

Summary of product characteristics for a biocidal product

Product name: Embasol Houtwormdood

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

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Authorisation number:

R4BP 3 asset reference number: NL-0017730-0000

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Administrative information

1.1. Trade names of the product

Embasol Houtwormdood
Conserduc Per 100
Vazor Anti Houtaantaster
Embasol Houtwormdood
Embasol Curatif
Vazor Anti Houtaantaster
Embasol Holzwurmtod
Embasol Farontó Rovarok Ellen
Embasol Zabójca Szkodników Drewna

1.2. Authorisation holder

Name and address of the authorisation holder	Name	Hoetmer b.v.
	Address	Nijverheidstraat 12 NL-3316 AP Dordrecht Netherlands
Authorisation number		
R4BP 3 asset reference number	NL-0017730-0000	
Date of the authorisation	24/12/2020	
Expiry date of the authorisation	23/12/2030	

1.3. Manufacturer(s) of the biocidal products

Name of the manufacturer	Kurt Obermeier GmbH & Co. KG
Address of the manufacturer	Berghäuser Straße 70 D-57319 Bad Berleburg-Raumland Germany
Location of manufacturing sites	Industriestraße 1 D - 57319 Bad Berleburg-Raumland Germany

Name of the manufacturer	Glanssa Hygiëne Products b.v.
Address of the manufacturer	Curieweg 11 NL-4691 ST Tholen Netherlands
Location of manufacturing sites	Curieweg 11 NL-4691 ST Tholen Netherlands

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

Active substance	1342 - Permethrin
Name of the manufacturer	LANXESS Deutschland GmbH
Address of the manufacturer	Kennedyplatz 1 D-50679 Köln Germany
Location of manufacturing sites	Bayer Vapi Private Ltd. - Plot 306/3, II Phase, GIDC Vapi 396 195 Gujarat India

Active substance	1342 - Permethrin
Name of the manufacturer	Tagros Chemicals India Limited
Address of the manufacturer	72, Marshalls Road Jhaver Centre, Rajah Annamalai Building Egmore - 600008 Chennai, Tamil Nadu India
Location of manufacturing sites	A4 / 1 & 2 SIPCOT INDUSTRIAL COMPLEX, PACHAYANKUPPAM 607 005 Cuddalore, Tamil Nadu 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 (%)
Permethrin		Active Substance	52645-53-1	258-067-9	0,269
Distillates(petroleum), hydrotreated light	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	Non-active substance	64742-47-8	265-149-8	95,731

2.2. Type of formulation

AL - Any other liquid

3. Hazard and precautionary statements

Hazard statements

May be fatal if swallowed and enters airways.
Very toxic to aquatic life with long lasting effects.
Repeated exposure may cause skin dryness or cracking.
Contains permethrin. May produce an allergic reaction.

Precautionary statements

Avoid release to the environment.
IF SWALLOWED:
Immediately call a doctor.
Do NOT induce vomiting.
Collect spillage.
Store locked up.
Dispose of contents to a collection point for hazardous or special waste.
Dispose of container to a collection point for hazardous or special waste..
If medical advice is needed, have product container or label at hand.
Keep out of reach of children.

4. Authorised use(s)

4.1 Use description

Use 1 - Preventive wood preservative with insecticidal activity for industrial use

Product type	PT08 - Wood preservatives (Preservatives)
Where relevant, an exact description of the authorised use	Insecticide
Target organism(s) (including development stage)	Scientific name: Woodboring beetles Common name: Wood boring beetles Development stage: Larvae
Field(s) of use	Indoor Permitted is only the use of Embasol Houtwormdood for preventive treatment of wood destined for use under roof (use class 1) against attack by insects.
Application method(s)	Method: Open system: immersion Detailed description: - Method: Closed system: pressure process Detailed description: - Method: Closed system: vacuum impregnation Detailed description: -
Application rate(s) and frequencies	Application Rate: for superficial treatment 125 ml per m ² wood surface Dilution (%): 100 Number and timing of application: Only 1 application is required. Application Rate: for penetrative treatment: 1.56 – 3.18 kg of the product/m ³ Dilution (%): 100 Number and timing of application: Only 1 application is required. Application Rate: for penetrative treatment: 1.56 – 3.18 kg of the product/m ³ Dilution (%): 100 Number and timing of application: Only 1 application is required.
Category(ies) of users	Industrial
Pack sizes and packaging material	Jerrycan, Plastic, opaque: HDPE , 25.0 Liter

Drum, Plastic, opaque: HDPE , 200 Liter

IBC (intermediate bulk container), Plastic, opaque: HDPE , 1000 kg

4.1.1 Use-specific instructions for use

Immersion method:

Dip the wood to be treated in a dipping tank filled with Embasol Houtwormdood. Immerse till the required uptake is reached.
Retention rate: 125 ml/m².

