Summary of product characteristics for a biocidal product

Product name: TEKNOL AQUA 1415-01

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

PT08 - Wood preservatives (Preservatives)

Authorisation number: FI-2020-0014

R4BP 3 asset reference number: FI-0024241-0000

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Administrative information

1.1. Trade names of the product

TEKNOL AQUA 1415-01

1.2. Authorisation holder

Name and address of the authorisation holder	Name	Teknos A/S
	Address	Industrivej 19 6580 Vamdrup Denmark
Authorisation number	FI-2020-0014	
R4BP 3 asset reference number	FI-0024241-0000	
Date of the authorisation	01/04/2019	
Expiry date of the authorisation	31/12/2026	

1.3. Manufacturer(s) of the biocidal products

Name of the manufacturer	Teknos A/S
Address of the manufacturer	Industrivej 19 DK-6580 Vamdrup Denmark
Location of manufacturing sites	Industrivej 19 DK-6580 Vamdrup Denmark

Name of the manufacturer	Teknos Group Oy
Address of the manufacturer	Takkatie 3 FI-05201 HELSINKI Finland
Location of manufacturing sites	Perämatkuntie 12, PL 14 FI-05201 RAJAMÄKI Finland

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

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, division of Janssen Pharmaceutica NV
Address of the manufacturer	Turnhoutseweg 30 B-2340 Beerse Belgium
Location of manufacturing sites	Jiangsu Sevencontinent Green Chemical Co. Ltd.; North Area of Dongsha Chem-Zone. 215600 Zhangjiagang China

Active substance	1342 - Permethrin
Name of the manufacturer	Tagros Chemicals India Limited
Address of the manufacturer	“Jhaver Centre”, Rajah Annamalai Building, IV Floor, 72, Marshalls Road Egmore - 600008 Chennai India
Location of manufacturing sites	A4 / 1 & 2 SIPCOT INDUSTRIAL COMPLEX, PACHAYANKUPPAM 607 005 CUDDALORE India

Active substance	39 - 3-iodo-2-propynylbutylcarbamate (IPBC)
Name of the manufacturer	Troy Corporation
Address of the manufacturer	8 Vreeland Road, Florham Park 07932 New Jersey United States
Location of manufacturing sites	One Avenue L 07105 New Jersey United States

Active substance	39 - 3-iodo-2-propynylbutylcarbamate (IPBC)
Name of the manufacturer	Troy Chemical Europe BV
Address of the manufacturer	Uiverlaan 12E 3145 XN Maassluis Germany
Location of manufacturing sites	Industriepark 23, Horhausen D-56593 Horhausen Germany

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 (%)
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	0,95
Permethrin		Active Substance	52645-53-1	258-067-9	0,32
3-iodo-2-propynylbutylcarbamate (IPBC)		Active Substance	55406-53-6	259-627-5	0,31

2.2. Type of formulation

AL - Any other liquid

3. Hazard and precautionary statements

Hazard statements

Contains permethrin, propiconazole, IPBC and 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

May damage the unborn child.

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

Precautionary statements

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid release to the environment. Wear protective gloves. Wear protective clothing. IF exposed or concerned:Get medical advice. Collect spillage. Store locked up. Dispose of contents to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

4. Authorised use(s)

4.1 Use description

Use 1 - Use # 1 – Professional

Product type	PT08 - Wood preservatives (Preservatives)
Where relevant, an exact description of the authorised use	VII.1 Preventative
Target organism(s) (including development stage)	Scientific name: Fungi: Common name: Wood rotting fungi Development stage: Scientific name: Fungi: Common name: wood discolouring fungi Development stage: Scientific name: Reticulitermes sp. Common name: Termites Development stage: Scientific name: Hylotrupes bajulus L. Common name: Wood boring beetles Development stage: all Scientific name: Anobium punctatum De Geer Common name: Wood boring beetles Development stage: all Scientific name: Lyctus brunneus Common name: Wood boring beetles Development stage: all
Field(s) of use	Indoor Outdoor

