

Summary of product characteristics for a biocidal product

Product name: NEUTRALAC® SL12

Product type(s): PT02 - Disinfectants and algaecides not intended for direct application to humans or animals (Disinfectants)

PT03 - Veterinary hygiene (Disinfectants)

Authorisation number: FR-2022-0052

R4BP 3 asset reference number: FR-0028614-0003

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Administrative information

1.1. Trade names of the product

Neutralac® SL12

1.2. Authorisation holder

Name and address of the authorisation holder

Name	Lhoist France Ouest
Address	15 rue Henri Dagallier 38000 Grenoble France
Authorisation number	FR-2022-0052 1-2

R4BP 3 asset reference number

FR-0028614-0003

Date of the authorisation

22/06/2022

Expiry date of the authorisation

21/06/2032

1.3. Manufacturer(s) of the biocidal products

Name of the manufacturer

Lhoist France Ouest

Address of the manufacturer

15 rue Henri Dagallier 38 100 Grenoble France

Location of manufacturing sites

Lieu-dit Les Gaillards 36 800 Saint Gaultier France

Lieu-dit Le Martinet - BP6 47 500 Sauveterre La Lémance France
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Lieu-dit Les Justices 24120 Terrasson Lavilledieu France
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BP 0215 Neau 53602 Evron France

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

Active substance	1255 - Calcium dihydroxide/calcium hydroxide/caustic lime/hydrated lime/slaked lime
Name of the manufacturer	Lhoist France Ouest
Address of the manufacturer	15 rue Henri Dagallier 38100 Grenoble France
Location of manufacturing sites	Lieu-dit Le Martinet - BP6 47500 Sauveterre La Lemance France
	Les justices 24120 Terrasson Lavilledieu France
	Les Gaillards 36800 Saint Gautier France
	BP 0215 Neau 53602 Evron France

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 (%)
Calcium dihydroxide/calcium hydroxide/caustic lime/hydrated lime/slaked lime		Active Substance	1305-62-0	215-137-3	12

2.2. Type of formulation

SD - Suspension concentrate for direct application

3. Hazard and precautionary statements

Hazard statements

Causes skin irritation.
Causes serious eye damage.

Precautionary statements

Wash thoroughly after handling.
Wear face protection.
IF ON SKIN: Wash with plenty of water.
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.
Specific treatment (see on this label).
If skin irritation occurs: Get medical .
Take off contaminated clothing. And wash it before reuse.

4. Authorised use(s)

4.1 Use description

Use 1 - Disinfection of sewage sludge

Product type

PT02 - Disinfectants and algaecides not intended for direct application to humans or animals (Disinfectants)

Where relevant, an exact description of the authorised use

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Target organism(s) (including development stage)

Scientific name: other
Common name: Bacteria
Development stage:

Scientific name: helminth eggs
Common name: Endoparasites
Development stage: Eggs

Field(s) of use	Indoor Outdoor Indoor, outdoor
Application method(s)	Method: Direct and automated application Detailed description: Direct and automated application by mix with sewage sludge The product is dosed into the sewage sludge and mixed by means of a blender. The treated sludge may have three destinations - agricultural use, incineration or landfill.
Application rate(s) and frequencies	Application Rate: Ready to use Dilution (%): - Number and timing of application: Ready to use The application rate must be sufficient to maintain a pH >12 during the contact time. Contact time: 24H to several weeks for helminth eggs.
Category(ies) of users	Professional
Pack sizes and packaging material	IBC made of HDPE (1 m3) equipped with an electrical stirrer or with a recirculating pump. Container made of stainless steel up to 25 t equipped with an electrical stirrer (IDRA containers).

4.1.1 Use-specific instructions for use

- The application rate must be sufficient to maintain a pH >12 during the contact time.
- Apply at 0.003 kg -30 kg of active substance (calcium hydroxide) per ton/m3 sludge.
- The application dose should be set to achieve a rate of 20 - 50% of the dry solids weight of sludge.
- The ratios may vary between applications and treatment plant designs. The user must ensure that the treatment is effective through preliminary laboratory tests that guarantee efficacy according to the legislation applicable to each case.

