

MICROSTAR PMX

AGRO-NUTRITION

- 1 – IDENTIFICATION OF CHEMICAL PREPARATION AND COMPANY

Commercial Name: **MICROSTAR PMX**

Use: For agriculture (nutrients/trace elements for plants).

Company Identification: AGRO-NUTRITION S.A.S.

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- 2 – IDENTIFICATION OF HAZARDS

Hazard Classification: **NON HAZARDOUS SUBSTANCE. NON DANGEROUS GOOD.**

Not classified as a hazardous substance according to the criteria of NOHSC.

Not classified as a dangerous good according to the Australian Dangerous Goods Code for Rail and Road Transport, 7th Edition.

Poison Schedule: Not scheduled (according to SUSMP)

- 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Micro-granulated mixture MgO + NP & OE-based.
No hazardous components.

- 4 – FIRST AID**GENERAL INFORMATION:**

- Generally, in case of doubt or when symptoms appear, always call the doctor and show the safety data sheet. Immediately remove contaminated clothes.
- Do not give the victim anything to eat or drink, and do not induce vomiting if the victim is unconscious. Contact the Poisons Information Centre (Phone 13 11 26) or a doctor and follow the advice given. Show this MSDS to a doctor.

- 4 – FIRST AID (continued)**EYE CONTACT:**

- In case of contact with eyes flush immediately with plenty of flowing water for 20 minutes holding eyelids apart.
- If there is any pain, redness or visual impairment, consult an ophthalmologist.

INHALATION:

- Unlikely.
- Move to fresh air, rest, place in recovery position, loosen clothing.

SKIN CONTACT:

- Product is not irritating. Wash with plenty of water and soap.
- Immediately remove contaminated clothes. In case of redness, obtain medical attention.

INGESTION:

- Rinse mouth thoroughly with water and give plenty of water to drink.
- Do not induce vomiting (unless otherwise specified by medical personnel).
- Obtain immediate medical help.

NOTES TO PHYSICIAN:

Most important symptoms and effects, both acute and delayed:

- Skin: slight (or no) irritant effect on skin and mucous membranes.
- Eye: slight (or no) irritant effect on eye.
- Sensitization: No sensitizing effects known.
- Dust can irritate respiratory system.

- 5 – FIRE FIGHTING MEASURES

No specific fire or explosion hazard. Contaminated extinguishing water must be kept secured and must not be discharged into a sewer or watercourse (ditch).

EXTINGUISHING MEDIA: Use an extinguishing agent suitable for the surrounding fire. Preferably CO₂, powder, foam, water spray. Otherwise, any extinguishing agent can be used. The choice of method depends on the other products present. Do not use a strong water jet due to danger of spreading of the product.

HAZARDS FROM COMBUSTION PRODUCTS: Avoid breathing spray and smoke. Thermal decomposition products may include the emission of toxic gas (phosphorus oxides, ammonia).

PROTECTIVE EQUIPMENT FOR FIRE FIGHTING: Like in the case of all fires involving chemicals, wear appropriate protective equipment (chemical protective clothing, boots and gloves). Wear full protective clothing and self-contained breathing apparatus due to the toxicity of gases emitted.

- 6 – ACCIDENTAL RELEASE MEASURES**PERSONAL PRECAUTIONS:**

For Non-Emergency Personnel:

Keep unprotected people away, allow only well trained experts wearing suitable protective clothing to be present at the scene of the accident.

For Emergency Responders:

Avoid contact with skin and eyes. Wear protective clothing, gloves and rubber boots or plastic safety glasses with side protection. In case of insufficient ventilation wear suitable respiratory equipment (filter mask).

- 6 – ACCIDENTAL RELEASE MEASURES (continued)

ENVIRONMENTAL PRECAUTIONS: Dispose of spillage and waste (product/packaging) in accordance with all applicable environmental laws. Do not enter into drains, watercourses and soil. Notify the respective authorities in accordance with local law in the case of environmental pollution immediately.

METHODS FOR CLEANING UP: In case of accidental spill, ventilate the area and recover by pumping the product. If the pumping operation is not appropriate, cover the product with dry sand. Mix spilled product with sand and sweep up. Place into a suitable, closed, properly labelled chemical waste container for disposal. Disposal via a licensed waste treatment company.

- 7 – HANDLING AND STORAGE

HANDLING: The usual precautionary measures for handling chemicals should be observed. Observe precautions stated on the label and in workplace regulations. Avoid formation and inhalation of dust.

Personal Protection: See section 8.

Technical Measures: Ensure adequate ventilation. If performing any operation in enclosed industrial spaces, provide local exhaust at the emission sources of dusts and ensure an adequate ventilation of spaces.

Precautions Against Fire and Explosion: Remove all heat sources.

STORAGE: Keep in the original, closed and labelled container. The place of storage has to be properly ventilated and cleanable. Keep away from moisture, in a cool and dry place. Replace the label in case of split of packaging. Storage temperature without restriction.

Incompatible materials: Reactive or incompatible with strong oxidizing agents.

Packaging: Store in the original packaging and carefully reseal the pack after each use.

- 8 – EXPOSURE CONTROLS & PERSONAL PROTECTION**EXPOSURE STANDARDS & CONTROLS:**

No exposure limits or biological limits have been established. In case of a hazardous material with no controlled concentration limit it is the employer's duty to keep concentration levels down to a minimum achievable by existing scientific and technological means, where the hazardous substance poses no harm to workers.

PERSONAL PROTECTION:

Avoid spilling onto clothes and floors and avoid contact with eyes and skin. Do not smoke, eat and drink in areas where this material is handled, stored or used. Observe strict personal hygiene: wash hands and face before eating, taking a shower and change clothes after work. Avoid spilling of the product, keep workplace clean.

