Date of issue: : 20.04.2023

Date of revision: : 20.04.2023

Version: : Version 5

Section 1. Identification

Product identifier : Pharmamin-M

Product type : Fertilizer/Foliar feed – water soluble

Uses

Area of application : Professional applications

Material uses : Fertilizers

Supplier

Supplier's details : ADRIATICA SpA

Physical address

Street : Strada Dogado 300, 19-21

Postal code : 45017

City : Loreo - ROVIGO

Country : Italy

National advisory body poison centre

Name : **Victorian Poisons Information Centre**
Address: 145 Studley Rd, Heidelberg VIC 3084, Australia
Phone: 13 11 26 (24 hours a day, seven days a week)
Fax: (03) 9496 4912

Section 2. Hazard(s) identification

Classification of the substance/mixture

Reproductive toxicity – category 1B

Hazard pictogram

Signal word: Danger

Hazard statements

H 360 -May damaging of fertility and unborn child (Category 1B)

Precautionary statements

P 102: Keep out of reach of children

P 203: Obtain, read and follow all safety instructions before use

P 280: Wear protective eye/face protection and clothing when handling product

P 264: Wash hands thoroughly after handling

P 270: Do not eat drink or smoke when using this product

P 405: Store locked up

P 410: Protect from sunlight

P 403: Store in a well-ventilated place

P 404: Store in a closed container

P 501: Dispose of containers in accordance with local regulation

Response

P 318: If exposed or concerned, get medical help

Other hazards not resulting in classification : None

Section 3. Composition/information on ingredients

Substance/mixture : Inorganic substance

CAS number/other identifiers

Other identification : Macro and micronutrient combination product

CAS number : Combination product no final CAS number

EC number : No applicable

Ingredient CAS	% formulation
10043-35-3	1.400
NA	47.200
7757-79-1	8.400
15245-12-2	32.000
10377-60-3	10.000
73513-47-0	1.000
	100.000

Section 4. First-aid measures

Description of necessary first aid measures

Eye contact

Rince with plenty of lukewarm water

Prevent person from rubbing eyes/

Check for and remove any contact lenses.

Oral consumption

Wash out mouth with water.

If material has been swallowed and the exposed person is conscious, give small quantities of water to drink.

Do not induce vomiting unless directed to do so by medical personnel.

Seek medical attention if adverse health effect persists, or are severe

Most important symptoms/effects, acute and delayed

Potential acute health effects **:** See section 4

Eye contact : No known significant affects or critical hazards.

Oral consumption : No known significant affects or critical hazards

Over exposure signs/symptoms

Eye contact : No specific data

Inhalation : No specific data

Skin contact : No specific data

Ingestion : No specific data

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

Treat symptomatically.

Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments

Wash eyes with water

Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Use water as extinguishing agent

Unsuitable extinguishing media

None identified

Specific hazards arising from chemical

None identified

Hazardous thermal decomposition products

None identified

Special protective actions for fire-fighters

Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode.

Remark : Non-explosive

Section 6. Accidental release measures

Personal precautions, protective equipment, and emergency procedures

For non-emergency personnel

Vacuum, shovel or sweep up material and place in a designated, labelled waste container

Dispose of via a licensed waste disposal contractor

For emergency responders : None

Environmental precautions : None

Methods and materials for containing and clean up

Small spill

Move containers from spill area.

Vacuum, shovel or sweep up material and place in a designated, labelled waste container.

Wash area with water

Large spill

Move containers from spill area.

Vacuum, shovel or sweep up material and place in a designated, labelled waste container.

Wash area with water

See section 1 for emergency contact information and Section13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Not for human or animal consumption

Protective measures

Put on appropriate personal protective equipment (see section 8).

Do not ingest.

Avoid contact with eyes, skin and clothing

Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.

Advice on general occupational hygiene

Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed.

Workers should wash hands and face before eating, drinking, and smoking.

Conditions for safe storage/any incompatibilities

Store in accordance with local regulations.

Do not store at temperatures higher than 35 degrees C

Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10), and food and drink.

Keep container tightly closed and sealed until ready for use.

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Do not store in unlabelled containers.

Section 8. Exposure control/personal protection

Control parameters

Occupational exposure limits : None

Appropriate engineering controls

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Use protective equipment

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Individual protection measures

Hygiene measures

Washing facility or water for eye and skin cleaning procedures should be present

Wash hands, forearms, and fact thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the working period.

Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gasses or dusts.

Skin protection

Hand protection

Chemical-resistant, impervious gloves complying with an approved standards should be worn at all times when handling chemical products if a risk assessment indicates this necessary.

Body protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved, and should be approved by a specialist before handling this product.

Respiratory protection

Wear face mask.