4.1.2 Use-specific risk mitigation measures

- The automatic loading of the product in the blender must be carried out directly from the packaging.
- During the automatic loading of the product, wear :
protective chemical resistant gloves (glove material to be specified by the authorisation holder within the product information),
protective coverall (at least category III type 6),
face shield.
- The wear of air fed or canister RPE specific for ammonia gas is recommended in absence of collective management measures to estimate and prevent an exposure greater than the EUOEL of 14 mg/m3 for this gas.
- During cleaning of equipment, wear:
a respiratory mask at least APF 40 (respiratory mask type to be specified by the autorisation holder within the product information),
protective chemical resistant gloves (glove material to be specified by the authorisation holder within the product information),
protective coverall (at least category III type 6),
goggles.
- Wear protective gloves and protection coverall during the manipulation of treated sewage sludge.

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

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

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

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4.2 Use description

Use 2 - Disinfection of manure

Product type

PT03 - Veterinary hygiene (Disinfectants)

Where relevant, an exact description of the authorised use

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Scientific name: other

Target organism(s) (including development stage)

Common name: Bacteria
Development stage:

Scientific name: virus
Common name: Viruses
Development stage:

Scientific name: helminth eggs
Common name: Endoparasites
Development stage: Eggs

Field(s) of use

Indoor

Outdoor

Application to manure/litter inside or outside animal houses

Application method(s)

Method: Direct and automated application
Detailed description:
Direct and automated application by mix with manure
The product is dosed into the manure and mixed by means of a blender. The treated manure is used for agricultural use.

Application rate(s) and frequencies

Application Rate: Ready to use
Dilution (%): -
Number and timing of application:
Ready to use of product

The application rate must be sufficient to maintain a pH >12 during the contact time.

Contact time: 72 hours to 90 days for helminth eggs

Category(ies) of users

Professional

Pack sizes and packaging material

IBC made of HDPE (1 m3) equipped with an electrical stirrer or with a recirculating pump.

Container made of stainless steel up to 25 t equipped with an electrical stirrer (IDRA containers).

4.2.1 Use-specific instructions for use

- Application to manure/litter outside animal houses:
 1. Remove the manure or litter from the animal house.
 2. Do not apply more than 100 kg lime /m³ of litter or manure.
 3. Stockpile the lime treated manure.
 4. After the necessary contact time, dispose of the lime treated manure according to local legislation.
- Application of lime to litter or manure inside animal houses:
 1. Do not apply more than 30 kg lime /m³ of litter or manure inside the animal house.
 2. Remove the lime/manure or lime/litter mixture from the animal house.
 3. Homogenise the lime/manure or litter mixture.
 4. Stockpile the lime treated manure.
 5. After the necessary contact time, dispose the lime treated manure according to the local legislation.

4.2.2 Use-specific risk mitigation measures

- The automatic loading of the product in the blender must be carried out directly from the packaging.
- During the automatic loading of the product, wear :
protective chemical resistant gloves (glove material to be specified by the authorisation holder within the product information),
protective coverall (at least category III type 6),
face shield.
- The wear of air fed or canister RPE specific for ammonia gas is recommended in absence of collective management measures to estimate and prevent an exposure greater than the EUOEL of 14 mg/m³ for this gas.
- During cleaning of equipment, wear:
a respiratory mask at least APF 40 (respiratory mask type to be specified by the authorisation holder within the product information),
protective chemical resistant gloves (glove material to be specified by the authorisation holder within the product information),
protective coverall (at least category III type 6),
goggles.
- Wear protective gloves and protection coverall during the manipulation of treated sewage sludge.
- Do not apply the product if releases from animal housings or manure/slurry storage areas can be directed to a sewage treatment plant.

