

Summary of product characteristics for a biocidal product

Product name: Laqvin Clear EM1401

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

Authorisation number: BPD-reg. nr. 694-5

R4BP 3 asset reference number: DK-0001843-0000

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Administrative information

1.1. Trade names of the product

Laqvin Clear EM 1401

1.2. Authorisation holder

Name and address of the authorisation holder

Name	Sherwin-Williams Sweden AB
Address	Box 2016 19502 Märsta Sweden
Authorisation number	BPD-reg. nr. 694-5
R4BP 3 asset reference number	DK-0001843-0000
Date of the authorisation	09/12/2011
Expiry date of the authorisation	30/04/2024

1.3. Manufacturer(s) of the biocidal products

Name of the manufacturer

Sherwin-Williams Sweden Coatings KB

Address of the manufacturer

P.O. Box 2016 SE-19502 Märsta Sweden

Location of manufacturing sites

P.O. Box 2016 SE-19502 Märsta Sweden

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

Active substance	39 - 3-iodo-2-propynylbutylcarbamate (IPBC)
Name of the manufacturer	Lanxess Deutschland GmbH
Address of the manufacturer	Chempark D-51369 Leverkusen Germany
Location of manufacturing sites	Chempark D-51369 Leverkusen Germany
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
Address of the manufacturer	- B-2340 Beerse Belgium
Location of manufacturing sites	- B-2340 Beerse Belgium

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 (%)
3-iodo-2-propynylbutylcarbamate (IPBC)		Active Substance	55406-53-6	259-627-5	0,4
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	0,3

2.2. Type of formulation

AL - Any other liquid

3. Hazard and precautionary statements

Hazard statements	Harmful to aquatic life with long lasting effects.
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Precautionary statements

Keep out of reach of children.

Dispose of contents to Local disposal authorities.

Avoid release to the environment.

4. Authorised use(s)

4.1 Use description

Use 1 - USE

Product type

PT08 - Wood preservatives (Preservatives)

Where relevant, an exact description of the authorised use

Handling and use
Exposure control: supply sufficient ventilation. Where this is possible, it should be obtained by use of local exhaust and good sufficient ventilation. If this is insufficient, keep the concentrations of particles and emissions from solvents below the threshold values, breathing masks should be worn according to current legislation. On basis of the content of organic solvent in the product: Vapours are heavier than air and can be spread along the floor. Vapours can form explosive mixtures with air. Avoid the formation of combustible or explosive concentrations of vapours in the air and avoid concentrations of vapours that exceed the threshold values set by The Danish Working Environment Service (Arbejdstilsynet). In addition, the product may only be used in areas without open fire or other sources of ignition. Electric installations should be protected according to the "Heavy Current Regulations" (Stærkstrømsreglementet). The packaging should be kept tightly closed. Keep away from heat, sparks and fire. Do not use spark forming tools. Avoid contact with skin or eyes. Avoid inhalation of dust, particles, spray or spray mists formed by the use of this product. Avoid inhalation of slip. Smoking, eating or drinking are not allowed in areas, where this product is handled, stored or processed. Never use pressure when emptying the container. The container is not a pressure tank. Always be stored in containers of the same material as that of the original. Observe regulations of the "Health and Safety at Work Act" (Arbejdsmiljøloven). When employees – whether spraying takes place or not – are to work in a spraying room, ventilation is not considered to be adequate to control particle shaped material and solvent vapours. Under such conditions a pneumatic mask should be worn, until the concentration of particle shaped material and solvent vapours has dropped to below the threshold values. Wear appropriate personal protective equipment: Respiratory organ: In case employees get exposed to concentrations that exceed the allowed threshold value, they should wear the appropriate and certified breathing mask. Particle filter, P2-P3. Skin and body: Personnel should wear anti-static work clothes made of natural fibres or of synthetic fibres that are resistant to high temperatures. Hands: Wear appropriate safety gloves during work. Recommendation: Silver Shield gloves. There is a recommendation of type or types of gloves to be worn during handling of the product is based on information from the following source:
Composition/information of components. Breakthrough time: Contact the glove supplier for information. Protective cream can protect exposed skin areas, but should not be applied after the skin has been exposed to the product. Eyes: Wear appropriate safety goggles to protect against splashes from liquids. Protection based on MAL-codes: According to the regulation about work with code numbered products the following regulations apply for use of personal protective equipment: General: By all work that may imply soiling wear gloves. Wear apron/overalls/protective suit should if soiling takes place to such an extent that usual work clothes does not protect effectively against skin contact to the product. If a full-face mask is not recommended, wear a face screen by splashing work. Recommended eye protection, if any, no longer applies in this case. By all spray work, that involves use of a return spray (backflash), wear a breathing mask and sleeve/apron/overalls/protection suit as recommended or instructed.

