

Summary of product characteristics for a biocidal product

Product name: Vacsol Aqua 6118

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

Authorisation number: IE/BPA 70633

R4BP 3 asset reference number: IE-0025067-0000

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Administrative information

1.1. Trade names of the product

Vacsol Aqua 6118
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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	IE/BPA 70633	
R4BP 3 asset reference number	IE-0025067-0000	
Date of the authorisation	11/11/2020	
Expiry date of the authorisation	02/11/2030	

1.3. Manufacturer(s) of the biocidal products

Name of the manufacturer	Arch Timber Protection Ltd (A Lonza company)
Address of the manufacturer	Wheldon Road WF10 2JT Castleford United Kingdom
Location of manufacturing sites	Leeds Road HD2 1YU Huddersfield United Kingdom

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

Active substance	1452 - Penflufen
Name of the manufacturer	LANXESS Deutschland GmbH
Address of the manufacturer	Kennedyplatz 1 D-56569 Koln Germany
Location of manufacturing sites	Bayer AG, Alte Heerstr 41538 Dormagen Germany
Active substance	1342 - Permethrin
Name of the manufacturer	Tagros Chemicals India Limited
Address of the manufacturer	Jhaver Center, IV floor, Rajah Annamalai Building No. 72, Marshalls Road, Egmore 600 008 Chennai India
Location of manufacturing sites	Tagros Chemicals India Limited A4/1&2 Sipcot Industrial Complex, Pachayankuppam, 607 005 Cuddalore, Tamil Nadu India
Active substance	1342 - Permethrin
Name of the manufacturer	LANXESS Deutschland GmbH
Address of the manufacturer	Kennedyplatz 1 D-56569 Koln Germany
Location of manufacturing sites	Bayer Vapi Private Limited, Plot # 306/3 II Phase, GIDC, Vapi 396 195 Vapi, Gujarat India

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 (%)
Penflufen		Active Substance	494793-67-8		0,38
Permethrin		Active Substance	52645-53-1	258-067-9	0,4
Dimethyl myristyl amine, distilled; [N,N-dimethyl-C12-16-(even numbered)-alkyl-1-	Dimethyl myristyl amine, distilled; [N,N-dimethyl-C12-16-(even numbered)-alkyl-1-	Non-active substance	68439-70-3	270-414-6	4,8
Diethylene glycol monophenyl ether	2-(2-Phenoxyethoxy)ethanol	Non-active substance	104-68-7	203-227-5	1,92
Ethoxylated iso-tridecanol		Non-active substance	69011-36-5	500-241-6	3

2.2. Type of formulation

SL - Soluble concentrate

3. Hazard and precautionary statements

Hazard statements

Causes skin irritation.
Causes serious eye damage.
Very toxic to aquatic life.
Toxic to aquatic life with long lasting effects.
Contains Permethrin. May produce an allergic reaction.

Precautionary statements

Wash hands and skin thoroughly after handling.
Wear protective gloves.
Wear protective clothing.
Wear eye protection.
Wear face protection.
IF ON SKIN:Wash with plenty of water and soap.
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.
If skin irritation occurs:Get medical advice.
Take off contaminated clothing.And wash it before reuse.
Collect spillage.
Dispose of contents to approve waste disposal plant.
Avoid release to the environment.

4. Authorised use(s)

4.1 Use description

Use 1 - Industrial preventative treatment

Product type	PT08 - Wood preservatives (Preservatives)
Where relevant, an exact description of the authorised use	Fungicide Insecticide
Target organism(s) (including development stage)	Scientific name: Hylotrupes bajulus L. Common name: House longhorn beetle Development stage: Larvae Scientific name: Basidiomycetes: Common name: Brown rot fungi Development stage: Hyphae
Field(s) of use	Indoor Indoor application of the wood preservative. Vacsol Aqua 6118 is a preventative wood preservative treatment against larvae of the house longhorn beetle (Hylotrupes bajulus) and brown rot fungi. The intended uses for Vacsol Aqua 6118 are applications of: Double vacuum and vacuum pressure application- Preventative treatment of wood and constructional timbers (all categories) in Use Classes 1, 2 & 3 and Dipping- Deluge/Enclosed Spray - Preventative treatment of wood and constructional timbers (all categories) in Use Classes 1 & 2 The product can be applied to both softwood and hardwood. 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).
Application method(s)	Method: Closed system: vacuum impregnation Detailed description: Vacuum pressure Impregnation (High pressure) Method: Closed system Detailed description: Double vacuum (Low pressure) Method: Open system: dip treatment Detailed description: Industrial dipping Method: Spraying Detailed description: Deluge / Enclosed spray

Application rate(s) and frequencies

Application Rate: Vacuum pressure (high pressure): 3.7 – 4.65 kg m-3
Dilution (%): Dilution 0.62 to 1.25
Number and timing of application:
One application before timber is placed into service.

Application Rate: Dubble vacuum (low pressure): 3.7 – 4.65 kg m-3.
Dilution (%): Dilution 1.50 to 5
Number and timing of application:
One application before timber is placed into service.

Application Rate: Industrial dipping: 10 g m-2
Dilution (%): Dilution 10
Number and timing of application:
One application before timber is placed into service.

Application Rate: Spraying: 10 g m-2
Dilution (%): Dilution: 10-20
Number and timing of application:
One application before timber is placed into service.