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

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

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

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4.3 Use description

Use 3 - Disinfection of indoor floor surfaces of animal accomodations and transportation

Product type	PT03 - Veterinary hygiene (Disinfectants)
Where relevant, an exact description of the authorised use	-
Target organism(s) (including development stage)	Scientific name: Bacteria . Common name: Bacteria Development stage: Scientific name: VIRUSES Common name: Viruses Development stage: Scientific name: Fungi Yeast Common name: Fungi/yeasts Development stage:
Field(s) of use	Indoor Indoor
Application method(s)	Method: Direct application manually Detailed description: Direct application manually (spraying downwards at low pressure) or with a semi-automated spreader The product is spread directly onto the floors of animal accomodations (poultry, cattle, sheep)
Application rate(s) and frequencies	Application Rate: Ready to use - 1 kg substance active/m ² Dilution (%): - Number and timing of application: Ready to use 1 kg active substance /m ² Contact time: 48 H
Category(ies) of users	Professional

Pack sizes and packaging material

IBC made of HDPE (1 m3) equipped with an electrical stirrer or with a recirculating pump.

Container made of stainless steel up to 25 t equipped with an electrical stirrer (IDRA containers).

4.3.1 Use-specific instructions for use

- The product is spread onto the floors of animal accommodations using manual application (spraying downwards at low pressure) semi-automated spreader.
- A. On concrete floors:
 1. Wash the installation with running water.
 2. Sprinkle approx.1 kg of active substance per m2 on the damp ground.
 3. Leave to act for at least 48 h.
- B. On beaten-earth floors:
 1. Brush and wet the floor.
 2. Sprinkle approx.1 kg of active substance per m2 on the damp ground.
 3. Leave to act for at least 48 h.

4.3.2 Use-specific risk mitigation measures

- Do not apply the product if releases from animal housings, manure/slurry storage areas, or animal transportation disinfection areas can be directed to a sewage treatment plant.
- Forbid children's access to treated floors.

Manual application (low-pressure, downwards):

- The semi-automatic loading of the product in the sprayer must be carried out directly from the packaging. During loading, the IBC must be fitted with a drain spout or a dispensing gun.
- The application must be performed downwards with a low-pressure sprayer.
- During semi-automatic loading, application and cleaning of spray equipment, wear :
protective chemical resistant gloves (glove material to be specified by the authorisation holder within the product information),
protective coverall (at least category III type 4),
face shield.

Semi-automatic process:

- The semi-automatic loading of the product in the spraying systems must be carried out directly from the packaging. During loading, the IBC must be fitted with a drain spout or a dispensing gun.
- During the semi-automatic loading of the product, wear :
protective chemical resistant gloves (glove material to be specified by the authorisation holder within the product information),
protective coverall (at least category III type 4),
face shield.
- During application, wear:
a respiratory mask at least APF 40 (respiratory mask type to be specified by the autorisation holder within the product information),
protective chemical resistant gloves (glove material to be specified by the authorisation holder within the product information),
protective coverall (at least category III type 4),
goggles.

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

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

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

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4.4 Use description

Use 4 - Disinfection of animal bedding materials

Product type

PT03 - Veterinary hygiene (Disinfectants)

Where relevant, an exact description of the authorised use

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Target organism(s) (including development stage)

Scientific name: Bacteria .
Common name: Bacteria
Development stage:

Scientific name: VIRUSES
Common name: Viruses
Development stage:

Field(s) of use

Indoor

Indoor

Application method(s)

Method: Direct application manually
Detailed description:

Direct application manually (spraying downwards at low pressure) or with a semi-automated spreader
The product is spread directly onto animal bedding materials (straw, sawdust, woodchip)

Application rate(s) and frequencies

Application Rate: Ready to use
Dilution (%): -
Number and timing of application:
Ready-to-use

The application rate must be sufficient to maintain a pH >12 during the contact time.

Contact time: 72 hours

Category(ies) of users

Professional

Pack sizes and packaging material

IBC made of HDPE (1 m3) equipped with an electrical stirrer or with a recirculating pump.

Container made of stainless steel up to 25 t equipped with an electrical stirrer (IDRA containers).

4.4.1 Use-specific instructions for use

- Cattle: Spread onto mulched or soiled bedding, do not apply lime alone to animal stalls. Use 1 to 1.5 kg of active substance per livestock unit per week in straw area. 200 to 300 g of active substance per stall once or twice a week.
- Sheep/goats: 110 to 200 g of active substance/m² per head/week.
- Poultry: 100 - 200 g of active substance/m² 1-2 times per week.

