



SAFETY DATA SHEET

In compliance with EC Regulation No. 1907/2006

Updated on : 19/03/2014 – Version : 2.0

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

1.1. Product identification

AGROCEAN Mg
Magnesium chloride solution

1.2. Relevant identified uses of the substance or mixture

Algae based fertilizer

1.3 Data relative to supplier of Safety data sheet

AGRIMER
Prat Menan - BP 29
29880 PLOUGUERNEAU - FRANCE
Tel : (33) 02 98 04 54 11
Fax : (33) 02 98 04 55 15

1.4. Emergency phone numbers :

Orfilla France (INRS) : + 33 (0)1 45 42 59 59
Centre Anti-Poison (Rennes) : + 33 (0)2 99 59 22 22

SECTION 2 – HAZARD IDENTIFICATION

2.1. Classification of substance or mixture

According to EC Directive 67/548/EC or EC Directive 1999/45/EC, or EC Regulation 1272/2008 : none

2.2. Labeling elements

Labeling according to EC Directive 67/548/EC or EC Directive 1999/45/EC: none

Labeling according to EC Directive 1272/2008 : none

Hazard pictograms : none

Hazard statements : none

Precautionary statements :

P102 : Keep out of reach of children

P103 : Read label before use

P501 : Dispose of contents /container in accordance with local/regional/ national/ international regulations

2.3. Other hazards :

No further relevant information

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Components with hazard statements :

Component	Classification according to EC Regulation 1272/2008	Classification according to EC Directive 67/548/EEC or EC Directive 1999/45/EC	Composition	Classification of mixture
Hexahydrated magnesium chloride CAS : 7791-18-6	none	none	65-70 %	no

EC n° : 232-094-6

Other components :*Laminaria digitata extract***SECTION 4 – FIRST AID MEASURES****4.1. Description of first aid measures**

In case of :

- Inhalation: not specifically concerned (aqueous liquid), provide fresh air.
- Eyes: rinse immediately and abundantly with water for 15 minutes, and consult an ophthalmologist.
- Skin: remove soiled clothes, rinse abundantly for 15 minutes. Consult a doctor in case of itching and redness.
- Ingestion: rinse mouth with water. Consult a doctor immediately. Do not vomit.

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

Depending on the type of exposition: redness, stinging, itching, nausea, vomiting, diarrhea...

4.3. Indication of any immediate attention and special treatment needed

No further relevant information available.

SECTION 5 – FIRE FIGHTING MEASURES**5.1. Extinguishing media****Suitable extinguishing agents:** all types of extinguishing agents are suitable (CO₂, extinguishing powder, water spray, alcohol resistant foam...)**Specific hazards:** possible emission of toxic fumes. Collect contaminated fire extinguishing water separately and eliminate according to applicable regulation**Protective equipment :** fire-fighting masks**5.2. Specific hazards arising from the substance or mixture**

No further information available, emissions resulting from combustion may contain sulfur oxides and nitrogen oxides.

5.3. Advice for firefighters

Do not enter or stay in hazardous area without protective clothing and autonomous breathing equipment

SECTION 6 – ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with eyes and skin. Use rubber or latex gloves, and protective eyewear.

6.2. Environmental precautions

Contain spills. Do not reject directly in sewer or in the natural environment (surface or groundwater). Inform authorities of any spills.

6.3. Methods and material for containment and cleaning up

Do not dilute. Absorb with liquid binding material. Dispose contaminated material as waste according to item 13. Do not refill original packaging.

6.4. Reference to other sections

See section 8 for information on personal protective equipment

See section 13 for disposal information.

SECTION 7 – HANDLING AND STORAGE**7.1. Precautions for safe handling**

Handling : use a chemical protection mask, rubber or latex gloves, protective eyewear
Avoid spilling and accidental projections. Avoid contact with skin and eyes. Do not breathe vapors.
Do not eat, smoke or drink in work area. Wash hands before breaks and after using product.

7.2. Conditions for safe storage, including incompatibilities

Storage: in closed container, away from heat or freezing temperatures. Do not store close to food products or drinks, including animal feed. Stacking of pallets must be limited to 2 pallets.
Container: 1000 liter tank, 5 or 10 liter tank. Do not transfer to other containers. Keep product in original container, well closed and with original labeling.

