

According to Regulation (EC) N° 1907/2006

Creation Update 28/10/2019 22/09/2022

#### SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

# 1.1. Product identifier

**Product type:** Mixture

Commercial name:AGROCEAN LAMINALIN - GEOCEANE BZnCommercial code(s):VAGLAMINALIN - LAMINALIN10F - GEOBZN10F

UFI n°: Y0D0-00XF-V00D-SN6F

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture:

Fertilizer

Uses advised against: all other use

#### 1.3. Details of the supplier of the safety data sheet

**AGRIMER** 

Prad Menan - CS 2003 29880 PLOUGUERNEAU - France

Tel: +33 2 98 04 54 11 contact@agrimer.com

### 1.4. Emergency telephone number

### France:

ORFILA number: +33 1 45 42 59 59, gives access to the poison control centers phone numbers.

Other EU countries:

The emergency telephone numbers are available on the European Chemical Agency (ECHA) website in Help section and National helpdesk tab:

http://echa.europa.eu/web/guest/support/helpdesks/national-helpdesks/list-of-national-helpdesks



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#### **SECTION 2. HAZARDS IDENTIFICATION**

#### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) N°1272/2008 (CLP):

Serious eye damage/eye irritation (Eye Dam. 1)

Hazardous to the aquatic environment (Aquatic Acute 1)

Hazardous to the aquatic environment (Aquatic Chronic 1)

#### 2.2. Label elements

# Labelling according to Regulation (EC) N°1272/2008 (CLP): Hazard pictograms:





#### Sianal word:

#### Danger

#### **Hazard statements:**

H318: Causes serious eye damage

H410: Very toxic to aquatic life with long lasting effects

#### **Precautionary statements:**

P102: Keep out of reach of children.

P270: Do not eat, drink or smoke when using this product.

P273: Avoid release to the environment.

P280: Wear protective gloves/ protective clothing/eye protection/face protection

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER/doctor/ophthalmologist.

P391: Collect spillage.

P401: Storage: Keep away from food, drink and animal feedingstuffs.

P501: Dispose of contents/ container according to regulation.

### Substance(s) inducing classification:

Zinc sulphate heptahydrate (CAS 7446-20-0)

#### 2.3. Other hazards

The product does not contain SVHC >= 0.1% published by ECHA according to REACH regulation, article 57: http://echa.europa.eu/fr/candidate-list-table

The product does not contain substance  $\geq$  0,1% meeting the criteria for PBT or vPvB according to REACH regulation (EC) n° 1907/2006, annex XIII.

The product does not contain substance  $\geq$ = 0,1% included in the list established in accordance with REACH regulation (EC) n° 1907/2006, Article 59(1) for having endocrine disrupting properties.



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The product does not contain substance >= 0,1% identified as having endocrine disrupting properties in accordance with the criteria set out in Delegated Regulation (EU) 2017/2100 setting out scientific criteria for the determination of endocrine-disrupting properties pursuant or Regulation (EU) 2018/605 amending Annex II to Regulation (EC) No 1107/2009 concerning the placing of plant protection products on the market and repealing by setting out scientific criteria for the determination of endocrine disrupting properties.

No particular hazards known, if instructions / indications for storage and handling are followed.

# **SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS**

#### 3.2. Mixtures

### Classified substances:

Substance / CAS / n° EC / Index / REACH	%	Substance classification
Zinc sulphate heptahydrate	25-50%	Acute Tox. 4 oral ; H302
CAS: 7446-20-0		Eye Dam. 1 ; H318
EC n°: 231-793-3		Aquatic Acute 1 ; H400
REACH: 01-2119474684-27		Aquatic Chronic 1 ; H410
INDEX: 030-006-00-9		

<sup>[1]:</sup> substance with workplace exposure limit

### **SECTION 4. FIRST AID MEASURES**

#### 4.1. Description of first aid measures

Remove contaminated clothing immediately. First aiders have to pay attention to self-protection. As a general rule, in case of doubt or if symptoms persist, always call a doctor.

Following inhalation:

Remove casualty to fresh air and keep at rest. Seek medical attention in the event of respiratory problems.

Following skin contact:

Wash with water and soap. Seek medical attention in the event of persistent irritation.

Following eye contact:

Rinse immediately with water for at least 15 minutes with the eyelids open. Remove contact lenses. Consult an eye specialist or seek medical attention immediately.

