Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 - Cyprus

Date of issue/ Date of revision : 20.02.2024

Date of previous issue : 11.11.2022

Version : 6.1



SAFETY DATA SHEET

YaraTera Krista MAG

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : YaraTera Krista MAG

EC number : 233-826-7

REACH Registration number : 01-2119491164-38 **CAS number** : 13446-18-9

Product code : PF05HK
Product type : Solid

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

Identified uses

Industrial distribution.

Industrial USE to formulate fertilisers product mixtures.

Professional formulation of fertiliser products. Professional USE as fertiliser in Greenhouse.

Professional USE as liquid fertiliser in open field.

Consumer USE of fertilisers.

Uses advised against : None identified.

1.3 Details of the supplier of the safety data sheet

Yara Hellas S.A.

Address

Street : Syngrou Avenue

Nea Smyrni

Number: 137Postal code: 17121City: AthensCountry: Greece

Telephone number : +30 210 9370355
Fax no. : +30 210 9370357
e-mail address of person : info.hellas@yara.com

responsible for this SDS

Date of issue : 20.02.2024 Page:1/15

1.4 Emergency telephone number

National advisory body/Poison Center

Name : Κέντρο Δηλητηριάσεων Κύπρου/Poison Control Center

Cyprus

Telephone number : 1401 **Hours of operation** : 24/7

Supplier

Emergency telephone number

+30 2111 983 182 (7/24)

(with hours of operation)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture.

Product definition: Mono-constituent substance

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification : Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Signal word : No signal word.

Hazard statements : Not applicable.

Precautionary statements : Not applicable.

EU Regulation (EC) No.

1907/2006 (REACH) Annex XVII

- Restrictions on the

manufacture, placing on the market and use of certain dangerous substances,

mixtures and articles

Special packaging requirements

Containers to be fitted with child-resistant fastenings

Not applicable.

Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to

PBT	Р	В	T	vPvB	νP	vB
N/A	N/A	N/A	N/A	N/A	N/A	N/A

Regulation (EC) No. 1907/2006, Annex XIII

Other hazards which do not

result in classification

: None known.

Additional information: Product forms slippery surface when combined with water.

Date of issue: 20.02.2024 Page:2/15

YaraTera Krista MAG

SECTION 3: Composition/information on ingredients

3.1 Substances : Mono-constituent substance

Product/ingredie nt name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
magnesium nitrate	REACH #: 01-2119491164-38 EC: 233-826-7 CAS: 13446-18-9	99	Not classified.	-	[1]

See Section 16 for the full text of the H statements declared above.

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type

[1] Constituent

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact : Rinse with plenty of running water. Check for and remove any

contact lenses. Get medical attention if irritation occurs.

Inhalation : If inhaled, remove to fresh air. Get medical attention if you feel

unwell.

Skin contact: Wash with soap and water. Get medical attention if irritation

develops.

Ingestion : 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. Get medical attention if adverse health

effects persist or are severe.

Protection of first-aiders : No action shall be taken involving any personal risk or without

suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact:No specific data.Inhalation:No specific data.Skin contact:No specific data.Ingestion:No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Date of issue: 20.02.2024 Page:3/15

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 No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use flooding quantities of water for extinction.

Unsuitable extinguishing media

Do NOT use chemical extinguisher or foam or attempt to

smother the fire with steam or sand.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or

mixture

No specific fire or explosion hazard.

Hazardous combustion products

Decomposition products may include the following materials: nitrogen oxides, ammonia, Avoid breathing dusts, vapors or fumes from burning materials., In case of inhalation of decomposition products in a fire, symptoms

may be delayed.

Remark Non-flammable substance.

5.3 Advice for firefighters

Special protective actions for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

For emergency responders

If specialized clothing is required to deal with the spillage, take

Date of issue: 20.02.2024 Page:4/15 note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up

Small spill

: Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

<u>6.4 Reference to other sections</u>

See Section 1 for emergency contact information.
 See Section 8 for information on appropriate personal protective equipment.
 See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Not for human or animal consumption.

: Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene

Protective measures

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. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. Keep away from: organic materials, oil and grease.

7.3 Specific end use(s)

Date of issue : 20.02.2024 Page: 5/15

Recommendations : Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Remark

Occupational exposure limits

Recommended monitoring procedures

: No exposure limit value known.

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Reference should be made to monitoring standards, such as the following:

European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy)

European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents)

European Standard EN 482 (Workplace atmospheres - General

requirements for the performance of procedures for the

measurement of chemical agents)

Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
magnesium nitrate	PNEC	Sewage Treatment Plant	18 mg/l	Assessment Factors

8.2 Exposure controls

Appropriate engineering controls

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

Individual protection measures

Hygiene measures

: A washing facility or water for eye and skin cleaning purposes should be present. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reusing.

Date of issue : 20.02.2024 Page:6/15

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, gases or dusts.

Skin protection Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. For general applications, we recommend gloves with a thickness typically greater than 0.35 mm. It should be emphasized that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material.

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

: In case of inadequate ventilation wear respiratory

protection.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Personal protective equipment

(Pictograms)



SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Solid (Crystalline)

Color: White.,Odor: Odorless.Melting point/freezing point: 95 °C

Initial boiling point and boiling

: Not applicable.

range

Flammability : Non-flammable.

