

Summary of product characteristics for a biocidal product

Product name: Tanalith E 9000

Product type(s): PT08 - Wood preservatives (Preservatives)

Authorisation number: LV/2018/MR/020

R4BP 3 asset reference number: LV-0019510-0000

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Administrative information

1.1. Trade names of the product

Tanalith E 9000
Tanalith E 9001
Tanalith E 9002
Tanalith E 9003

1.2. Authorisation holder

Name and address of the authorisation holder	Name	YOU Solutions Germany GmbH
	Address	Freundallee 9a DE 30173 Hannover Germany
Authorisation number		LV/2018/MR/020
R4BP 3 asset reference number		LV-0019510-0000
Date of the authorisation		13/09/2018
Expiry date of the authorisation		28/07/2025

1.3. Manufacturer(s) of the biocidal products

Name of the manufacturer	Arch Timber Protection Ltd
Address of the manufacturer	Hexagon Tower, Crumpsall Vale, Blackley M9 8GQ Manchester United Kingdom
Location of manufacturing sites	Leeds Road HD2 1YU Huddersfield United Kingdom

1.4. Manufacturer(s) of the active substance(s)

Active substance	1444 - Granulated copper
Name of the manufacturer	You Solutions Germany GmbH
Address of the manufacturer	Freundallee 9a DE 30173 Hannover Germany
Location of manufacturing sites	Sirius House, Delta Crescent WA5 7NS Warrington United Kingdom
	2511 Taylor Street, Fort Wayne 66802 Indiana United States

Active substance	51 - tebuconazole
Name of the manufacturer	Lanxess Deutschland GmbH
Address of the manufacturer	Kennedyplatz 1 56569 Cologne Germany
Location of manufacturing sites	Bayer Crop, Agricultural Division, P.O Box 4913, Hawthorn Road MO 64120-0013 Kansas United States

Active substance	48 - 1-[[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole (Propiconazole)
Name of the manufacturer	Janssen PMP, a division of Janssen Pharmaceutical NV
Address of the manufacturer	TURNHOUTSEWEG 30 B-2340 BEERSE Belgium
Location of manufacturing sites	Jiangsu Sevencontinent Green Chemical Ltd, North Area of Dongsha Chem-Zone, Zhangjagang, 215600 Jiangsu China

Active substance	48 - 1-[[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole (Propiconazole)
Name of the manufacturer	Lanxess Deutschland GmbH
Address of the manufacturer	Kennedyplatz 1 D-56569 Cologne Germany
Location of manufacturing sites	Jiangsu Yangnong Chemical Group Co., Ltd, Wenfeng Road, Yangzhou 225009 Jiangsu China
	Syngenta Crop Protection AG CH-1870 Monthey Switzerland

Active substance	20 - DDACarbonate
Name of the manufacturer	You Solutions Germany GmbH
Address of the manufacturer	Freundallee 9a 30173 Hannover Germany
Location of manufacturing sites	8316 West route 24 IL 61547 Mapleton United States

2. Product composition and formulation

2.1. Qualitative and quantitative information on the composition of the biocidal product

Common name	IUPAC name	Function	CAS number	EC number	Content (%)
Granulated copper		Active Substance			8
tebuconazole	1-(4-chlorophenyl)-4,4-dimethyl-3-(1,2,4-triazol-1-ylmethyl)pentan-3-ol	Active Substance	107534-96-3	403-640-2	0,168
1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole		Active Substance	60207-90-1	262-104-4	0,172
DDACarbonate	Reaction mass of N,N-didecyl-N,N-dimethylammonium carbonate and N,N-didecyl-N,N-dimethylammonium bicarbonate	Active Substance	894406-76-9	451-900-9	2,4
Monoethanolamine	2-aminoethanol	Non-active substance	141-43-5	205-483-3	26,91

2.2. Type of formulation

SL - Soluble concentrate

3. Hazard and precautionary statements

Hazard statements	<p>Causes serious eye damage.</p> <p>May cause respiratory irritation.</p> <p>Toxic to aquatic life with long lasting effects.</p>
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Precautionary statements

May be corrosive to metals. Contains propiconazole. May produce an allergic reaction.
Wear eye protection. Avoid breathing vapours. Use only outdoors or in a well-ventilated area. IF INHALED:Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER if you feel unwell. IF IN EYES:Rinse cautiously with water for several minutes.Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER. Store in a well-ventilated place.Keep container tightly closed. Store locked up. Dispose of contents to licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.. Avoid release to the environment. Collect spillage.

