

SAFETY DATA SHEET

According to Regulation (EC) N° 1907/2006

| | |
|----------|------------|
| Creation | 25/10/2019 |
| Update | 03/03/2020 |
| Version | 2 |

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

1.1. Product identifier

Product type: Mixture
Commercial name: AGROCEAN VITALGO-PLUS
Product code: ME3AGROVITAPLUS - ME3AGROVITAPLUS10 - ME3AGROVITAPLUS10A

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
Fax : +33 2 98 04 55 11

1.4. Emergency telephone number

France :

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

Other UE 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:

-

2.3. Other hazards

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>

Product does not meet criteria for PBT or vPvB mixtures according to REACH regulation (EC) n° 1907/2006, annex XIII.

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

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.2. Mixtures

Classified substances:

Mixture contains no classified substance according to Regulation (EC) N°1272/2008 (CLP)

Other non classified substances:

Water ; Ammonium molybdate tetrahydrate ; Boron ethanolamine ; Laminaria aqueous extract concentrate ; Laminaria ; Xanthan gum

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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.

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 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.

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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.

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

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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Data on components:

Workplace Exposure Limits (WEL):

Ammonium molybdate tetrahydrate (<1%)

| | |
|----------------|---|
| Austria | STEL (Peak), 2 times per shift, 60 minutes : 20 mg Mo/m ³ Inhalable dust fraction 8-hour TWA : 10 mg Mo/m ³ Inhalable dust fraction |
| Belgium | TLV-TWA : 0.5 mg Mo/m ³ Respirable dust fraction TLV-TWA : 10 mg Mo/m ³ Inhalable dust fraction |
| Denmark | 8-hour TWA reference period : 5 mg Mo/m ³ 8-hour TWA reference period : 10 mg Mo/m ³ |
| France | No OEL specifically for molybdenum. 8-hour TWA : 10 mg/m ³ Total dust ; 5 mg/m ³ Respirable fraction |
| Italy | 8-hour TWA 10 mg/m ³ Inhalable dust fraction ; 3mg/m ³ Respirable dust fraction |
| Poland | STEL/Peak for 15 minutes : 10 mg/m ³ 8-hour TWA reference period : 4 mg/m ³ |
| Sweden | 8-hour TWA reference period : 10 mg/m ³ Total dust ; 5 mg/m ³ Respirable dust fraction |
| United Kingdom | longterm exposure limit (8-hour TWA) : 5 mg/m ³ Inhalable dust fraction shortterm exposure limit (15-minute) : 10 mg/m ³ Inhalable dust fraction longterm exposure limit (8-hour TWA) : 10 mg/m ³ Inhalable dust fraction shortterm exposure limit (15-minute) : 20 mg/m ³ Inhalable dust fraction |
| USA | 8-hour TWA : 5,0 mg/m ³ |

Derived No Effect Level (DNEL):

Ammonium molybdate tetrahydrate (<1%)

. Worker - long term exposition

| | |
|---------------------------------------|-------------------------|
| Systemic effects (cutaneous contact): | / |
| Systemic effects (inhalation): | 19,36 mg/m ³ |

. General population - long term exposition

| | |
|---------------------------------------|------------------------|
| Systemic effects (cutaneous contact): | / |
| Systemic effects (inhalation): | 5,77 mg/m ³ |
| Systemic effects (oral): | 5,89 mg/kg bw/day |

Predicted No Effect Concentration (PNEC):

Ammonium molybdate tetrahydrate (<1%)

| | |
|-----------------------------|-------------|
| Fresh water: | 22,01 mg/L |
| Marine water: | 3,94 mg/L |
| Fresh water sediment: | 39170 mg/kg |
| Marine water sediment: | 4090 mg/kg |
| Water intermittent release: | / |
| Seawage treatment plant: | 37,61 mg/L |
| Soil: | 16,46 mg/kg |

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8.2. Exposure controls

Respiratory protection

No individual respiratory protective equipment is necessary.

Hand protection

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

Eye protection

Wear eye glasses with side protection.

Skin and body protection

Wear clean and properly maintained working clothes.

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | |
|--|---------------------------|
| <i>Colour</i> | conform / standard |
| <i>pH (20°C)</i> | 7,000 - 8,000 |
| <i>Density (hydrometer) 20°C</i> | 1,250 - 1,270 |
| <i>Particle size (refused at 280 µm)</i> | absence of crystals/lumps |

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

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

No data available

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SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Informations on toxicological effects

No data available on mixture. Data on components:

Ammonium molybdate tetrahydrate (<1%)

ACUTE TOXICITY

| | |
|-------------|---------------------------------|
| Oral: | LD50 > 2000 mg/kg bw (OECD 401) |
| Dermal: | LD50 > 2000mg/kg bw (OECD 402) |
| Inhalation: | LC50 > 5,1 mg/L (OECD 403) |

IRRITATION / CORROSION

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

SENSITISATION

| | |
|--------------|----------------------------|
| Skin: | not sensitising (OECD 406) |
| Respiratory: | / |

REPEATED DOSE TOXICITY

| | |
|-------------|--|
| Oral: | / |
| Dermal: | / |
| Inhalation: | NOAEC = 420 mg/m ³ (OECD 413) |

CMR

| | |
|---------------------------|----------------|
| Carcinogenicity: | not classified |
| Mutagenicity: | not classified |
| Toxicity to reproduction: | not classified |
| Teratogenicity: | not classified |

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SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available on mixture. Data on components:

Boron ethanolamine (65-75%)

FISH

Short-term toxicity: LC50 > 100 mg/L (fish)
Long-term toxicity: /

AQUATIC INVERTEBRATES

Short-term toxicity: EC50 = 496 mg/L (48h ; Daphnia magna)
Long-term toxicity: /

AQUATIC ALGAE AND CYANOBACTERIA:

EC50 = 26 mg/L (72h ; algae)

MICROORGANISMS:

/

Ammonium molybdate tetrahydrate (<1%)

FISH

Short-term toxicity: LC50 = 237 mg/L (96h ; Oncorhynchus mykiss)
Long-term toxicity: /

AQUATIC INVERTEBRATES

Short-term toxicity: EC50 = 79 mg/L (48h ; Daphnia magna)
Long-term toxicity: /

AQUATIC ALGAE AND CYANOBACTERIA:

EC50 = 333,1 mg/L (72h ; Pseudokirchneriella subcapitata)

MICROORGANISMS:

NOEC = 216,5 mg/L (OECD 209)

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product does not meet criteria for PBT or vPvB mixtures according to REACH regulation (EC) n° 1907/2006, annex XIII.

12.6 Other adverse effects

No data available

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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

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

14.6 Special precautions for user

No complementary information available

14.7 Transport in bulk according to annex II of MARPOL and the IBC code

Not regulated

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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:

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

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.