

SAFETY DATA SHEET

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

1.1. Product identifier

Product name : FIXA MG

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

Use for agriculture (nutrients/ trace elements for plants)

1.3. Details of the supplier of the safety data sheet

Registered company name : AGRONUTRITION SAS..

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Association/Organisation : New Zealand National Poisons Centre : poisons@otago.ac.nz.

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

GHS compliant.

Eye irritation, Category 2A (Eye Irrit. 2A, H319).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2. Label elements

GHS compliant.

Hazard pictograms :



GHS07

Signal Word :

WARNING

Hazard statements :

H319

Causes serious eye irritation.

Precautionary statements - General :

P102

Keep out of reach of children.

Precautionary statements - Prevention :

P202

Do not handle until all safety precautions have been read and understood.

P273

Avoid release to the environment.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements - Response :

P305 + P351 + P338

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

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Precautionary statements - Disposal :

P501

Dispose of contents/ container to an approved waste disposal plant.

2.3. Other hazards

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition :

Identification	GHS	Note	%
CAS: 10377-60-3 EC: 233-826-7 MAGNESIUM NITRATE	GHS07 Wng Eye Irrit. 2, H319		50 <= x % < 100

Information on ingredients :

(Full text of H-phrases: see section 16)

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

Bring the packaging, label or Material Safety Data when you call the emergency number, a poison control center or doctor.

4.1. Description of first aid measures

In the event of exposure by inhalation :

Remove the victim to fresh air. In case of respiratory problems, consult a doctor/medical service.

In the event of splashes or contact with eyes :

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

If there is any redness, pain or visual impairment, consult an ophthalmologist.

In the event of splashes or contact with skin :

Wash with plenty of water and soap. In case of redness or irritation, consult a doctor/medical service.

In the event of swallowing :

Seek medical attention, showing the label.

Give nothing by mouth. Do not induce vomiting.

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

Symptoms/lesions after inhalation: cough, respiratory tract irritation.

Symptoms/lesions after skin contact : skin irritation, redness.

Symptoms/lesions after eye contact : corrosion, irritation of eye tissues.

Symptoms/lesions after ingestion: abdominal pain, nausea.

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

Specific and immediate treatment :

No specific treatment.

Eye bathing the scene.

SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media

Suitable methods of extinction

In the event of a fire, use :

- sprayed water or water mist
- foam
- powder
- carbon dioxide (CO₂)

The choice of the method depends on the other products present.

Do not use a strong water jet, danger of spreading of the product.

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

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In the event of a fire, the following may be formed :

- nitrogen oxide (NO)
- nitrogen dioxide (NO₂)

5.3. Advice for firefighters

Precautions against fire: like in case of all fires involving chemicals, wear appropriate protective equipment (chemical protective clothing, boots and gloves).

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Avoid any contact with the skin and eyes.

If spill is large, evacuate all personnel and only allow intervention by trained operators and equipped with individual protection equipment appropriate (refer to Section 8).

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures.

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

Accidental, ventilate the area and recovered by pumping the product for re-use (preferably) spill. If the operation of pumping is not suitable, cover the product dry sand or vermiculite. Mix and make its removal by scanning. Transfer to a suitable container (dumpster) properly labeled and proceed to disposal by a company authorized to waste collection.

6.4. Reference to other sections

See section 1 for information about emergency contact.

See section 13 for obtain additional information on waste treatment.

See section 8 for information on personal protection equipments.

See section 7 for information on safe handling.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Avoid inhalation of spreading (spraying).

Fire prevention :

Prevent access by unauthorised personnel.

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid eye contact with this mixture.

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Storage

Keep out of reach of children.

Keep away from food, drink and animal feedingstuffs.

Keep the product away from heat sources.

Storage temperature: 0-35°C

Packaging

Always keep in packaging made of an identical material to the original.

Replace the label in case of split of packaging.

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7.3. Specific end use(s)

No data available.

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

No data available.

8.2. Exposure controls**Personal protection measures, such as personal protective equipment**

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles with protective sides accordance with standard EN166.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

- Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- Natural latex
- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))
- PVC (polyvinyl chloride)
- Butyl Rubber (Isobutylene-isoprene copolymer)

- Body protection

Suitable type of protective clothing :

Wear suitable protective clothing, in particular overalls and boots. These items must be kept in good condition and cleaned after use.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

- Respiratory protection

Category :

- FFP2

If the setting oeuvre the product and its application (spray atomization) is generating aerosol or fine particles liquids, it is recommended to wear a respirator, properly fitted.

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

No data available.

Physical state

Physical state :

Fluid liquid.

State

Soluble concentrate (SL)

Colour

Color

Opaque Dark Brown

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Odour

Odor Ammoniacal (weakly pungent)

Melting point

Melting point/melting range : Not relevant.

Freezing point

Freezing point / Freezing range :

Boiling point or initial boiling point and boiling range

Boiling point/boiling range : Not relevant.