7.3. Specific end uses

No further relevant information available

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION**8.1. Control parameters**

Advice for the workplace : work outdoors or insure a good ventilation/exhaustion at the workplace
Limit values for monitoring at the workplace : no studies have been carried out on the mixture

8.2. Exposure controls

Monitoring means : occupational health services

Protective equipment

Breathing equipment : P1 filter against aerosols,

Protection of skin: gloves resistant against chemicals. Protective clothing (plastic sleeve covers, apron, gloves with sleeve covers, single use suits...) depending on use,

Protection of eyes : protective eyewear,

Specific hygiene measures: wash hands after handling product. Do not eat, smoke or drink during use of product,

Protection of the environment: Empty rinsing water of the original container into the spraying tank of machine for fertilizing.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Appearance : Green liquid

Odor : typical

Density : 1.300-1.307

pH : 5.86-6.25

Solubility : fully miscible

Melting point : Not determined

Boiling point: Not determined

Decomposition temperature : Not determined

Vapor pressure: not applicable.

Danger of explosion : not applicable

Combustive properties : not applicable

9.2. Other information

No further relevant information available

SECTION 10 – STABILITY AND REACTIVITY**10.1 Reactivity**

No available data (no particular risks expected)

10.2 Chemical stability

The product is stable in the normal conditions of use.

The product may change colors in time, without alteration of its properties.

10.3 Possibility of hazardous reactions

No available data on mixture.

Magnesium chloride may react with sulfuric acid or oxidizers.

10.4 Conditions to avoid

Storage at temperatures above 25 °C and below 5°C

10.5 Incompatible materials

Do not store in metal containers

10.6 Hazardous decomposition products

No dangerous decomposition products known. In case of fire, see section 5.

SECTION 11 – TOXICOLOGICAL INFORMATION**11.1 Information relative to toxicological effects**

No tests carried out on mixture

Acute toxicity : not classified

Magnesium chloride (65-70 %) :

DL50 oral rat : 8100 mg/kg

Skin irritation : not classified

Magnesium chloride (65-70 %) :

No irritation of rabbit skin, OECD test 404, a prolonged and repeated exposition may lead to a slight irritation of the skin

No irritating effects on eyes, rabbit OECD test 405

Sensitization : no sensitizing effects known

Chronical toxicity : no available data for mixture

Carcinogenic properties : no available data for mixture

Magnesium chloride (65-70 %) :

Available data show no cancerous effects

Mutagenicity : no available data for mixture

Magnesium chloride (65-70 %) :

Ames test : negative

Available data show no mutagenic effects.

Toxicity for reproduction : no available data for mixture

Magnesium chloride (65-70 %) :

Available data show no teratogenous effects.

SECTION 12 – ECOLOGICAL INFORMATION**12.1 Toxicity**

No studies have been carried out for the mixture.

Components :

Magnesium chloride (65-70 %) :

EC50 *Photobacterium phosphoreum*, 30 min : 77200 mg/l

EC50/24 h *Daphnia magna* : 2980 mg/l

LC50 24 h *Leuciscus idus* : 16350 mg/l

LC50 96 h *Pimephales idus* : 2120 mg/l

12.2 Persistence and degradability

Inorganic substance, not biodegradable

No negative impact expected on wastewater treatment plant.

12.3 Bioaccumulative potential

No further relevant information

12.4 Mobility in soil

No studies have been carried out for the mixture.

12.5 Results of PBT and vPvB assessments

No studies have been carried out for the mixture.

12.6 Other adverse effects

No further relevant information

SECTION 13 – DISPOSAL CONSIDERATIONS**13.1 Waste treatment method**

Residues: Must be disposed according to applicable regulations.

Must not be disposed in sewage system.

Classification : 06 03 14 Solid salts and solutions

Destruction of packaging: Eliminate cardboard, pallets, containers according to applicable regulations.

Recommended cleaning agent: Empty rinsing water of the original container into the spraying tank of machine for fertilizing.

SECTION 14 - TRANSPORT INFORMATION

14.1. UN Number : not regulated

14.2 UN shipping name : not regulated

14.3 Transport hazard class :

Road (ADR 2011) : not regulated

Maritime (IDMG 2011) : not regulated

14.4 Packing group : not regulated

14.5 Environmental hazards : not regulated

14.6 Specific precautions by the user : no further information available

14.7 Transport of bulk according to annex II of MARPOL 73/78 convention and IBC Code : not applicable

SECTION 15 – REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the substance or mixture :

Hazard pictograms : none

Hazard statements : none

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16 – OTHER INFORMATIONS

The content and the format of the Material Safety Data Sheet comply with EC regulation 1907/2006 and regulation 453/2010.

Details of revision : new format

Risk phrases in section 2 : none

Risk phrases in section 3 : none

This safety data sheet complements the technical instructions of use. The information is based on the current knowledge relative to the product on the date of the update of the document. The manufacturer will not be held responsible for consequences of the use of the product for uses other than the relevant identified use. This document shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.