Personal protective equipment

Wear face mask

Wear protective gloves

Section 9. Physical and chemical properties

Appearance

Physical state at 20 degrees C	: Liquid
Colour	: beige
Odour	: Odourless
Odour threshold	: Not applicable**
pH	: 4,0 – 4.5 (1% water solution at T = 20°C)
Melting point/freezing point	: No applicable
Boiling/condensation point	: Not applicable**
Sublimation temperatures	: Not determined**
Flash point	: Not determined**
Evaporation rate	: Not determined**
Flammability	: Non flammable**
Lower and upper explosion limit	: Lower: Not applicable**

Upper: Not applicable**

Vapour pressure at 20 degrees C: Not applicable**

Vapour pressure at 50 degrees C: Not applicable**

Evaporation at 20 degrees C	: Not applicable**
Solubility in water at 20 degrees C	: Completely soluble
Partition coefficient: n-octanol/water	: Not applicable**
Auto-ignition temperatures	: Not applicable**
Decomposition temperature	: Not applicable**
Viscosity	: Dynamic: Not applicable**
	Kinematic: Not applicable**
Explosive properties	: Non-explosive

** Not relevant due to the nature of the product, not providing information property or its hazard.

Section 10. Stability and reactivity

Reactivity

No specific test data related to reactivity available for this product or its ingredients

Chemical stability

Chemically stable under the conditions of storage, handling and use

Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur

Conditions to avoid

Avoid contamination by any source including metals, dust and organic materials.

Incompatible materials

No specific data

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition product should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Experimental information related to toxicological properties of product not available

Conclusion/summary

May damage fertility or unborn child

Sensitization

Conclusion/summary

Skin : No known significant effect or critical hazards

Respiratory : No known significant effect or critical hazards

Mutagenicity

Conclusion/summary : No known significant effect or critical hazards

Carcinogenicity

Conclusion/summary : No known significant effect or critical hazards

Reproductive toxicity

Conclusion/summary : May damage fertility or unborn child

Specific target organ toxicity (single exposure)

Conclusion/summary : No known significant effect or critical hazards

Specific target organ toxicity (repeated exposure)

Conclusion/summary : No known significant effect or critical hazards

Aspiration hazard

Conclusion/summary : No known significant effect or critical hazards

Information on likely routes of exposure: Not available

Potential acute health effects

Eye contact : No known significant effect or critical hazards

Ingestion : No known significant effect or critical hazards

Symptoms related to physical, chemical, and toxicological characteristics

Eye contact : No specific data

Inhalation : No specific data

Skin contact : No specific data

Ingestion : No specific data

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available

Potential delayed effects : Not available

Long term exposure

Potential immediate effects : Not available

Potential delayed effects : Not available

Potential chronic health effects : No available

Carcinogenicity : Not known significant effects or critical hazards

Mutagenicity : Not known significant effects or critical hazards

Fertility effects : Not known significant effects or critical hazards

Developmental effects : Not known significant effects or critical hazards

Effects on or via lactation : Not known significant effects or critical hazards

Other effects : Not known significant effects or critical hazards

Over exposure signs/symptoms

Eye contact : No specific data

Inhalation : No specific data

Skin contact : No specific data

Ingestion : Adverse symptoms may include stomach cramps and pain

Numerical measures of toxicity

Acute toxicity estimates: Oral : No ATE

Acute toxicity estimates: Dermal : No ATE

Acute toxicity estimates: Inhalation : No ATE

Section 12. Ecological considerations

Toxicity

Conclusion/summary : No known significant effect or critical hazards

Persistence and degradability

Conclusion/summary : No known significant effect or critical hazards

Bio-accumulative potential

Conclusion/summary : No known significant effect or critical hazards

Mobility in soil

Soil/water partition coefficient (KOC) : Not available

Mobility : The product may move with surface and ground water flows because it is water soluble

Other adverse effects : No known significant effect or critical hazards

Section 13. Disposal considerations

Methods of disposal

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should always comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

Regulation: UN Class

UN number : Not regulated

UN proper shipping name : Not applicable

Transport hazard class (es) : Not applicable

Packing group : Not applicable

Environmental hazard : Not applicable

Marine pollutant : Not applicable

Additional information : Not applicable

Section 15. Regulatory information

Relevant information regarding authorization
Occupational Health and Safety Act 1993 Regulation for Hazardous Chemical Substances
Relevant information regarding restrictions:
EU regulations: Regulation EC 1272/2008 [EU-GHS/CLP] and EU directives 67/548/EEC or EC 1999/45/EC
Other National regulations: National Road Traffic Act, 1996 (ACT NO. 93 of 1996).
SANS 11014:2010 – Safety data sheet for chemical products, content and order section
SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes.
National Environmental Management
Waste Act 59 of 2008.
Chemical Safety Assessment carried out – Not applicable

Section 16. Other information

Key data sources : GHS purple book version 9

: EU REACH ECHA

Notice to reader

To the best of our knowledge, the information contained herein is accurate and is based on the present state of our knowledge and does not therefore guarantee specific properties. However, neither the above-named supplier nor any of its subsidiaries assumes any liability whatsoever for any accuracy or completeness of the information contained herein.
Final determinations of suitability of any material are sole responsibility of the users, who must take responsibility for observing existing laws and regulations. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

---- END OF SAFETY DATA SHEET ----