

According to Regulation (EC) N° 1907/2006

Creation Update 16/09/2019 09/09/2022

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

1.1. Product identifier

Product type: Mixture

Commercial name: AGROCEAN LAMINAFLOR - VINOCEAN BMg

Commercial code(s): VAGB - LAMINAFLOR1000 - LAMINAFLOR5F - LAMINAFLOR5M - VINOBMG5F

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):

Product is not classified according to CLP regulation

2.2. Label elements

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

Sianal word:

Product is not subject to labeling according to CLP regulation Hazard statements:

Precautionary statements:

P102: Keep out of reach of children . P270: Do not eat, drink or smoke when handling this product . P401: Storage: Keep away from food, drink and animal feed . P501: Dispose of contents/container in accordance with applicable regulations.

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 >= 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 >= 0,1% included in the list established in accordance with REACH regulation (EC) n° 1907/2006, Article 59(1) for having endocrine disrupting properties.

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.



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SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.2. Mixtures

Classified substances:

Substance / CAS / n° EC / Index / REACH	%	Substance classification
Hydrogen chloride	1-10%	Met. Corr. 1 ; H290
CAS: 7647-01-0		Skin Corr. 1B; H314 (Skin Corr. 1B H314:
EC n°: 231-595-7		C≥25% / Skin Irrit. 2 H315: 10%≤C<25%)
REACH: 01-2119484862-27		Eye Dam. 1; H318 (Eye Irrit. 2 H319:
INDEX: 017-002-01-X		10%≤C<25%)
		STOT SE 3 respiratory system; H335 (STOT
		SE 3 H335: C≥10%)
		[1]

^{[1]:} 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. Seek medical attention in the event of persistant irritation, redness or visual discomfort.

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 metal oxides, 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): Hydrogen chloride (CAS 7647-01-0)

UK TWA = 2 mg/m3 EH40/2005 WEL (Fourth Edition 2020) TWA = 1 ppm STEL = 8 mg/m3

STEL = 5 ppm

STEL = 10 ppm

UE $TWA = 8 \ mg/m3 \\ Directives 2000/39/EC; 2006/15/EC; 2009/161/EU; (EU) 2017/164; \ TWA = 5 \ ppm$

(EU) 2019/1831 STEL = 15 mg/m3

Derived No Effect Level (DNEL):

Magnesium sulphate heptahydrate (CAS 10034-99-8)

. Worker - long term exposure

Systemic effects (cutaneous contact): 21,3 mg/kg bw/day Systemic effects (inhalation): 37,6 mg/m3

. General population - long term exposure

Systemic effects (cutaneous contact): 12,8 mg/kg bw/day Systemic effects (inhalation): 11,1 mg/m3 Systemic effects (oral): 12,8 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/daySystemic effects (inhalation):1,4 mg/m3Systemic effects (oral):1,7 mg/kg bw/day



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Hydrogen chloride (CAS 7647-01-0)

. Worker / General population - acute exposure Local effects (inhalation):	15 mg/m3
. Worker / General population - long term exposure	
Local effects (inhalation):	8 mg/m3

Predicted No Effect Concentration (PNEC):

Magnesium sulphate heptahydrate (CAS 10034-99-8)

Fresh water:	680 μg/L
Marine water:	68 μg/L
Fresh water sediment:	/
Marine water sediment:	/
Water intermittent release:	6,8 mg/L
Seawage treatment plant:	10 mg/L
Soil:	/

Boron ethanolamine (CAS 26038-87-9)

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

Hydrogen chloride (CAS 7647-01-0)

Fresh water:	36 μg/L
Marine water:	36 μg/L
Fresh water sediment:	/
Marine water sediment:	/
Water intermittent release:	45 μg/L
Seawage treatment plant:	36 μg/L
Soil:	0,036 mg/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.



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Environmental exposure controls

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Liquide Physical state 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

pH 5,0 - 6,5

 Kinematic viscosity
 Not determined

 Solubility
 Soluble in water

 Partition coefficient n-octanol/water (log value)
 Not determined

 Vapour pressure
 Not determined

Density and/or relative density 1,260 - 1,265
Relative vapour density Not determined
Particle characteristics 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

None to our best knowledge

10.4. Conditions to avoid

Heat, moisture and light



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10.5. Incompatible materials

No data available

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:

Magnesium sulphate heptahydrate (CAS 10034-99-8) (data for anhydrous form)

ACUTE TOXICITY

Oral: LD50 > 2000 mg/kg bw (OECD 425)
Dermal: LD50 > 2000 mg/kg bw (OECD 402)