Category(ies) of users

Industrial

Pack sizes and packaging material

1. HDPE IBC (1000 L)
2. HDPE IBC (640L)
3. HDPE Poly Keg (25L)

4.1.1 Use-specific instructions for use

see General directions for use

4.1.2 Use-specific risk mitigation measures

see General directions for use

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 General directions for use

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

see General 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 General directions for use

5. General directions for use

5.1. Instructions for use

For industrial use only.

For the prevention of brown rot fungi and larvae of *Hylotrupes bajulus* (House longhorn beetle):

- The product is supplied as a concentrate to be applied to timber by vacuum pressure, double vacuum, dipping or enclosed deluge spray systems after dilution with water.
- 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).
- The IBC containing the Vacsol Aqua 6118 is connected via a bottom locking run off valve directly to the treatment plant system.

With the aid of automatic dosage equipment, concentrate is pumped from the IBC to the mixing tank or storage tank, along with the exact amount of water needed to make the relevant volume of treatment solution. The storage tank is topped up as required.

- For double vacuum and vacuum pressure treatment, the diluted ready to use product is pumped into the impregnation cylinder to carry out the desired treatment.
- For enclosed deluge systems the diluted ready to use product is applied in an enclosed chamber by means of flow coat or automatic spraying. Timber enters and exits the system on a conveyor with no manual handling.
- Dipping is conducted only in industrial dip plants with no manual dipping, ie all wood is mechanically handled during the process.

The Product should be diluted with water and applied at a retention rate as follows: Expressed as kg m⁻³ as concentrate in the analytical zone.

- An anti-foam will be required for double-vacuum, high pressure and spray applications. It may not be required for dipping. A silicon antifoam should be used at between 0.005-0.025% (depending on the solution strength).

Double vacuum (Low pressure)

Dilute to 1.5 - 5%:

-Use class 1, 2 and 3, retentions: 3.7 – 4.65 kg m⁻³.

Vacuum pressure (High pressure)

Dilute to 0.62 - 1.25%.

-Use class 3, retentions: 3.70 – 4.65 kg m⁻³.

Dipping

Dilute to 10%.

-Use class 1 and 2, retentions: 10 g m⁻²

Deluge/ Enclosed Spray

Dilute to 10 - 20%

-Use class 1 and 2, retentions: 10 g m⁻²

Freshly treated timber should be placed on an impermeable hard standing with bunding to prevent run-off that could contaminate ground, waterbodies or watercourses. Any run off from treated timber should be recovered.

5.2. Risk mitigation measures

All vacuum-pressure impregnation, double-vacuum, dipping and deluge treatment must only be undertaken at industrial sites where:

- Application processes are 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).
- Application solutions must be collected and reused or disposed of as hazardous waste. They must not be released to soil, ground- and surface water or any kind of sewer.
- Do not apply near bodies of surface water or in the area of water protection zones. [where relevant provide for appropriate distance stipulations]
- 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.
- Treated timber must not be placed over/near surface water bodies

The following phrases must appear on the label:

- Wear protective chemical resistant gloves* (glove material to be specified by the authorisation holder within the product information). *new gloves must be worn at the start of each treatment cycle
- A protective coverall (at least type X, EN XXXXX) which is impermeable for the biocidal product shall be worn (coverall material to be specified by the authorisation holder within the product information)
- The use of eye protection during handling of the product is mandatory

The following PPE requirements are appropriate for industrial users for the different types of treatment of Vacsol Aqua 6118:

- Automated dipping - impermeable coveralls and new gloves every cycle
- Deluge / enclosed spray treatment - coated coveralls and new gloves every cycle
- Double vacuum pressure treatment - coated coveralls and new gloves every cycle
- Vacuum pressure treatment - gloves

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

IF INHALED: If symptoms occur call a POISON CENTRE or a doctor.
IF SWALLOWED: Immediately rinse mouth. Give something to drink, if exposed person is able to swallow. Do NOT induce vomiting. Call 112/ambulance for medical assistance.
IF ON SKIN: Take off all contaminated clothing and wash it before reuse. Wash skin with soap and water. If skin irritation or rash occur: Get medical advice.
IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Call 112/ambulance for medical assistance.

N-11: Application solutions must be collected and reused or disposed of as hazardous waste. They must not be released to soil, ground- and surface water or any kind of sewer.

N-13: All industrial 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).

N-19: Freshly treated timber must be stored after treatment under shelter or on impermeable hard standing, or both, to prevent direct losses to soil, sewer or water and that any losses of the product shall be collected for reuse or disposal.

N-21: Do not apply near bodies of surface water or in the area of water protection zones. [where relevant provide for appropriate distance stipulations].

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

Rinse empty container with water and reuse water in treatment process.
Container's (IBC's) should be returned to the supplier for recycling. If this is not possible the container should be disposed of via an authorised waste disposal company in accordance with national legislation.

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

Shelf life of 2 years

6. Other information

Through their customer service activities and in their literature for treated wood, the authorization holder should inform about the restrictions of the treated wood, i.e. that the product should **not** be used:

- for treatment of timber placed over/near surface water bodies

The mixture contains 2,06% components with unknown acute oral toxicity, 26,75% components with unknown acute inhalation toxicity and 19,27% components with unknown acute dermal toxicity.

Content of the substances of concern (SoC), worst case:

Dimethyl myristyl amine, distilled; [N,N-dimethyl-C12-16-(even numbered)-alkyl-1-amines: 4.80 %

Diethylene glycol monophenyl ether: 1.92 %

Ethoxylated iso-tridecanol: 3.00 %

2-Phenoxyethanol: 3.84 %