Closed system: pressure process (vacuum-pressure impregnation):

The wood to be treated is placed in the vacuum-pressure cylinder. After the wood is placed and the cylinder is closed, a vacuum is made in the cylinder. After e.g. 15 minutes of vacuum the cylinder is filled with Embasol Houtwormdood. Thereafter, when the cylinder is full, Embasol Houtwormdood is pumped under pressure in the cylinder and in the wood under high pressure till the required uptake is reached. Then the cylinder is emptied and a post-vacuum is made in order to get the wood 'surface dry' out of the cylinder.
Retention rate: 1.56-3.18 kg/m³.

Closed system: vacuum impregnation (double vacuum impregnation):

The wood to be treated is placed into the vacuum cylinder. After the wood is placed and the cylinder is closed, a vacuum is made in the cylinder. After 15/20 minutes of pre-vacuum the cylinder is filled with Embasol Houtwormdood. When the cylinder is full, the wood stands in the liquid till the required uptake is reached. Subsequently the cylinder is emptied and a post-vacuum is created in order to get the wood 'surface dry' out of the cylinder.
Retention rate: 1.56-3.18 kg/m³.

For industrial use: Freshly industrial-treated timber shall be stored after treatment under shelter or on impermeable hard standing surface, 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.

4.1.2 Use-specific risk mitigation measures

Immersion method :

Wear protective chemical resistant gloves during product handling phase.

Closed system: pressure process (vacuum-pressure impregnation):

Wear protective chemical resistant gloves during product handling phase.

Closed system: vacuum impregnation (double vacuum impregnation):

Wear protective chemical resistant gloves and coverall during product handling phase.

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.

4.2 Use description

Use 2 - Preventive wood preservative with insecticidal activity for use by professionals and trained professionals

Product type

PT08 - Wood preservatives (Preservatives)

Where relevant, an exact description of the authorised use

Insecticide

Target organism(s) (including development stage)

Scientific name: Woodboring beetles
Common name: Wood boring beetles
Development stage: Larvae

Field(s) of use

Indoor

Permitted is only the use of Embasol Houtwormdood for preventive treatment of wood destined for use under roof (use class 1) against attack by insects.

Application method(s)

Method: Spraying
Detailed description:

-

Brushing
Detailed description:

-

Application rate(s) and frequencies

Application Rate: 125 ml per m² wood surface
Dilution (%): 100
Number and timing of application:
Only 1 application required.

Application Rate: 125 ml per m² wood surface.
Dilution (%): 100
Number and timing of application:
Only 1 application required.

Category(ies) of users

Trained professional

Professional

Pack sizes and packaging material

Can /Tin, Metal: , 5.0 liter

Jerry can, Plastic, opaque: HDPE , 5.0 Liter

Jerry can, Plastic, opaque: HDPE , 10.0 Liter

Jerry can, Plastic, opaque: HDPE , 25.0 Liter

Drum, Plastic, opaque: HDPE , 200 liter

IBC (intermediate bulk container), Plastic, opaque: HDPE , 1000 Liter

4.2.1 Use-specific instructions for use

Spraying:

Apply Embasol Houtwormdood with a (automatic) spraying apparatus under low pressure in coarse driplets, in a way that trickling down is avoided. Retention rate: 125 ml/m².

Brushing:

The wood surface to be treated is brushed or rolled with a brush or roller. Apply one or two coats of the undiluted product depending on the uptake per coat. Apply in a way that trickling down is avoided. Retention rate: 125 ml/m².

For professional use:

To protect water living organisms, run-off to soil or surface water needs to be prevented. Therefore treatment of wood with this product needs to take place indoors or under roof. Alternatively, during treatment the soil underneath and around the object to be treated needs to be covered with plastic.

Avoid release of the product or residues of the product to the environment. Discharge of leftover and residues containing the product (e.g. solvents used for cleaning of brushes) to the sewer or surface water is not permitted. Leftover and residues containing the product (e.g. solvents used for cleaning of brushes) need to be removed as chemical waste.