Inhalation: /

IRRITATION / CORROSION

Skin: not irritating (RhE)
Eye: not irritating (OECD 405)

SENSITISATION

Skin: not sensitising (OECD 429)

Respiratory: /

CMR

Carcinogenicity: /

Mutagenicity: no adverse effect observed (OECD 471)
Toxicity to reproduction: no adverse effect observed (OECD 422)
Teratogenicity: no adverse effect observed (OECD 422)

TARGET ORGANS TOXICITY

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

REPEATED DOSE TOXICITY

Oral: NOAEL > 1500 mg/kg bw/day (OECD 422)

Dermal: /
Inhalation: /

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: /

VAGB - LAMINAFLOR1000 - LAMINAFLOR5F - LAMINAFLOR5M - VINOBMG5F AGROCEAN LAMINAFLOR - VINOCEAN BMg / FER001 v2.1 AGROCEAN LAMINAFLOR - VINOCEAN BMg 8/13



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CMR Carcinogenicity: no adverse effect observed (OECD 471) Mutagenicity: Toxicity to reproduction: Teratogenicity: TARGET ORGANS TOXICITY not classified Single exposure: not classified Repeated exposure: **ASPIRATION HAZARD** not classified REPEATED DOSE TOXICITY Oral: NOAEL = 1000 mg/kg bw/day Dermal: Inhalation: / Hydrogen chloride (CAS 7647-01-0) **ACUTE TOXICITY** LD50 = 2222 mg/kg bw (tar; calculation) Oral: Dermal: LD50 > 5010 mg/kg bw (rabbit; 31,5% solution) LC50 = 45,6 mg/L (5 min ; rat)Inhalation: IRRITATION / CORROSION corrosive effects (1h; OECD 404) Skin: eye damages (OECD 405) Eye: **SENSITISATION** Skin: not sensitising (OECD 406) Respiratory: **CMR** Carcinogenicity: no adverse effect observed (rat) Mutagenicity: no adverse effect observed (Ames test) Toxicity to reproduction: no adverse effect observed Teratogenicity: TARGET ORGANS TOXICITY Single exposure: may irritate the respiratory tract not classified Repeated exposure: **ASPIRATION HAZARD** not classified REPEATED DOSE TOXICITY Oral: Dermal:

11.2. Information on other hazards

Endocrine disrupting properties

No data available

Inhalation:

Other information

No data available

NOAEC = 15 mg/m3 (rat)



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SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available on mixture. Data on main components:

Magnesium sulphate heptahydrate (CAS 10034-99-8)

FISH

Short-term toxicity: LC50 = 680 mg/L (96 h; Pimephales promelas)

Long-term toxicity: /

AQUATIC INVERTEBRATES

Short-term toxicity: LC50 = 720 mg/L (48 h; Daphnia magna)

Long-term toxicity: /

AQUATIC ALGAE AND CYANOBACTERIA: EC50 = 2700 mg/L (18 days; Chlorella vulgaris)

MICROORGANISMS: EC50 > 100 mg/L

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)

Hydrogen chloride (CAS 7647-01-0)

FISH

Short-term toxicity: LC50 = 20,5 mg/L (24h; Lepomis macrochirus)

Long-term toxicity: /

AQUATIC INVERTEBRATES

Short-term toxicity: EC50 = 0.45 mg/L (OECD 202)

Long-term toxicity: /

AQUATIC ALGAE AND CYANOBACTERIA: EC50 = 0,73 mg/L (OECD 201)
MICROORGANISMS: EC50 = 0,23 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



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12.5 Results of PBT and vPvB assessment

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.

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

SECTION 14. TRANSPORT INFORMATION

14.1. UN number or ID number

Not regulated

14.2 UN proper shipping name

Not regulated

14.3 Transport hazard class(es)

Not regulated

14.4 Packing group

Not regulated

14.5 Environmental hazards

Not regulated



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14.6 Special precautions for user

No complementary information available

14.7 Maritime transport in bulk according to IMO instruments

Not regulated

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 \geq 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

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:

H290: May be corrosive to metals

H314: Causes severe skin burns and eye damage

H318: Causes serious eye damage

H335: May cause respiratory irritation

Abreviations list:

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

EU European Union

IMO International Maritime Organization

PBT Persistent, Bioaccumulative and Toxic substances

PNEC Predicted No Effect Concentration

REACH Registration, Evaluation, Authorisation and restriction of Chemicals

STEL Short-Term Exposure Limit



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SVHC Substance of Very High Concern

TWA Time Weighted Average 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.