Mal code (1993): 0-5. Use: By pre- and after treatment in spray booths, where the operator is outside the spray zone and by similar work in new plants of the type combi-cabins, spray cabins and spray booths, where the operator is inside the spray zone. By spraying in new booths and cabins with spray gun without aerosol

	<p>formation. By operation stops, cleaning and repair of closed plants, spray boot or cabin, if there is a risk of contact with wet paint or organic solvents. By pre- or after treatment in cabin or booths of the type existing plants, if the operator is inside the spray zone. By pre- or after treatment outside closed plants, spray booths or spray cabins. – Wear protective clothes. By spraying in existing spray booths if the operator is outside the spray zone. – Wear an air supplied full-face mask and a protective suit. By spraying without aerosol formation in existing plants of the type combi-cabins, spray cabins or spray booths, where the operator is inside the spray zone. – Wear a gas filter mask and a protective suit. By all spraying with aerosol formation in cabins or spray booths, where the operator is inside the spray zone and by spraying outside closed plants, cabins or booths. – Wear an air supplied full-face mask, a protective suit and a hood. Drying: Elements for drying/drying ovens, which are temporarily placed in e.g. a shelf cart, should be equipped with mechanical exhaust, to prevent vapours from humid specimens to pass the inhalation zone of the workers. Polishing: By polishing of treated surfaces, wear dust filter mask. By machine grinding wear safety goggles. Always wear protective gloves. Storage: To be stored according to local regulations. Observe measures stated on the label. Must not be stored below the following temperature: 5°C (41°F). Store at a dry, cool and well ventilated place. To be kept away from heat (max 35°C) and direct sunlight. Due to content of organic solvent in the product: Keep away from ignition sources. To be kept away from: oxidation agents, strong bases, strong acids. No smoking. No admittance. Open containers should be closed carefully and stored in upright position to prevent leakage. Transport within the plant area: Always transport in closed, upright standing and safe containers. Person transporting the product should be familiar with measures against spillage and accidents.</p>
<p>Target organism(s) (including development stage)</p>	<p>Scientific name: <i>Aspergillus versicolor</i> Common name: Blue stain fungi Development stage: Spores and spore producing structures</p>
<p>Field(s) of use</p>	<p>Other</p> <p>Manner and area of use: The product is used as a product to protect wooden commodities (e.g. wooden windows and doors) against blue stain fungi Use Class 2 and 3 specified in EN 335-1: 2006 "Durability of wood and wood-based products – Definition of use classes – Part 1: General". The product is for industrial use, application by automated spraying.</p> <p>(u) Conditions of use: 2 applications of total 260 – 320 g/m² corresponding to 1.04 – 1.28 g/m² IPBC and 0.78 – 0.96 g/m² propiconazole. Application usually takes 1 – 15 minutes. Application takes place in closed systems.</p> <p>The product is a ready-to-use product. The product should be dried between 5 - 40°C and RH <80%.</p> <p>(v) Instructions for safe use of the product: 7 Dry for 2 – 24 h at 20°C. 30 – 60 minutes at 30 - 40°C. The elements are to be stored for at least 7 days at 20°C.</p>
<p>Application method(s)</p>	<p>Open system: brush treatment -</p> <p>Exposure control: supply sufficient ventilation. Where this is possible, it should be obtained by use of local exhaust and good sufficient ventilation. If this is insufficient, keep the concentrations of particles and emissions from solvents below the threshold values, breathing masks should be worn according to current legislation. On basis of the content of organic solvent in the product: Vapours are heavier than air and can be spread along the floor. Vapours can form explosive mixtures with air. Avoid the formation of combustible or explosive concentrations of vapours in the air and avoid concentrations of vapours that exceed the threshold values set by The Danish Working Environment Service (Arbejdstilsynet). In addition, the product may only be used in areas without open fire or other sources of ignition. Electric installations should be protected according to the "Heavy Current Regulations" (Stærkstrømsreglementet). The packaging should be kept tightly closed. Keep away from heat, sparks and fire. Do not use spark forming tools. Avoid contact with skin or eyes. Avoid inhalation of dust, particles, spray or spray mists formed by the use of this product. Avoid inhalation of slip. Smoking, eating or drinking are not allowed in areas, where this product is handled, stored or processed. Never use pressure when emptying the container. The container is not a pressure tank. Always be stored in containers of the same material as that of the original. Observe regulations of the "Health and Safety at Work Act" (Arbejdstilsynet). When employees – whether spraying takes place or not – are to work in a spraying room, ventilation is not considered to be adequate to control particle shaped material and solvent vapours. Under such conditions a pneumatic mask should</p>