4.4.2 Use-specific risk mitigation measures

- The wear of air fed or canister RPE specific for ammonia gas is recommended in absence of collective management measures to estimate and prevent an exposure greater than the EUOEL of 14 mg/m³ for this gas.
- Do not apply the product if releases from animal housings, manure/slurry storage areas, or animal transportation disinfection areas can be directed to a sewage treatment plant.
- Forbid children's access to treated floors.

Manual application (low-pressure, downwards):

- The semi-automatic loading of the product in the sprayer must be carried out directly from the packaging. During loading, the IBC must be fitted with a drain spout or a dispensing gun.
- The application must be performed downwards with a low-pressure sprayer
- During semi-automatic loading, application and cleaning of spray equipment, wear :
protective chemical resistant gloves (glove material to be specified by the authorisation holder within the product information),
protective coverall (at least category III type 4),
face shield.

Semi-automatic process:

- The semi-automatic loading of the product in the spraying systems must be carried out directly from the packaging. During loading, the IBC must be fitted with a drain spout or a dispensing gun.
- During the semi-automatic loading of the product, wear :
protective chemical resistant gloves (glove material to be specified by the authorisation holder within the product information),
protective coverall (at least category III type 4),
face shield.
- During application, wear:
a respiratory mask at least APF 40 (respiratory mask type to be specified by the authorisation holder within the product information),
protective chemical resistant gloves (glove material to be specified by the authorisation holder within the product information),
protective coverall (at least category III type 4),
goggles.

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

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

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

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4.5 Use description

Use 5 - Disinfection of animal accommodations; limewashing of walls

Product type	PT03 - Veterinary hygiene (Disinfectants)
Where relevant, an exact description of the authorised use	-
Target organism(s) (including development stage)	Scientific name: Bacteria . Common name: Bacteria Development stage: Scientific name: VIRUSES Common name: Viruses Development stage: Scientific name: Fungi Yeast Common name: Fungi/yeasts Development stage:
Field(s) of use	Indoor Indoor
Application method(s)	Method: Direct application with a brush Detailed description: Direct application with a brush The product is applied by brushing onto the walls of accomodations (poultry, cattle, sheep)

Application rate(s) and frequencies

Application Rate: Ready to use product - 800 g of AS/m²
Dilution (%): -
Number and timing of application:
Ready to use product

800 g AS/m²

Contact time: 48 hours

Category(ies) of users

Professional

Pack sizes and packaging material

IBC made of HDPE (1 m³) equipped with an electrical stirrer or with a recirculating pump.

Container made of stainless steel up to 25 t equipped with an electrical stirrer (IDRA containers).

4.5.1 Use-specific instructions for use

- Clean the surface with running water before the application of the product.

4.5.2 Use-specific risk mitigation measures

- The semi-automatic loading of the product in buckets must be carried out directly from the packaging. During loading, the IBC must be fitted with a drain spout or a dispensing gun.
- During the semi-automatic loading of the product, wear :
protective chemical resistant gloves (glove material to be specified by the authorisation holder within the product information),
protective overall (at least category III type 6),
face shield.
- During application, wear:
a respiratory mask at least APF 4 (respiratory mask type to be specified by the autorisation holder within the product information),
chemical resistant gloves (glove material to be specified by the authorisation holder within the product information),
protective overall (at least category III type 6),
goggles.
- Do not touch the walls the day of treatment.
- Do not touch the treated wall until complete drying of treated surfaces.
- Forbid children's access to fresh and dried treated surfaces.
- Do not apply the product if releases from animal housings or manure/slurry storage areas can be directed to a sewage treatment plant.