	IV.1 Indoor use IV.2 Outdoor use For use on softwood and hardwood in: • 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). The following conditions apply for Use Class 3 application: • In-situ outdoor brush/roller and dip application must be subject to mitigation measures that prevent contamination of the ground.
Application method(s)	Method: Open system: brush treatment Detailed description: VI.1.1 Brush treatment – brush and roller Method: Open system: dip treatment Detailed description: VI.1.5 Dip treatment – manual dipping
Application rate(s) and frequencies	Application Rate: 100-150 g/m² Dilution (%): 100 Number and timing of application: 100 - 150 g/m² by 1-2 applications. A top coat must be applied for wood exposed to weathering. Application rates for wood rotting fungi, blue stain fungi and wood boring beetles 100g/m2; for termites 150g/m2. Application Rate: 100 - 150 g/m² Dilution (%): 100 Number and timing of application: 100 - 150 g/m² by 1-2 applications. A top coat must be applied for wood exposed to weathering. Application rates for wood rotting fungi, blue stain fungi and wood boring beetles 100g/m²; for termites 150g/m².
Category(ies) of users	Professional
Pack sizes and packaging material	3, 10 and 20 L plastic (HDPE) can/drum with plastic (HDPE or LPDE) cap. 3, 10, 20 and 120 L metal (tin plate) can with metal (tin plate) cap.

4.1.1 Use-specific instructions for use

Pre-treatment: The wood must be clean and free from wood dust and contamination. The moisture content of the wood should be: Windows & doors: Approximately 13 % and should not exceed 15 %

Cladding: Approximately 13 % and should not exceed 20 %
The product is delivered ready for use. Stir the product well before use.
Due to evaporation, the solid content of the liquid must be adjusted with water regularly. This adjustment is based on the measured solid of the liquid in the system.
Optimum temperature for products and surroundings is 18-22°C
Optimum relative air humidity is approximately 50 %
Drying time determined at 20° C and 50 % relative humidity:
Dry to handle – 1-2 hours
Dry to recoat – 2-3 hours
The drying time can be reduced using special drying systems to force drying. The drying times are approximate and may vary according to wood quality, temperatures, humidity and ventilation.
Equipment to be cleaned with water. Contaminated water must be disposed of in a safe way.
Application by manual dipping must be carried out within a contained area, situated on an impermeable surface. Storage of treated wood must either be under cover with a recovery system in place or on an impermeable surface.
A topcoat (minimum total 175 g/m², achieved by 1-2 applications, or minimum dry film thickness in total of 46 µm, achieved by 1-2 applications) must be applied to treated timber in situations where it would be exposed to weathering.
The topcoat should either be applied prior to the use of the treated timber in situations exposed to weathering, or in the case of in situ applications, prior to the weathering events themselves (e.g. rainfall).
The topcoat should have no biocidal function and must be regularly maintained.
For in situ use do not contaminate plant life and remove or cover aquariums/fish bowls/ponds before application.
Always read the label or leaflet before use and follow all the instructions provided.
Inform the registration holder if the treatment is ineffective.

4.1.2 Use-specific risk mitigation measures

Wear protective coverall (coverall material to be specified by the authorisation holder within the product information) and protective chemical resistant gloves (glove material to be specified by the authorisation holder within the product information) when handling freshly treated wet timber or handling contaminated surfaces.
Wear protective coverall (at least type 6, EN 13034) which is impermeable for biocidal products (coverall material to be specified by the authorisation holder within the product information) and protective chemical resistant gloves (glove material to be specified by the authorisation holder within the product information) when cleaning out dipping tanks and other vessels after use.
Wear protective coverall (coverall material to be specified by the authorisation holder within the product information) and protective chemical resistant gloves (glove material to be specified by the authorisation holder within the product information) during manual dipping.
Wear protective chemical resistant gloves (glove material to be specified by the authorisation holder within the product information) during product handling.
Avoid excessive contamination of coveralls.
Handle product and dry freshly treated wood in areas with good ventilation.
During in-situ application to timbers and whilst surfaces are drying, do not contaminate soil. All losses of the product have to be contained (e.g. by appropriate covering of soil with a tarpaulin) and disposed of in a safe way.
For in situ use do not contaminate plant life and remove or cover aquariums/fish bowls/ponds before application.
Do not use on wood which may come into direct contact with food, feeding stuffs and livestock animals.
Treated wood should not be intended for uses involving contact with food, feed or livestock.
WASH HANDS AND EXPOSED SKIN before meals and after use.
UNPROTECTED PERSONS AND ANIMALS SHOULD BE KEPT AWAY FROM TREATED AREAS FOR 48 HOURS OR UNTIL SURFACES ARE DRY.
COVER ALL WATER STORAGE TANKS before application.
Product must not be applied near to or over water bodies/surface waters.