	concentration of particle shaped material and solvent vapours hasdropped to below the threshold values.
Application rate(s) and frequencies	2 applications of total 260 – 320 g/m ² - 100 - 2 applications of total 260 – 320 g/m ²
Category(ies) of users	Professional Industrial
Pack sizes and packaging material	Can /Tin - Metal: - 750, ml, 1L, 2.5 L, 5 L, 20 L, 120 L, 200 L, 1000 L

4.1.1 Use-specific instructions for use

Mixing and loading Laqvin Clear EM1401 is delivered as ready-to use product for industrial automated processes. It is expected that the mixing/loading process is a fully automated procedure (pumping process) in a closed system. Therefore, it can be considered that this process is not associated with significant exposure.

Application

During automated process, the operator's exposure is negligible, as it is an automated process and the operator's position is away from the treating area of the wood. Post-application: Handling of treated articles After the automated process, post-application exposure to the product may occur during manual contact with handling of the treated (wet) wood and by handling equipment, and/or contaminated clothing. Usually, there should be no manual contact with treated wood until the product has completely dried. Maintenance/cleaning of the system Potential exposure may occur during maintenance, testing/repair of the automated system (hoses, valves, connecting lines, etc.). However, such tasks are expected to be rare and of short duration. Cleaning of the system is a potential source of exposure and varies between industries. This activity may never or very rarely occur. Unfortunately, there is no adequate model to estimate this type of exposure. The use of PPE is recommended during these tasks. Industrial exposure – automated spraying Automated spraying is an industrial and automated process. It means that during application phase, the operator's exposure is negligible, as it is an automated process and the operator's position is away from the treating area of the wood. After the automated process, during the "handling" phase, the operator might be exposed via skin and/or via inhalation by contact with the treated timber (water-wet or solvent damp wood), by handling equipment and/or contaminated clothing. Indeed, the "handling" phase entails a cycle of loading, waiting, unloading and removal of treated timber to storage. Dermal contamination can occur through direct contact with the surface of treated timber and through contact with ancillary equipment and contaminated process plant. Dermal exposure may also arise from the spread of contamination into areas such as control rooms and from secondary sources such as previously contaminated overalls and gloves. The duration default value of exposure for automated dipping is stated with 4 cycles of 60 minutes per day in the HEEG opinion "Defaults and appropriate models to assess human exposure for dipping processes (PT8)", 2009. This duration has also been considered as a reasonable value for the other industrial processes as the automated spraying treatment.

4.1.2 Use-specific risk mitigation measures

Keep container tightly closed. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this preparation. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Never use pressure to empty. Container is not a pressure vessel. Always keep in containers made from the same material as the original one. Comply with the health and safety at work laws. Exposure control: Supply sufficient ventilation. Where this is possible, it should be obtained by use of local exhaust and good sufficient ventilation. If this is insufficient, keep the concentrations of particles and emissions from solvents below the threshold values, breathing masks should be worn according to current legislation. On basis of the content of organic solvent in the product: Vapours are heavier than air and can be spread along the floor. Vapours can form explosive mixtures with air. Avoid the formation of combustible or explosive concentrations of vapours in the air and avoid concentrations of vapours that exceed the threshold values set by The Danish Working Environment Service (Arbejdstilsynet). In addition, the product may only be used in areas without open fire or other sources of ignition. Electric installations should be protected according to the "Heavy Current Regulations" (Stærkstrømsreglementet). The packaging should be kept tightly closed. Keep away from heat, sparks and fire. Do not use spark forming tools. Personal protection equipment: Respiratory system: In case employees get exposed to concentrations that exceed the allowed threshold value, they should wear the appropriate and certified breathing mask. Particle filter, P2-P3. Skin and