Following ingestion:

Do not drink. Do not induce vomiting. Rinse mouth with water if the person is conscious and keep at rest. Call a doctor or antipoison center.

#### 4.2. Most important symptoms and effects, both acute and delayed

No data available. Not considered as hazardous in normal conditions of use.

# 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically, no data available on specific treatment.



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#### **SECTION 5. FIREFIGHTING MEASURES**

#### 5.1. Extinguishing media

Suitable extinguishing media:
All extinguishing media can be used
Unsuitable extinguishing media:
None

#### 5.2. Special hazards arising from the substance or mixture

Combustion releases sulfur oxides, carbon monoxide, carbon dioxide and smoke. Do not inhale smoke.

### 5.3. Advice for fire-fighters

Wear self-contained breathing apparatus and protective clothing.

Water used to extinguish fire should not enter drainage systems, soil or stretches of water. Ensure there are sufficient retaining facilities for water used to extinguish fire. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

# **SECTION 6. ACCIDENTAL RELEASE MEASURES**

#### 6.1. Personnal precautions, protective equipment and emergency procedures

Wear personal protective equipment to avoid any contact with skin, eyes or personnal clothes. See section 8.

#### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

# 6.3. Methods and material for containment and cleaning up

Contain spills with non combustible absorbent materials such as sand, diatomaceous earth in suitable and tightly closed containers for disposal.

#### 6.4. Reference to other sections

See section 8 for information on personal protective equipment and section 13 for disposal information.



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#### **SECTION 7. HANDLING AND STORAGE**

#### 7.1. Precautions for safe handling

Do not eat, drink or smoke in work area. Wash hands after each use. Strictly follow the directions of use.

#### 7.2. Conditions for safe storage, including any incompatibilities

Keep in the original container tightly closed. Keep at temperature between 5°C and 35°C, away from light and moisture.

#### 7.3. Specific end use(s)

Uses: see point 1.2. and observe instructions for use

#### **SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

#### 8.1. Control parameters

Data on main components:

**Workplace Exposure Limits (WEL):** 

Does not contain substances with occupational exposure limits values

# **Derived No Effect Level (DNEL):**

Zinc sulphate heptahydrate (CAS 7446-20-0)

. Worker - long term exposure

Systemic effects (cutaneous contact): 8,3 mg/kg bw/day

Systemic effects (inhalation): 1 mg/m3

. General population - long term exposure

Systemic effects (cutaneous contact): 8,3 mg/kg bw/day Systemic effects (inhalation): 1,25 mg/m3

Systemic effects (oral): 0,83 mg/kg bw/day

Boron ethanolamine (CAS 26038-87-9)

. Worker - long term exposure

Systemic effects (cutaneous contact): 3,3 mg/kg bw/day Systemic effects (inhalation): 5,9 mg/m3

. General population - long term exposure

Systemic effects (cutaneous contact): 1,7 mg/kg bw/day Systemic effects (inhalation): 1,4 mg/m3

Systemic effects (oral): 1,7 mg/kg bw/day



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# Predicted No Effect Concentration (PNEC): Zinc sulphate heptahydrate (CAS 7446-20-0)

Fresh water: 20,6  $\mu$ g/L Marine water: 6,1  $\mu$ g/L Fresh water sediment: 117,8  $\mu$ g/kg Marine water sediment: 56,5  $\mu$ g/kg Water intermittent release: /

Seawage treatment plant:  $100 \mu g/L$  Soil: 35,6 mg/kg

Boron ethanolamine (CAS 26038-87-9)

Fresh water:  $26 \ \mu g/L$  Marine water:  $2,6 \ \mu g/L$  Fresh water sediment:  $54 \ \mu g/kg$  Marine water sediment:  $5,4 \ \mu g/kg$  Water intermittent release:  $0,26 \ mg/L$  Seawage treatment plant:  $10 \ mg/L$  Soil:  $14 \ \mu g/kg$ 

# 8.2. Exposure controls

#### Appropriate engineering controls

No data

# Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye glasses with side protection.

Skin and body protection

Wear clean and properly maintained working clothes.

**Hand protection** 

Wear suitable protective gloves in case of prolonged or repeated contact with skin.

Respiratory protection

No individual respiratory protective equipment is necessary.