4. Authorised use(s)

4.1 Use description

Use 1 - Industrial use

Product type

PT08 - Wood preservatives (Preservatives)

Where relevant, an exact description of the authorised use

VII.1 Preventative - Use class 1 & 2: treatment of general timber (wood rotting fungi and wood destroying beetles) - Use class 3 treatment of general timber and railway sleepers (wood rotting fungi, wood destroying beetles and termites) - Use class 4 treatment of utility poles, fence posts and timber intended for jetties (wood rotting fungi, wood destroying beetles and termites)
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Target organism(s) (including development stage)

Scientific name: Coleoptera: Common name: Wood boring beetles Development stage: Larvae Scientific name: Basidiomycetes: Common name: Wood rotting basidiomycetes Development stage: Hyphae
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Scientific name: Isoptera:
Common name: Termites
Development stage: Adults

Scientific name: Ascomycetes/Deuteromycetes
Common name: Mould fungi
Development stage: Spores and spore producing structures

Field(s) of use

Indoor

Outdoor

- Use Class 1 (situation in which the wood or wood-based product is inside a construction, not exposed to the weather and wetting).
- Use Class 2 (situation in which the wood or wood-based product is under cover and fully protected from the weather but occasional, non-persistent, wetting may occur. This can include outdoor placement of timber under a roof to prevent any exposure to rain and driven rain).
- Use Class 3 (situation in which the wood or wood-based product is not covered and not in contact with the ground. It is either continuously exposed to weather or protected from the weather but subject to frequent wetting).
- Use Class 4 (situation in which the wood or wood-based product is in contact with the ground or fresh water and permanently exposed to wetting)

Application method(s)

Method: Closed system: vacuum impregnation

Detailed description:

Tanalith E 9000 is applied to timber via vacuum pressure impregnation. This is an automated process use to apply wood preservative using pressure to overcome resistance of the wood to deep penetration of preservative. The treatment is carried out in a airtight cylindrical steel pressure/vacuum vessels. The operation are carried out on a cyclical basis, with approximately 3 treatments per day. Each treatment around three hours.

Authorisation is granted for treatment of timber at the following retention rates in the analytical zone:

- Use class 1 & 2 treatment of general timber (wood rotting fungi and wood destroying beetles): 8.5 to 18.75 kg/m³
- Use class 1 and 2 treatment of general timber (termites): 11.6 – 18.75 kg/m³.
- Use class 3 treatment of general timber (wood rotting fungi and wood destroying beetles): 8.5 to 18.75 kg/m³
- Use class 3 treatment of general timber (termites): 11.9 to 18.75 kg/m³
- Use class 3 treatment of railway sleepers: 8.5 to 31.25 kg/m³
- Use class 3 general uses including treatment of utility poles at standard retention, fence posts and timber intended for jetties: 17.2 to 31.25 kg/m³.
- Use class 4 treatment of utility poles at high retention: 31.25 to 50kg/m³

Application rate(s) and frequencies

Application Rate: The application rate is ca. 400 L/m³ for the dilution 4.69% and 7.8% or 500L/m³ for a dilution of 10%.

Dilution (%): 1.4 to 10

Number and timing of application:

The timber is treated once before place into service. No Additional treatment is needed.

Category(ies) of users

Industrial

Trained professional

Pack sizes and packaging material

1. HDPE IBC (intermediate bulk container) 1000 L
2. Stainless steel bulk tanker 30,000 L*

*Not for storage. Only for transportation

4.1.1 Use-specific instructions for use

All uses except treatment of utility poles at high retention: Dilute to 1.4-7.8 % with water and apply at 8.5-18.75 kg/m³ for Use Class 1/2/3 and at 17.2 to 31.25 kg/m³ for Use Class 4.

Treatment of utility poles at high retention: Dilute to 10 % with water and apply at 31.25 to 50 kg/m³.

Mixing and Transfer of Concentrate:

The Tanalith E 9000 concentrate easily mixes with water.

1. Add the required amount of water to the mixing tank.
2. Transfer the required amount of concentrate Tanalith E 9000 from the Intermediate Bulk Container (IBC) to the tank by opening the IBC hand valve or operating the dosing pump. Where dosing systems are used these take the required amount of concentrate automatically from the IBC and mix it with a flow of water going directly to the storage tank. In such cases there is no mixing tank.
3. Finally, transfer the solution into the storage tank if separate from the mixing tank, and mix the ready to use solution by transferring to and from the treatment vessel several times to ensure good mixing.
4. The solution strength should be measured following treatment solution preparations to ensure that it is correct and adjustments made if required.

Timber should be surface dry before delivery.

When using to not eat, drink or smoke.

4.1.2 Use-specific risk mitigation measures

For the prevention of wood rotting fungi including mould fungi (softwood and hardwood), soft rot micro-fungi (softwood) and highly copper tolerant strains of *Fibroporia* (*Antrrodia*) spp, and *Serpula himantioides* fungi (softwood) and wood destroying insects (beetles and termites).

For industrial use only.

For application by vacuum pressure impregnation.