4.2.2 Use-specific risk mitigation measures

Remove or cover terrariums, aquariums and animal cages before application. Turn off aquarium air-filter while spraying.

Keep children and pets away from treated surfaces until dried.

Spraying:

Wear protective chemical resistant gloves and coverall during product handling phase. Dispose of protective gloves after use.

Brushing:

Wear protective chemical resistant gloves during product handling phase.

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 general directions for use.

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

See general 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 general directions for use.

4.3 Use description

Use 3 - Curative woodpreservative with insecticidal activity for use by professionals and trained professionals

Product type

PT08 - Wood preservatives (Preservatives)

Where relevant, an exact description of the authorised use

Insecticide

Target organism(s) (including development stage)

Scientific name: Woodboring beetles
Common name: Wood boring beetles
Development stage: Larvae

Field(s) of use

Indoor

Curative wood preservation for indoor application and outdoor application within the scope of an extensive curative treatment (e.g. timbered house, wooden roof frames, log house constructions).

Outdoor applications are not intended for wood that:

- is either continually exposed to the weather or;
- is protected from the weather but subject to frequent wetting and;

<p>Application method(s)</p>	<p>- is subject to leaching.</p> <hr/> <p>Method: Spraying Detailed description: -</p> <p>Brushing Detailed description: -</p> <p>Method: Open system: injection Detailed description: -</p>
<p>Application rate(s) and frequencies</p>	<p>Application Rate: 250-300 mL of the product/m² wood Dilution (%): 100 Number and timing of application: Only 1 application required.</p> <p>For curative treatment it is advisable to check periodically and at least one year after the treatment whether active attack is still present. If the borers are still active, retreat the wood, perhaps locally.</p> <p>Application Rate: 250-300 mL of the product/m² wood Dilution (%): 100 Number and timing of application: Only 1 application required.</p> <p>For curative treatment it is advisable to check periodically and at least one year after the treatment whether active attack is still present. If the borers are still active, retreat the wood, perhaps locally.</p> <p>Application Rate: Depending on the dimensions of beams, the severity of the attack and the used injectors/injection holes. For the borehole method you will have 26 holes per m². For a beam of 30 x 30 cm with injectors of 6 mm 6.36 ml will be used per borehole and with an injector of 10 mm 17.67 ml will be used per borehole. For a beam of 80 x 80 cm with an injector of 6 mm 16.96 ml will be used per borehole and with an injector of 10 mm 47.12 ml will be used per borehole. Dilution (%): 100 Number and timing of application: Curative treatment by injection should always be combined with a curative superficial treatment by brushing at an application rate of 250-300 mL/m² to ensure efficacy.</p> <p>Only 1 application required</p> <p>For curative treatment it is advisable to check periodically and at least one year after the treatment whether active attack is still present. If the borers are still active, retreat the wood, perhaps locally.</p>
<p>Category(ies) of users</p>	<p>Trained professional</p> <p>Professional</p>
<p>Pack sizes and packaging material</p>	<p>Can /Tin, Metal: , 5.0 liter</p>

Jerry can, Plastic, opaque: HDPE , 5.0 Liter

Jerry can, Plastic, opaque: HDPE , 10.0 Liter

Jerry can, Plastic, opaque: HDPE , 25.0 Liter

Drum, Plastic, opaque: HDPE , 200 liter

IBC (intermediate bulk container), Plastic, opaque: HDPE , 1000 Liter

4.3.1 Use-specific instructions for use

Outdoor applications are not intended for wood that:

- is either continually exposed to the weather or;
- is protected from the weather but subject to frequent wetting and;
- is subject to leaching.

Remove varnishes, paints or wax films completely. Clean all the timber present. For timber attacked by House longhorn beetles, it is desirable to first open the tunnels and brush out the bore-dust as much as possible. Remove the bore-dust and wood layers damaged by the insect for subsequent disposal by burning. Clean the remaining wood surface with a wire-brush.

Spray:

Apply Embasol Houtwormdood with a (automatic) spraying apparatus under low pressure in coarse driplets, in a way that trickling down is avoided.

Retention rate: 250-300 ml/m².

Brush:

The wood surface to be treated is brushed or rolled with a brush or roller. Apply one or two coats of the undiluted product depending on the uptake per coat. Apply in a way that trickling down is avoided. Retention rate: 250-300 ml/m².