Flash point

Flash point interval : Not relevant.

Auto-ignition temperature

Self-ignition temperature : Not relevant.

Decomposition temperature

Decomposition point/decomposition range : Not relevant.

pH

pH : 2.10 +/-0.6.
Slightly acidic.

pH (aqueous solution) : 4.7 +/-0.6 (1%)

Solubility

Water solubility : Soluble.

Vapour pressure

Vapour pressure (50°C) : Not relevant.

Density and/or relative density

Density : 1310 (+/-1.5%) g/dm³

9.2. Other information

No additional information.

9.2.1. Information with regard to physical hazard classes

No data available.

Oxidising liquids

Oxidising properties :

9.2.2. Other safety characteristics

No additional information.

SECTION 10 : STABILITY AND REACTIVITY**10.1. Reactivity**

No dangerous reaction known under normal conditions of use and storage.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

According to our knowledge, this product does not present any particular hazard under normal conditions of use and storage.

10.4. Conditions to avoid

Avoid :

- frost
- exposure to light

10.5. Incompatible materials

Keep away from :

- strong bases
- strong oxidising agents

10.6. Hazardous decomposition products

The product does not decompose when used for its intended purpose.

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SECTION 11 : TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.

11.1.1. Substances**Acute toxicity :**

MAGNESIUM NITRATE (CAS: 10377-60-3)

Oral route :

LD50 > 5000 mg/kg

Species : Rat

11.1.2. Mixture**Acute toxicity :**

Not classified. Based on the available data, the classification criteria are not met.

Skin corrosion/skin irritation :

Not classified. Based on the available data, the classification criteria are not met.

Serious damage to eyes/eye irritation :

Causes severe eye irritation

The severity depends on the concentration and exposure time.

Respiratory or skin sensitisation :

Not classified. Based on the available data, the classification criteria are not met.

Germ cell mutagenicity :

Not classified. Based on the available data, the classification criteria are not met.

Carcinogenicity :

Not classified. Based on the available data, the classification criteria are not met.

Reproductive toxicant :

Not classified. Based on the available data, the classification criteria are not met.

Specific target organ systemic toxicity - single exposure :

Not classified. Based on the available data, the classification criteria are not met.

Specific target organ systemic toxicity - repeated exposure :

Not classified. Based on the available data, the classification criteria are not met.

Aspiration hazard :

Not classified. Based on the available data, the classification criteria are not met.

Endocrine disrupting properties

The mixture does not contain substances identified as disrupting the endocrine system for human health.

SECTION 12 : ECOLOGICAL INFORMATION

The mineral elements (nutrients) contained in this product are essential for healthy plant growth, but may be harmful in large quantities to wildlife, aquatic organisms or sensitive plants. It is therefore necessary to minimize the amount of product released into the environment, except as part a rational fertilization program for the plants, preferably after a test for soil and/or plant issues.

12.1. Toxicity**12.1.2. Mixtures**

Not classified. Based on the available data, the classification criteria are not met.

12.2. Persistence and degradability**12.2.2. Mixtures**

This product is considered readily biodegradable (slightly hazardous) and it is very soluble in water. Ensure that all flow not not resulted in the aquatic environment, or any sewer or drain. When using, do not spill the product beyond the cultivated areas (hedges, edges, ditches, streams).

12.3. Bioaccumulative potential**12.3.2. Mixtures**

No bioaccumulation data is available.

12.4. Mobility in soil

No information is available on mobility in soil. It is therefore essential to avoid at all costs that it spills into sewers or waterways. Prevent it from entering the ground.

12.5. Results of PBT and vPvB assessment

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

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12.6. Endocrine disrupting properties

The mixture does not contain substances identified as disrupting the endocrine system for the environment $\geq 0.1\%$.

12.7. Other adverse effects

No information is available on other adverse environmental effects.

SECTION 13 : DISPOSAL CONSIDERATIONS

The appropriate waste management of the mixture and/or its container must be determined in accordance with local regulations.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

Local arrangements :

Product must be disposed of in accordance with local and national regulations.

SECTION 14 : TRANSPORT INFORMATION

Exempt from transport classification and labelling.

14.1. UN number

-

14.2. UN proper shipping name

-

14.3. Transport hazard class(es)

-

14.4. Packing group

-

14.5. Environmental hazards

-

14.6. Special precautions for user

-

SECTION 15 : REGULATORY INFORMATION

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

The following regulations have been used:

- Globally Harmonized System of Classification and Labelling of Chemicals (GHS), review no. 7 (2017)

- Container information:

No data available.

- Particular provisions :

No data available.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

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Wording of the phrases mentioned in section 3 :

H319 Causes serious eye irritation.

Abbreviations :

LD50 : The dose of a test substance resulting in 50% lethality in a given time period.

REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

GHS07 : Exclamation mark

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.