body: Personnel should wear antistatic clothing made of natural fibres or of high-temperature-resistant synthetic fibres. Hands: Wear appropriate safety gloves during work. Recommendation: Silver Shield gloves. The recommendation of type or types of gloves to be worn during handling of the product is based on information from the following source: Composition/information of components. Breakthrough time: Contact the glove supplier for information.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment. Eyes: Use safety eyewear designed to protect against splash of liquids. Protection based on MAL-codes: According to the regulation about work with code numbered products the following regulations apply for use of personal protective equipment: General: By all work that may imply soiling wear gloves. Wear apron/overalls/protective suit should soiling takes place to such an extent that usual work clothes does not protect effectively against skin contact to the product. If a full-face mask is not recommended, wear a face screen by splashing work. Recommended eye protection, if any, no longer applies in this case. By all spray work, that involves use of a return spray (backflash), wear a breathing mask and sleeve/apron/overalls/protective suit as recommended or instructed. Mal code (1993): 0-5 By use of putty knife, brush, roller etc. for pre- and after treatment in spray booths, where the operator is outside the spray zone and by similar work in new plants of the type combi-cabins, spray cabins and spray booths, where the operator is inside the spray zone. By spraying in new booths and cabins with spray gun without aerosol formation. By operation stops, cleaning and repair of closed plants, spray booth or cabin, if there is a risk of contact with wet paint or organic solvents. By use of putty knife, brush, roller etc. for pre- and after treatment in cabin or booths of the type existing plants, if the operator is inside the spray zone. By use of putty knife, brush, roller etc. for pre and after treatment outside closed plants, spray booths or spray cabins. – Wear protective clothes. By spraying in existing spray booths if the operator is outside the spray zone. Wear an air supplied full-face mask and a protective suit. By spraying without aerosol formation in existing* plants of the type combi-cabins, spray cabins or spray booths, where the operator is inside the spray zone. Wear a gas filter mask and a protective suit. By all spraying with aerosol formation in cabins or spray booths, where the operator is inside the spray zone and by spraying outside closed plants, cabins or booths. Wear an air supplied full-face mask, a protective suit and a hood. Drying: Elements for drying/drying ovens, which are temporarily placed in e.g. a shelf cart, should be equipped with mechanical exhaustion, to prevent vapours from humid specimens to pass the inhalation zone of the workers. Polishing: By polishing of treated surfaced, wear a dust filter mask. By machine grinding wear safety goggles. Always wear protective gloves

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

Particulars of likely direct or indirect adverse effects and first aid instructions General: Consult doctor in case of doubt or if the symptoms persist. Never give an unconscious person anything through the mouth. In case of unconsciousness place patient stably in side position and seek medical advice. Inhalation: Take patient into fresh air. Keep patient warm and calm. In case of no breathing, or if the breathing is irregular or if the breathing ceases, provide artificial respiration or oxygen from trained personnel. Skin contact: Take off contaminated clothes and shoes. Rinse the skin thoroughly with water and soap and use a suitable skin cleanser. Do not use solvents or thinners. Eye contact: Check for contact lens and remove them. Immediately rinse opened eye with running water for at least five minutes. After swallowing: Call for a doctor immediately, show this container and label. Keep the patient warm and calm. Do not provoke vomiting. Measures to be taken in case of leakage by accident Due to the content of organic compounds in the product: Remove if possible, all sources of ignition and valves in the area. Avoid inhalation of vapours or spray mists. Read protection measures stated in the section III B 8.1.1, too. Confine leakages and absorb with non-inflammable material e.g. sand, soil, vermiculite, diatomite and place it in a container and dispose of it according to current regulations, see section III B 8.5.

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

Instructions for safe disposal of the product and its packaging: Must not be poured into drains or waterways. To be disposed of according to the directions of the local authorities

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

Storage: To be stored according to local regulations. Observe measures stated on the label. Must not be stored below the following temperature: 5°C (41°F). Store at a dry, cool and well ventilated place. To be kept away from heat (max. 35°C) and direct sunlight. Due to the content of organic solvent in the product: Keep away from ignition sources. To be kept away from: oxidation agents, strong bases, strong acids

Conditions of storage and shelf-life of the product under normal conditions of storage: The product should be stored between 5-35°C. Shelf life 6 months. (z) Additional information: The product cannot be mixed with other products. The objects should be stored for at least 7 days at 20°C prior to exposure to the weather. The product should be applied and dried between 5°C-40°C and RH 80%

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

See authorised uses

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

See authorised uses

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

See authorised uses

6. Other information