Injection:

Inject the wood according to the classic borehole method or through the new patented injection system with low pressure.

Curative treatment by injection should always be combined with a curative superficial treatment by brushing at an application rate of 250-300 mL/m² to ensure efficacy.

Borehole method:

Timber

Drill holes in the timber with a diameter of 6-10 mm, depending on the diameter of the injection plug to be used, till a depth of 3/4 of the beam thickness. The holes must be drilled 20 cm apart from each other in the horizontal direction and 15 cm in the vertical direction in cross bond. Put wood-injection-plugs into the holes and inject with the help of a high pressure (5 bar) injector, Embasol Houtwormdood into the wood. Treat the rest of the timber with Embasol Houtwormdood by brushing.

Beam ends

Drill holes in the timber with a diameter of 6-10 mm, depending on the diameter of the injection plug to be used. In horizontal beams drill holes vertically, in vertical beams drill holes under a 45° angle till a depth of 3/4 of the beam thickness. The holes must be drilled 5 cm apart from each other perpendicular to the grain and 20 cm parallel to the grain in cross bond. Drill the holes staggered. Drill the first row of holes approx. 10 cm from the wall. 2 rows are sufficient unless the specifications say otherwise. Put wood-injection-plugs into the holes and inject with the help of a high pressure (5 bar) injector, Embasol Houtwormdood into the wood. Treat the rest of the timber with Embasol Houtwormdood by brushing.

With the new patented method smaller drillholes are drilled into the wood (max. 6 mm), or fly out openings of the beetles are being used. With this method only a few holes are made in the wood.

Thereafter the system is being connected to the holes by small hoses and through low pressure for a certain period of time the required amount of wood preservative is injected in the wood.

Retention rate: Depending on the dimensions of beams, the severity of the attack and the used injectors/injection holes. For the borehole method you will have 26 holes per m². For a beam of 30 x 30 cm with injectors of 6 mm 6.36 ml will be used per borehole and with an injector of 10 mm 17.67 ml will be used per borehole. For a beam of 80 x 80 cm with an injector of 6 mm 16.96 ml will be used per borehole and with an injector of 10 mm 47.12 ml will be used per borehole. With the new patented injection method the average uptake per linear meter for a beam of 30 cm (30 x 30 cm) is 0,3 liter Embasol Houtwormdood and for a beam of 80 cm 1.5 liter per linear meter.

For professional or non-professional use: To protect water living organisms, run-off to soil or surface water needs to be prevented. Therefore treatment of wood with this product needs to take place indoors or under roof. Alternatively, during treatment the soil underneath and around the object to be treated needs to be covered with plastic.

Avoid release of the product or residues of the product to the environment. Discharge of leftover and residues containing the product (e.g. solvents used for cleaning of brushes) to the sewer or surface water is not permitted. Leftover and residues containing the product (e.g. solvents used for cleaning of brushes) need to be removed as chemical waste.

4.3.2 Use-specific risk mitigation measures

Remove or cover terrariums, aquariums and animal cages before application. Turn off aquarium air-filter while spraying.

Keep children and pets away from treated surfaces until dried.

Spraying:

Wear protective chemical resistant gloves and coverall during product handling phase. Dispose of protective gloves after use.

Brushing:

Wear protective chemical resistant gloves during product handling phase.

Injection:

Inject the wood according the classic borehole method or through the new patented injection system with low pressure. Wear protective chemical resistant gloves.

Curative treatment by injection should always be combined with a curative superficial treatment by brushing at an application rate of 250-300 mL/m² to ensure efficacy. Superficial treatment by spraying is not allowed due to risk for human health from the combined exposure.

4.3.3 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.

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

See general directions for use.

4.3.5 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.

4.4 Use description

Use 4 - Preventive and curative wood preservative with insecticidal activity for non-professional use

Product type

PT08 - Wood preservatives (Preservatives)

Where relevant, an exact description of the authorised use

Insecticide

Target organism(s) (including development stage)

Scientific name: Woodboring beetles
Common name: Wood boring beetles
Development stage: Larvae

Field(s) of use

Indoor

Permitted is only the preventive use (use class 1) and curative use of Embasol Woodwormkiller to treat wood under roof attacked by insects

Curative wood preservation for indoor application and outdoor application within the scope of an extensive curative treatment (e.g. timbered house, wooden roof frames, log house constructions) with simultaneous preventive efficacy.