Eye/Face Protection: Wear tightly sealed protective goggles. Wearing protective eyewear complying with an approved standard is recommended when a risk assessment indicates that this is necessary to avoid exposure to liquid splashes and mists.

Skin Protection:

- a. Hand Protection: Protective gloves. Wearing impervious and chemical resistant gloves in accordance with an approved standard is recommended always in case of handling the product.
- b. Other: Protective equipment in the workplace should be selected according to the activity, the type of exposure and the amount of product handled, eg apron, protecting boots, protective suit against chemical (in case of spills).

- 8 – EXPOSURE CONTROLS & PERSONAL PROTECTION (continued)

Respiratory Protection: In case of handling of product it is recommended to wear a properly fitted respirator in accordance with an approved standard if a risk assessment indicates that this is necessary.

Thermal Hazard: No data available.

ENVIRONMENTAL EXPOSURE CONTROLS:

Do not allow product to enter into drains, watercourses and soil. Collect small amounts of spilled product.

The requirements detailed in Section 8 assume skilled work under normal conditions and usage of the product for appropriate aims. If conditions differ from normal or work is carried out under extreme conditions an expert's advice should be sought out before deciding upon further protective measures.

- 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: solid micro-spherical granules - light brown to dark (depending on nature)

ODOUR: slightly, characteristic of ammonia

VAPOUR PRESSURE: No data available

MELTING POINT: No data available

BOILING POINT/RANGE: No data available

WATER SOLUBILITY: Miscible with water (saturation: 15%)

DENSITY: 0.850 (+/- 50) g/cm³

pH: 7.6-8.2

FLASH POINT: No data available

FLAMMABILITY: No data available

EXPLOSIVITY: Product is not explosive.

- 10 – STABILITY AND REACTIVITY

STABILITY: The product is stable. Under normal conditions of storage and use, hazardous polymerisation will not occur.

Reactivity: No data available.

Possibility of Hazardous Reactions: None known.

CONDITIONS TO AVOID: Stable at general conditions of work. (see Section 7).

MATERIALS TO AVOID: Reactive or incompatible with strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition products may include the emission of toxic gas: (phosphorus oxides, ammonia, NO_x).

- 11 – TOXICOLOGICAL DATAInformation on Toxicological Effects:**Health Effects:**

Acute Toxicity: No data available.

Irritation: Skin: slight (or no) irritant effect on skin and mucous membranes.

Eye: slight (or no) irritant effect on eye.

Dust can irritate respiratory system.

Corrosivity: No data available.

Sensitization: No sensitizing effects known.

Repeated Dose Toxicity: No data available.

Carcinogenic: No data available.

Mutagenicity: No data available.

Toxicity for Reproduction: No data available.

Summary of Test Results: No data available.

Relevant toxicological properties of the Hazardous Substances: Based on the components, it is possible: LD50 (oral, rat) > 5 000 mg/kg.

Information on Likely Routes of Exposure: No data available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

No health risk associated with this product if handled in accordance with good industrial hygiene and safety practice.

Interactive Effects: No data available.

Absence of Specific Data: No data on the preparation is available.

Other information: No data available.

- 12 – ECOLOGICAL INFORMATION**ECOTOXICITY:**

This product contains phosphate. Phosphate is a nutrient for the plants and as such may promote the growth of phytoplankton in the water. The nutrients contained in this product are essential for good plant growth, but are likely to be harmful in large amounts to susceptible plants and aquatic organisms. It is therefore necessary to minimize the amount of product released into the environment, except as part of a rational fertilization program for the plants, preferably after a soil test and/or plant tissues.

PERSISTENCE AND DEGRADABILITY:

This product is considered readily biodegradable (slightly hazardous) and is very soluble in water. Do not enter into drains, watercourses and soil. When using the product avoid spreading of the product in the cultivated areas. (hedges, borders, ditches, streams). Bioaccumulation potential: No data available.

MOBILITY:

No data available.

- 13 – DISPOSAL CONSIDERATIONS

DO NOT dispose of undiluted chemicals on site. Disposal of this product, solutions and by-products should at all times comply with the requirements for environmental protection and disposal of waste and the requirements of all local authorities. This product is recyclable. Removal should be considered by this method.

- 13 – DISPOSAL CONSIDERATIONS (continued)

Break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

This product is recyclable. Removal should be considered by this method.

Disposal of the Packaging: Container must be completely empty. Keep the label(s) on the container. Submit to a recognized disposal system.

- 14 – TRANSPORT INFORMATION

Not classified as a Dangerous Good according to the Australian Dangerous Goods Code for Rail and Road Transport, 7th Edition.

Thus, no UN No., UN Proper Shipping Name, DG Class, Special Precautions or Hazchem Code allocated.

Not a marine pollutant.

- 15 – REGULATORY INFORMATION

SUSMP: Not Scheduled

Respect the instructions for use to avoid risk for man and environment.

- 16 – OTHER INFORMATION

Date of Issue: 31 October 2012

Replaces Version Dated: None

Details of Changes since Last Issue: Initial version

NOHSC – National Occupational Health and Safety Commission

SUSMP – Standard for the Uniform Scheduling of Medicines and Poisons

Information contained in this Material Safety Data Sheet is based on our present knowledge of the product and concern a product description in conformity with Health, Safety and Environmental regulations.

Our local licensee, liable for the local distribution of the product, will ensure that this safety data sheet conforms to the local regulations.

This information should be used as a guide and does not imply any warranty concerning the specific properties of the product and the specific local needs.