 96h fish (Inland Silverside)	2000 mg/L (marine water)
	LC50 96h fish (Bluegill - Lepomis macrochirus)	1300 mg/L Fresh water

12.2. Persistence and degradability

No information available.

2-(2-butoxyethoxy)ethanol	Readily biodegradable
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12.3. Bioaccumulative potential

2-(2-butoxyethoxy)ethanol	LogPow=0,6. BSF=2,9. Not expected to be bioaccumulative.
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12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

Not classified as PBT / vPvB of current EU criteria.

12.6. Other adverse effects

No information available.

13. Disposal considerations

13.1. Waste treatment methods

Do not allow into drains or water courses. Wastes and empty containers should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act.

The waste is classified non hazardous with EWC code 08 01 12.

Using information provided in this data sheet advice should be obtained from the Waste Regulation Authority, whether the special waste regulations apply

Instructions for emptying steel drums

Drums to be deposited for recycling must be drained carefully.

Evacuation must be effected at a temperature > 15 ° C. Cap- and slit drum emptied by turning them upside-down.

Drum should be slightly inclined (about 10 degrees) with a slit (opening) in the lowest position. Let the last residue of the product to flow out until the drum is drip free.

High viscosity products may require scraping. The scraping must take into account other information in this SDS.

14. Transport information

General

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.

Transport label

14.1. UN number: --

Safety Data Sheet

EcoTitan

Revision date 2013-01-31

14.2. UN proper shipping name: --

14.3. Transport hazard class(es): --

14.4. Packing group: --

14.5. Environmental hazards: --

EmS Nr.:--

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: --

15. Regulatory information

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

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 is designed according to EU Commission Regulation No. 1907/2006.

15.2 Chemical safety assessment

Chemical safety assessment has not been made for the mixture.

16. Other information

Full text of H- and R-phrases appearing in section 3:

Xi Irritant

R36 Irritating to eyes.

H319 Causes serious eye irritation.

The safety data sheet has been updated in its entirety.

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.