Hygienic measures

Wash hands after handling product. Do not eat, drink or smoke in the working area.

# **Environmental exposure controls**

Avoid any direct spillage in drainage systems, surface water and drains. Do not allow to enter into soil/subsoil



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#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

# 9.1. Information on basic physical and chemical properties

Physical state Liquide Colour Green brown Odour Characteristic Melting point/freezing point Not determined Initial boiling point and boiling range Not determined **Flammability** Not flammable Lower and upper explosion limit Not determined Flash point Not determined **Auto-ignition temperature** Not determined **Decomposition temperature** Not determined 4,5 - 6,0

Kinematic viscosity

Solubility

Partition coefficient n-octanol/water (log value)

Vapour pressure

Density and/or relative density

Relative vapour density

Particle characteristics

Not determined

1,350 - 1,370

Not determined

Not applicable

#### 9.2. Other information

No data

# **SECTION 10. STABILITY AND REACTIVITY**

# 10.1. Reactivity

No data available

### 10.2. Chemical stability

Product is stable under normal conditions of use and storage

# 10.3. Possibility of hazardous reactions

Materials to avoid: Strong oxidizing agents

#### 10.4. Conditions to avoid

Heat, moisture and light



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#### 10.5. Incompatible materials

Bases

#### 10.6. Hazardous decomposition products

No data available

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

No data available on mixture. Data on main components:

Zinc sulphate heptahydrate (CAS 7446-20-0)

**ACUTE TOXICITY** 

Oral: LD50 = 1570 mg/kg bw (OECD 401)
Dermal: LD50 > 2000 mg/kg bw (OECD 402)

Inhalation:

IRRITATION / CORROSION

Skin: not irritating

Eye: highly irritating (OECD 405)

**SENSITISATION** 

Skin: not sensitising (LLNA)

Respiratory: not sensitising

CMR

Carcinogenicity: not classified

Mutagenicity: no adverse effect observed (OECD 471; Micronucleus test)

Toxicity to reproduction: no adverse effect observed (OECD 416)
Teratogenicity: no adverse effect observed (hamster)

TARGET ORGANS TOXICITY

Single exposure: not classified
Repeated exposure: not classified
ASPIRATION HAZARD not classified

REPEATED DOSE TOXICITY

Oral: NOAEL = 13,3 mg Zn/kg bw/day (OECD 408)

Dermal: /
Inhalation: /



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### Boron ethanolamine (CAS 26038-87-9)

**ACUTE TOXICITY** 

Oral: LD50 > 2000 mg/kg bw (OECD 423) Dermal: LD50 > 2000 mg/kg bw (OECD 402)

Inhalation: /

IRRITATION / CORROSION

Skin: not irritating (rabbit)
Eye: not irritating (BCOP)

**SENSITISATION** 

Skin: not sensitising (read-across)

Respiratory: /

**CMR** 

Carcinogenicity:

Mutagenicity: no adverse effect observed (OECD 471)

Toxicity to reproduction: //
Teratogenicity: //

TARGET ORGANS TOXICITY

Single exposure: not classified
Repeated exposure: not classified
ASPIRATION HAZARD not classified

REPEATED DOSE TOXICITY

Oral: NOAEL = 1000 mg/kg bw/day

Dermal: /
Inhalation: /

#### 11.2. Information on other hazards

#### **Endocrine disrupting properties**

No data available

### **Other information**

No data available

# **SECTION 12. ECOLOGICAL INFORMATION**

#### 12.1 Toxicity

No data available on mixture. Data on main components:

Zinc sulphate heptahydrate (CAS 7446-20-0)

FISH

Short-term toxicity: LC50 = 0.3 mg/L (96 h; Pimephales promelas)

Long-term toxicity:

**AQUATIC INVERTEBRATES** 

Short-term toxicity: EC50 = 0,1 mg/L (48h; Daphnia magna)

Long-term toxicity:

AQUATIC ALGAE AND CYANOBACTERIA:

*MICROORGANISMS:* EC10 = 0,1 mg/L



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Boron ethanolamine (CAS 26038-87-9)

**FISH** 

Short-term toxicity: LC50 > 100 mg/L (OECD 203)

Long-term toxicity:

**AQUATIC INVERTEBRATES** 

Short-term toxicity: EC50 = 423 mg/L (OECD 202)

Long-term toxicity:

AQUATIC ALGAE AND CYANOBACTERIA: EC50 = 26 mg/L (OECD 201)

MICROORGANISMS: EC50 > 1000 mg/L (OECD 209)

#### 12.2 Persistance and degradability

Mixture composed of more than 90% of water and inorganic matters. Biodegradability tests are not applicable to inorganic substances.