Preventive wood preservation for indoor application within the scope of curative treatment on surrounding timber.

Outdoor applications are not intended for wood that:

- is either continually exposed to the weather or;
- is protected from the weather but subject to frequent wetting and;
- is subject to leaching.

Application method(s)

Method: Open system: brush treatment
Detailed description:

-

Application rate(s) and frequencies

Application Rate: Preventive: 125 ml per m² wood surface; Curative 250-300 ml per m² wood surface

Dilution (%): 100

Number and timing of application:

One time application. For curative treatment it is advisable to check periodically and at least one year after the treatment whether active attack is still present. If the borers are still active, retreat the wood, perhaps locally.

Category(ies) of users	General public (non-professional)
Pack sizes and packaging material	<p>Can /Tin, Metal: , 0.75 liter</p> <p>Can /Tin, Metal: , 2.5 liter Can /Tin, Metal: , 5.0 liter</p> <p>Jerry can, Plastic, opaque: HDPE , 5.0 Liter</p>

4.4.1 Use-specific instructions for use

<p>Outdoor applications are not intended for wood that:</p> <ul style="list-style-type: none"> - is either continually exposed to the weather or; - is protected from the weather but subject to frequent wetting and; - is subject to leaching. <p><u>For preventive treatment:</u> Brush : Brush the wood surface to be treated with a brush. The required uptake is to be reached in more than one treatment in a way that trickling down is avoided.</p> <p>Retention rate 125 ml/m².</p> <p><u>For curative treatment:</u> Remove varnishes, paints or wax films completely. Clean all the timber present. For timber attacked by House longhorn beetles, it is desirable to first open the tunnels and brush out the bore-dust as much as possible. Remove the bore-dust and wood layers damaged by the insect for subsequent disposal by burning. Clean the remaining wood surface with a wire-brush. Brush: Brush the wood surface to be treated with a brush. The required uptake is to be reached in more than one treatment in a way that trickling down is avoided.</p> <p>Retention rate 250 - 300 ml/m².</p> <p><u>For non-professional use:</u> To protect water living organisms, run-off to soil or surface water needs to be prevented. Therefore treatment of wood with this product needs to take place indoors or under roof. Alternatively, during treatment the soil underneath and around the object to be treated needs to be covered with plastic.</p> <p>Avoid release of the product or residues of the product to the environment. Discharge of leftover and residues containing the product (e.g. solvents used for cleaning of brushes) to the sewer or surface water is not permitted. Leftover and residues containing the product (e.g. solvents used for cleaning of brushes) need to be removed as chemical waste.</p>
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4.4.2 Use-specific risk mitigation measures

<p>No animals or bystanders should be present during the application.</p> <p>Keep children and pets away from treated surfaces until dried.</p>

4.4.3 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.

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

See general directions for use.

4.4.5 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 a good penetration the wood moisture content must be lower than 18%. Before treatment all prefabrication, such as sawing, drilling and notching must be carried out. If such work takes place after preservative treatment, further treatment of these parts must be carried out with Embasol Houtwormdood.

5.2. Risk mitigation measures

Do not use on wood which may come in direct contact with food, feeding stuff and livestock animals. Only to be used in well ventilated areas. Do not inhale vapour/spray.

Avoid prolonged contact of pets, particularly cats, to treated surfaces.

Treatment and storage need to take place under roof and on a liquid-tight floor. Discharge of the agent to sewer is not allowed. Residues containing the agent are to be disposed of as chemical waste. Wood treated with Embasol Houtwormdood may cause harm to bats. Do not use the product in areas where bats reside.

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

General information

Change contaminated, saturated clothing. When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps.

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

In case of inhalation

Remove casualty to fresh air and keep warm and at rest. Provide fresh air.

In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. In case of skin reactions, consult a physician.

After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water.

In case of eye irritation

Consult an ophthalmologist.

After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water.

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

Dispose as dangerous waste according to the local regulations.
Storage needs to take place under roof and on a liquid-tight floor. Discharge of the agent to sewer is not allowed. Residues containing the agent are to be disposed of as chemical waste.

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

Store only in original, well closed containers, separate from food and feeding stuff. Store locked up.

Protect from frost. Store at room temperature. Shelf-life: 24 months for tinplate/metal packaging or 12 months for HDPE packaging.

6. Other information

Not defined