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

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

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

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4.6 Use description

Use 6 - Disinfection of floors of outdoor animal enclosures

Product type	PT03 - Veterinary hygiene (Disinfectants)
Where relevant, an exact description of the authorised use	-
Target organism(s) (including development stage)	Scientific name: Bacteria . Common name: Bacteria Development stage: Scientific name: VIRUSES Common name: Viruses Development stage: Scientific name: Fungi Yeast Common name: Fungi/yeasts Development stage:
Field(s) of use	Outdoor Outdoor
Application method(s)	Method: Direct application manually Detailed description:

	<p>Direct application manually (spraying downwards at low pressure) or with a semi-automated spreader The product is spread directly onto the surface of animal enclosures (poultry)</p>
<p>Application rate(s) and frequencies</p>	<p>Application Rate: Ready to use - 800 g of AS / m² Dilution (%): - Number and timing of application: Ready to use</p> <p>800 g active substance/m²</p> <p>Contact time 48H</p> <p>2 applications/year at a maximum</p>
<p>Category(ies) of users</p>	<p>Professional</p>
<p>Pack sizes and packaging material</p>	<p>IBC made of HDPE (1 m³) equipped with an electrical stirrer or with a recirculating pump.</p> <p>Container made of stainless steel up to 25 t equipped with an electrical stirrer (IDRA containers).</p>

4.6.1 Use-specific instructions for use

- Brush and wet the floor before the application of the product.
- At the beginning of a production cycle it is recommended to spread the product onto the ground and apply water to the soil.
- Leave to act for at least 48 hours before bringing in poultry.

4.6.2 Use-specific risk mitigation measures

- Do not exceed two applications per year.
- Forbid children's access to treated floors.

Manual application (low-pressure, downwards):

- The semi-automatic loading of the product in the sprayer must be carried out directly from the packaging. During loading, the IBC must be fitted with a drain spout or a dispensing gun.
- The application must be performed downwards with a low-pressure sprayer

- During semi-automatic loading, application and cleaning of spray equipment, wear :
protective chemical resistant gloves (glove material to be specified by the authorisation holder within the product information),
protective coverall (at least category III type 4),
face shield.

Semi-automatic process:

- The semi-automatic loading of the product in the spraying systems must be carried out directly from the packaging. During loading, the IBC must be fitted with a drain spout or a dispensing gun.
- During the semi-automatic loading of the product, wear :
protective chemical resistant gloves (glove material to be specified by the authorisation holder within the product information),
protective coverall (at least category III type 4),
face shield.
- During application, wear:
a respiratory mask at least APF 40 (respiratory mask type to be specified by the autorisation holder within the product information),
protective chemical resistant gloves (glove material to be specified by the authorisation holder within the product information),
protective coverall (at least category III type 4),
goggles.

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

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

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

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5. General directions for use

5.1. Instructions for use

- Respect the conditions of use of the product (concentration, contact time, temperature, pH, etc.).
- Always read the label or leaflet before use and respect all the instructions provided.
- Refer to hygiene plan in place in order to ensure that necessary efficacy level is achieved.
- The users should inform if the treatment is ineffective and report straightforward to the registration holder.
- Use only in the absence of animals.
- Rinsed several times commercial packaging with water after use.
- Used commercial packaging for Milk of Lime or related Lime product only.
- The product should be agitated before application and should be kept under continuous agitation during the application.

5.2. Risk mitigation measures

- Minimisation of splash and spills.
- During rinsing of commercial packaging, wear:
 - protective chemical resistant gloves (glove material to be specified by the authorisation holder within the product information),
 - protective coverall (at least category III type 6),
 - face shield.

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: Rinse mouth. Give something to drink, if exposed person is able to swallow. Do NOT induce vomiting. Call a POISON CENTRE or a doctor.
- IF ON SKIN: Take off all contaminated clothing and wash it before reuse. Wash skin with water. If skin irritation occurs: 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.

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

- Do not discharge unused product on the ground, into water courses, into pipes (sink, toilets...) nor down the drains.
- Dispose of unused product, its packaging (...) and all other waste, in accordance with local regulations.

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

- Shelf life: 1 month.
- Protect from frost.
- Do not store at a temperature higher than 30°C.
- Keep away from acids.

6. Other information

In France only:

Lime has a virucidal activity (see Anses opinion 2020-SA-0043 of the 27th of March 2020).

In case of spreading of the treated sludge, the hygienised sludge must meet the microbiological quality indicators defined in the national regulations. In France, the criteria are defined in the "arrêté du 8 janvier 1998".