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

See directions for use.

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

See directions for use.

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

See directions for use.

4.2 Use description

Use 2 - Use # 2 – Industrial use

Product type	PT08 - Wood preservatives (Preservatives)
Where relevant, an exact description of the authorised use	VII.1 Preventative
Target organism(s) (including development stage)	Scientific name: Fungi: Common name: Wood rotting fungi Development stage: Scientific name: Fungi: Common name: wood discolouring fungi Development stage: Scientific name: Reticulitermes sp. Common name: Termites Development stage: Scientific name: Hylotrupes bajulus L. Common name: Wood boring beetles Development stage: all Scientific name: Anobium punctatum De Geer Common name: Wood boring beetles Development stage: all Scientific name: Lyctus brunneus Common name: Wood boring beetles Development stage: all
Field(s) of use	Indoor Outdoor IV.1 Indoor use IV.2 Outdoor use For use on softwood and hardwood wood in: • 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).
Application method(s)	Method: Open system: dip treatment Detailed description: VI.1.5 Dip treatment – automated dipping Flow coating - deluging

Application rate(s) and frequencies	Application Rate: 100 - 150 g/m² Dilution (%): 100 Number and timing of application: 100 - 150 g/m² by 1-2 applications. A top coat must be applied for wood exposed to weathering. Application rates for wood rotting fungi, blue stain fungi and wood boring beetles 100g/m²; for termites 150g/m².
Category(ies) of users	Industrial
Pack sizes and packaging material	3, 10, 20 and 25 L plastic (HDPE) can/drum with plastic (HDPE or LPDE) cap 1000 L plastic (HDPE) IBC with plastic (HDPE or LPDE) opening device 3, 10, 20, 120 L metal (tin plate) can/drum with metal (tin plate) cap.

4.2.1 Use-specific instructions for use

Pre-treatment:
The wood must be clean and free from wood dust and contamination. The moisture content of the wood should be:
Windows & doors: Approximately 13 % and should not exceed 15 %
Cladding: Approximately 13 % and should not exceed 20 %
The product is delivered ready for use. Stir the product well before use.
Due to evaporation, the solid content of the liquid must be adjusted with water regularly. This adjustment is based on the measured solid of the liquid in the system.
Optimum temperature for products and surroundings is 18-22°C
Optimum relative air humidity is approximately 50 %
Drying time determined at 20° C and 50 % relative humidity:
Dry to handle – 1-2 hours
Dry to recoat – 2-3 hours
The drying time can be reduced using special drying systems to force drying. The drying times are approximate and may vary according to wood quality, temperatures, humidity and ventilation.
Equipment to be cleaned with water. Contaminated water must be disposed of in a safe way.
With regard to applications by automatic dipping, TEKNOL AQUA 1415-01 must only be used in fully automated dipping processes where all steps in the treatment and drying process are mechanised and no manual handling takes place, including when the treated articles are transported through the dip tank to the draining/drying and storage (if not already surface dry before moving to storage).
Where appropriate, the wooden articles to be treated must be fully secured (e.g. via tension belts or clamping devices) prior to treatment and during the dipping process, and must not be manually handled until after the treated articles are surface dry.
Flow coating: Use mechanical systems for transport the freshly treated wood to drip or drying zone. Do not handle the treated wood manually until the surface of the wood is dry.
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).
Freshly treated timber shall be stored after treatment under shelter AND on impermeable hard standing to prevent losses to soil, sewer, or water, and that any losses from the application of the product shall be collected for reuse or disposal.
Storage of treated wood must either be under cover with a recovery system in place or on an impermeable surface.
A topcoat (minimum total 175 g/m², achieved by 1-2 applications, or minimum dry film thickness in total of 46 µm, achieved by 1-2 applications) must be applied to treated timber in situations where it would be exposed to weathering.
The topcoat should either be applied prior to the use of the treated timber in situations exposed to weathering, or in the case of ‘new build’ scenarios, or in situ applications of this product, prior to the weathering events themselves (e.g. rainfall).
The topcoat should have no biocidal function and must be regularly maintained.
Always read the label or leaflet before use and follow all the instructions provided.
Inform the registration holder if the treatment is ineffective.