For use on wood in use classes 1, 2 3 and 4

Use on timber intended for sheet piling is not permitted.

The product is to be diluted in water (dilution to 10% w/w for treatment of utility at high retention or dilution to 1.4 to 7.8% w/w with water for all other uses) and applied at the following retentions in the analytical zone:

- Use class 1 & 2 treatment of general timber (wood rotting fungi and wood destroying beetles): 8.5 to 18.75 kg/m³
- Use class 1 & 2 treatment of general timber (termites): 11.6 – 18.75 kg/m³.
- Use class 3 treatment of general timber (wood rotting fungi and wood destroying beetles): 8.5 to 18.75 kg/m³
- Use class 3 treatment of general timber (termites): 11.9 to 18.75 kg/m³
- Use class 3 treatment of railway sleepers: 8.5 to 31.25 kg/m³
- Use class 4 general uses including treatment of utility poles at standard retention, fence posts and timber intended for jetties: 17.2 to 31.25 kg/m³.
- Use class 4 treatment of utility poles at high retention: 31.25 to 50 kg/m³

[UK label]: The COSHH (Control of Substances Hazardous to Health) Regulations 2002 (as amended) apply to the use of this product at work.

Guidance on the safe use of wood preservatives is provided in leaflet WIS 29 ("Occupational hygiene and health surveillance at industrial treatment plants") at www.hse.gsi.gov.uk.

The following PPE requirements are appropriate for industrial users of 'Tanalith E 9000'.

- For all uses except treatment of utility poles at high retention (treatment solutions containing up to 7.8% of the product): Wear new gloves, coated coveralls and boots when carrying out treatment operations.
- For treatment of utility poles at high retention (treatment solutions containing 10% of the product): Wear new gloves,

impermeable coveralls and boots when carrying out treatment operations.

- The use of new gloves, impermeable coveralls and boots with the addition of eye / face protection is appropriate when handling the concentrate.

Avoid excessive contamination of overalls.

Wash hands and exposed skin before meals and after use.

Keep in a safe place.

Do not contaminate ground, waterbodies or watercourses with chemicals or used container.

Dispose of surplus chemical, contaminated materials (including sawdust) and the empty container safely using a method approved by the waste disposal authority.

All treatment of timber must be undertaken at industrial sites where:

Application processes must be carried out within a contained area; situated on impermeable hard standing, with bunding to prevent run-off and a recovery system in place (e.g. sump).

Storage of treated wood must be either;

-undercover with a recovery system in place (e.g. sump) or

-on permeable hard standing and bunded to prevent run-off with a recovery system in place (e.g. sump).

4.1.3 Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

Contact with skin: Remove contaminated clothing and shoes immediately. Drench

affected skin with plenty of water. Then wash with soap and water. Wash Contaminated Clothing before re-use.

Contact with eyes: If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes. Irrigate eyes thoroughly whilst lifting eyelids. Seek immediate medical attention.

Ingestion: Do not induce vomiting, give 250 ml water to drink sipped slowly. Never give anything by mouth to an unconscious person. Seek medical advice immediately.

Inhalation: Remove patient to fresh air. Keep warm and at rest, in a half upright position. Loosen clothing. Seek medical advice.

Environmental precautions: Shut off source of leak if safe to do so. If spillage occurs at a timber treatment plant site follow on site emergency procedures. If contamination of drainage systems or water course occurs, immediately inform appropriate authorities.

Clean-up methods: Recover the product where possible. Absorb spillage in earth or sand. Place in an appropriate container. Seal containers and label them. Remove contaminated material to safe location for subsequent disposal.

4.1.4 Where specific to the use, the instructions for safe disposal of the product and its packaging

Empty IBC's should be washed clean and are returned to the manufacturer for recycling.

Washings may be used in treatment solution make up. Do not dispose of clean-up water down the drain.

IBC's must not be re-used for drinking water or containing foodstuffs.

Concentrated and dilute Tanalith E 9000 solutions should be disposed of in accordance with local authority requirements. Normally in such cases the treatment plant management would first contact the product supplier to discuss re-use.

Treated wood waste should be disposed of by a method approved by the local authority.

Treated waste should not be used for animal bedding.

4.1.5 Where specific to the use, the conditions of storage and shelf-life of the product under normal conditions of storage

Shelf life of 2 years.

5. General directions for use

5.1. Instructions for use

See Industrial use.

5.2. Risk mitigation measures

See industrial use.

5.3. Particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

See industrial use.

5.4. Instructions for safe disposal of the product and its packaging

See industrial use.

5.5. Conditions of storage and shelf-life of the product under normal conditions of storage

See industrial use.

6. Other information

- DDACarbonate in Tanalith E 9000: 1.8% w/w (pure), 2.4 % w/w (TC), 4% (TK)