

SAFETY DATA SHEET

According to Regulation (EC) N° 1907/2006

Creation	28/10/2019
Update	09/09/2022
Version	3

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

1.1. Product identifier

Product type: Mixture
Commercial name: AGROCEAN ALGABIO Mg - VINOCEAN Mg BIO
Commercial code(s): VAGALGABIOMG - ALGABIOMG5F - VINOMGBIO5F

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:

-

Signal 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
Sorbic acid CAS: 110-44-1 EC n°: 203-768-7 REACH: 01-2119950330-49 INDEX: /	0,1-1%	Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 STOT SE 3 ; H335

[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 persistent 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. Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment to avoid any contact with skin, eyes or personal 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):

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/m ³

. General population - long term exposure

Systemic effects (cutaneous contact):	12,8 mg/kg bw/day
Systemic effects (inhalation):	11,1 mg/m ³
Systemic effects (oral):	12,8 mg/kg bw/day

Sorbic acid (CAS 110-44-1)

. Worker - long term exposure

Systemic effects (cutaneous contact):	40 mg/kg bw/day
Systemic effects (inhalation):	17,63 mg/m ³

. General population - long term exposure

Systemic effects (cutaneous contact):	20 mg/kg bw/day
Local effects (cutaneous contact):	0,17 mg/cm ²
Systemic effects (inhalation):	52,17 mg/m ³
Local effects (inhalation):	26,08 mg/m ³
Systemic effects (oral):	2 mg/kg bw/day

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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:	/

Sorbic acid (CAS 110-44-1)

Fresh water:	0,129 mg/L
Marine water:	0,013 mg/L
Fresh water sediment:	0,465 mg/kg
Marine water sediment:	0,046 mg/kg
Water intermittent release:	0,241 mg/L
Seawage treatment plant:	10 mg/L
Soil:	5 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.

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

<i>Physical state</i>	Liquide
<i>Colour</i>	Green brown
<i>Odour</i>	Characteristic
<i>Melting point/freezing point</i>	Not determined
<i>Initial boiling point and boiling range</i>	Not determined
<i>Flammability</i>	Not flammable
<i>Lower and upper explosion limit</i>	Not determined
<i>Flash point</i>	Not determined
<i>Auto-ignition temperature</i>	Not determined
<i>Decomposition temperature</i>	Not determined
<i>pH</i>	3,0 - 4,0
<i>Kinematic viscosity</i>	Not determined
<i>Solubility</i>	Soluble in water
<i>Partition coefficient n-octanol/water (log value)</i>	Not determined
<i>Vapour pressure</i>	Not determined
<i>Density and/or relative density</i>	1,240 - 1,255
<i>Relative vapour density</i>	Not determined
<i>Particle characteristics</i>	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: /

Sorbic acid (CAS 110-44-1)

ACUTE TOXICITY

Oral: LD50 = 10500 mg/kg bw (rat)
Dermal: LD50 > 2000 mg/kg bw (OECD 402)
Inhalation: /

IRRITATION / CORROSION

Skin: not irritating (OECD 404)
Eye: irritating (OECD 405)

SENSITISATION

Skin: not sensitising (guinea pig)
Respiratory: /

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CMR

Carcinogenicity: no adverse effect observed
 Mutagenicity: no adverse effect observed (EU Method B.18 ; OECD 474)
 Toxicity to reproduction: no adverse effect observed (OECD 416)
 Teratogenicity: no adverse effect observed (OECD 414)

TARGET ORGANS TOXICITY

Single exposure: possible irritation of the respiratory tract
 Repeated exposure: not classified

ASPIRATION HAZARD

REPEATED DOSE TOXICITY

Oral: NOAEL = 6792 mg/kg bw/day (OECD 407)
 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:

Magnesium sulphate heptahydrate (CAS 10034-99-8)

FISH

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

AQUATIC INVERTEBRATES

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

AQUATIC ALGAE AND CYANOBACTERIA:

MICROORGANISMS:

EC50 = 2700 mg/L (18 days ; Chlorella vulgaris)
 EC50 > 100 mg/L

Sorbic acid (CAS 110-44-1)

FISH

Short-term toxicity: LC50 = 75 mg/L (96h ; Japanese killifish)
 Long-term toxicity: /

AQUATIC INVERTEBRATES

Short-term toxicity: EC50 = 70 mg/L (48h ; Daphnia magna)
 Long-term toxicity: NOEC = 50 mg/L (21 days ; Daphnia magna)

AQUATIC ALGAE AND CYANOBACTERIA:

MICROORGANISMS:

EC50 = 24,1 mg/L (72h ; Scenedesmus subspicatus)
 EC10 > 100 mg/L (3h)

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12.2 Persistence and degradability

Mixture composed of more than 95% 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 $\geq 0,1\%$ 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

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14.3 Transport hazard class(es)

Not regulated

14.4 Packing group

Not regulated

14.5 Environmental hazards

Not regulated

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:

H315: Causes skin irritation

H319: Causes serious eye irritation

H335: May cause respiratory irritation

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Abbreviations 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
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.