4.2.2 Use-specific risk mitigation measures

Wear protective coverall (coverall material to be specified by the authorisation holder within the product information) and protective chemical resistant gloves (glove material to be specified by the authorisation holder within the product information) when handling freshly treated wet timber or handling contaminated surfaces.
Wear protective coverall (at least type 6, EN 13034) which is impermeable for biocidal products (coverall material to be specified by the authorisation holder within the product information) and protective chemical resistant gloves (glove material to be specified by the authorisation holder within the product information) when cleaning out dipping tanks and other vessels after use.
Flow coating:

- Use automatic dosing system.
- Wear protective chemical resistant gloves during product handling phase (glove material to be specified by the authorisation holder within the product information).
- A protective coverall (at least type 6, EN 13034) shall be worn.

Avoid excessive contamination of coveralls.
Handle product and dry freshly treated wood in areas with good ventilation.
All large scale dipping and automated (superficial) pre-treatment of timber at product retention of 150 g / m2 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).
- Freshly treated timber shall be stored after treatment under shelter AND on impermeable hard standing to prevent losses to soil, sewer, or water, and that any losses from the application of the product shall be collected for reuse or disposal.

Do not use on wood which may come into direct contact with food, feeding stuffs and livestock animals.
Treated wood should not be intended for uses involving contact with food, feed or livestock.
WASH HANDS AND EXPOSED SKIN before meals and after use.
UNPROTECTED PERSONS AND ANIMALS SHOULD BE KEPT AWAY FROM TREATED AREAS FOR 48 HOURS OR UNTIL SURFACES ARE DRY.
COVER ALL WATER STORAGE TANKS before application.
Product must not be applied near to or over water bodies/surface waters.

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

See directions for use.

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

See directions for use.

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

See directions for use.

5. General directions for use

5.1. Instructions for use

See authorised uses.

5.2. Risk mitigation measures

See authorised uses.

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

First aid

General: In case of accident, suspected exposure or if you feel unwell seek medical advice immediately (show the label where possible). Never give anything by mouth to unconscious person.

- Inhalation: remove victim to fresh air and keep at rest in a position comfortable for breathing.

- Skin contact: remove contaminated clothing and shoes at once. Skin that has come in contact with the material must be washed thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

- Eye contact: remove contact lenses. Flush eyes immediately with plenty of water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. If eye irritation persists get medical attention.

- Ingestion: give the person plenty to drink and stay with the person. If the person feels unwell, contact a doctor immediately and take the safety data sheet or the label from the product with you. Do not induce vomiting unless recommended by the doctor. Hold head facing down so that no vomit runs back into the mouth and throat. UK medical professionals should contact the National Poisons Information Service (www.npis.org) for further advice.

3-IODO-2-PROPYNYL-N-BUTYLCARBAMATE is a carbamate compound which has weak anticholinesterase activity. DO NOT USE if under medical advice not to work with anticholinesterase compounds.

Pyrethroids may cause paresthesia (burning and prickling of the skin without irritation). If symptoms persist: Get medical advice.

Environment

- Avoid discharge to lakes, streams, sewers, etc. In the event of a leakage to the surroundings, contact the local environmental authorities. Consider putting up waste collecting trays/basins to prevent leakage to the surroundings.

- Methods and material for containment and cleaning up: use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations. Cleaning should be done as far as possible using normal cleaning agents. Solvents should be avoided.

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

This material and its container must be disposed of in a safe way.

Do not empty into drains.

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

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

The product must be stored at temperatures between 5°C and 30°C
Keep container tightly closed.
Must only be kept in original packaging.
Protect from frost.
Keep in a safe place.
Shelf life 2 years.

6. Other information