#### 12.3 Bioaccumulative potential

No data available

#### 12.4 Mobility in soil

No data available

# 12.5 Results of PBT and vPvB assessment

The product does not contain substance >= 0,1% meeting the criteria for PBT or vPvB according to REACH regulation (EC) n° 1907/2006, annex XIII.

# 12.6 Endocrine disrupting properties

No data available

# 12.7 Other adverse effects

No data available

# **SECTION 13. DISPOSAL CONSIDERATIONS**

# 13.1 Waste treatment methods

### **Product**

Disposal of this product should be in accordance with local and national legislation. Avoid any direct spillage in drainage systems, surface water and drains. Do not allow to enter into soil/subsoil.

# **Contaminated packagings**

Remaining contents should be emptied and carried out by an authorized waste management company for recycling or disposal



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#### **SECTION 14. TRANSPORT INFORMATION**

#### 14.1. UN number

3082

# 14.2 UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc sulphate)

# 14.3 Transport hazard class(es)

#### ADR / RID:

Class	Code	Group	Label	Ident.	QL	EQ	Cat.	Tunnel
9	M6	III	9	90	5L	E1	3	-

#### IMDG:

Class	Groupe	QL	EMS	EQ
9	II	5L	F-A, S-F	E1

# 14.4 Packing group

ш

#### 14.5 Environmental hazards

Hazardous for environment according to ADR: YES Hazardous for environment according to RID: YES

Marine polluant according to IMDG: YES

# 14.6 Special precautions for user

No complementary information available

# 14.7 Maritime transport in bulk according to IMO instruments

Not applicable

# **SECTION 15. REGULATORY INFORMATION**

# 15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture

Regulation (EC) n° 1907/2006 (REACH) Regulation (EC) n° 1272/2008 (CLP)

SVHC substances:

The product does not contain SVHC >= 0.1% published by ECHA according to REACH

regulation, article 57:

http://echa.europa.eu/fr/candidate-list-table

#### 15.2. Chemical safety assessment

Information not available



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#### **SECTION 16. OTHER INFORMATION**

Safety data sheet based on the legal provisions of Regulation (EC) N° 1907/2006 of the European Parliament and of the Council of 18 December 2006 (REACH), annex II

Hazard statements in section 2 and 3:

H302: Harmful if swallowed

H318: Causes serious eye damage H400: Very toxic to aquatic life

H410: Very toxic to aquatic life with long lasting effects

Abreviations list:

ADR Accord for Dangerous goods by Road

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging of substances and mixtures

CMR Substances classified as Carcinogenic, Mutagenic, or toxic for Reproduction

DNEL Derived No Effect Level

EC European Community

ECHA European Chemical Agency

EMS Emergency response procedures

EQ Excepted Quantities
EU European Union

IMDG International Maritime Dangerous Goods code

IMO International Maritime Organization

PBT Persistent, Bioaccumulative and Toxic substances

PNEC Predicted No Effect Concentration

QL Limited Quantity

REACH Registration, Evaluation, Authorisation and restriction of Chemicals

RID Regulation concerning the International carriage of Dangerous goods by Rail (RID)

STEL Short-Term Exposure Limit
SVHC Substance of Very High Concern

TWA Time Weighted Average
UFI Unique Formula Identifier
LIN the United Nations

UN the United Nations

vPvB very Persistent and very Bio-accumulative substances

WEL Workplace Exposure Limits

This safety data sheet completes the instructions of use but does not replace them. This data is based on the current knowledge relative to the product up to this data. We will not assume any responsibility and will expressly disclaim any liability for any use of the product other than the one for which this product is designed.

The regulatory data given in this safety data sheet is meant to help the user to fulfil regulatory obligations, however.

Compliance with all applicable federal, state, and local laws and regulations remains the responsibility of the user.

This safety data sheet cannot cover all possible situations that the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary.

All health and safety information contained in this bulletin should be provided to your employees or customers. It is your responsibility to develop appropriate work practice guidelines and employee training programs for your operation.