Lower and upper explosion : Lower: Not applicable.

Date of issue : 20.02.2024 Page:7/15

limit Upper: Not applicable.

Flash point : Not applicable.

Auto-ignition temperature : Not applicable.

Decomposition temperature : Not applicable.

pH : 5 - 7,5

Viscosity : Kinematic: Not applicable.

Solubility(ies) : Easily soluble in the following materials:

cold water

Water solubility : > 100 g/l @ 20 °C

Partition coefficient: n-

octanol/water

: Not applicable.

Vapor pressure : < 0,0000001 hPa @ 20 °C

Relative vapour density : Not applicable.

Bulk density : 1.460 kg/m3

Explosive properties : Non-explosive.

Oxidizing properties : None

Particle characteristics

Median particle size : 0,3 - 0,8 mm

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this

product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous

reactions

Under normal conditions of storage and use, hazardous

reactions will not occur.

10.4 Conditions to avoid : Avoid contamination by any source including metals, dust

and organic materials.

10.5 Incompatible materials : alkalis combustible materials, reducing materials, organic

materials, Acids

10.6 Hazardous

decomposition products

Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

SECTION 11: Toxicological information

Date of issue : 20.02.2024 Page:8/15

	YaraTera Krista MAG

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/ingredient name	Method	Species	Result	Exposure
magnesium nitrate				
	OECD 423	Rat	> 5.000 mg/kg	Not applicable.
	LD50 Oral			
	OECD 402	Rat	> 5.000 mg/kg	Not applicable.
	LD50 Dermal			

Conclusion/Summary : No known significant effects or critical hazards.

Acute toxicity estimates

N/A

Irritation/Corrosion

Conclusion/Summary

Skin : No known significant effects or critical hazards.

Eyes : Non-irritating.

Respiratory: No known significant effects or critical hazards.

Sensitization

Product/ingredient name	Method	Species	Result
magnesium nitrate			
	OECD 429	Mouse	Not sensitizing
	Skin		

Conclusion/Summary

Skin : Not sensitizing

Respiratory : No known significant effects or critical hazards.

Mutagenicity

Product/ingredient name	Method	Test detail	Result
magnesium nitrate			
	OECD 476	Mammalian-Animal	Negative
		In vitro	

Conclusion/Summary: No known significant effects or critical hazards.

Carcinogenicity

Conclusion/Summary : No known significant effects or critical hazards.

Reproductive toxicity

Product/ingredient name	Method	Species	Result	Exposure
magnesium nitrate				
	OECD 422 Oral	Rat	Fertility effects- Negative Developmental- Negative > 1500 mg/kg	28 days

Conclusion/Summary: No known significant effects or critical hazards.

Information on the likely : Not available.

Date of issue : 20.02.2024 Page:9/15

routes of exposure

Potential acute health effects

Inhalation : Exposure to decomposition products may cause a health

hazard. Serious effects may be delayed following

exposure.

Ingestion: No known significant effects or critical hazards.

Skin contact: No known significant effects or critical hazards.

Eye contact : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:No specific data.Ingestion:No specific data.Skin contact:No specific data.Eye contact:No specific data.

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

Short term exposure

Potential immediate effects: No known significant effects or critical hazards.

Potential delayed effects : None identified.

Long term exposure

Potential immediate effects: No known significant effects or critical hazards.

Potential delayed effects : None identified.

Potential chronic health effects

Product/ingredient	Method	Species	Result	Exposure
name				
magnesium nitrate				
	OECD 422 Sub-acute NOAEL Oral	Rat	> 1.500 mg/kg	28 days

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

Effects on or via lactation : No known significant effects or critical hazards.

Other effects : No known significant effects or critical hazards.

Toxicokinetics

Absorption : Rapidly absorbed.

Distribution :

Enters the systemic circulation without passing through

liver tissues.

Date of issue : 20.02.2024 Page:10/15

Metabolism: Metabolized to the following:

NO3-Mg2+

Elimination : Excreted via the urine.

The chemical and its metabolites are fully excreted and do

not accumulate within the body.

11.2. Information on other hazards

11.2.1 Endocrine disrupting

Not available.

properties

11.2.2 Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredien	Method	Species	Result	Exposure
t name				
magnesium nitrate				
	OECD 203	Fish	> 100 mg/l	96 h
	Acute LC50		_	
	Fresh water			
	Acute EC50	Daphnia	490 mg/l	48 h
	Fresh water			

Conclusion/Summary: No known significant effects or critical hazards.

12.2 Persistence and degradability

Conclusion/Summary : Readily biodegradable in plants and soils.

12.3 Bioaccumulative potential

Conclusion/Summary: No known significant effects or critical hazards.

12.4 Mobility in soil

Soil/water partition coefficient

(KOC)

Not available.

Mobility : This product may move with surface or groundwater flows

because its water solubility is: high

12.5 Results of PBT and vPvB assessment

Product/ingredient	PBT	Р	В	T	vPvB	νP	vB
name							
magnesium nitrate	N/A	N/A	N/A	N/A	N/A	N/A	N/A

12.6 Endocrine disrupting properties : Not available.

12.7 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

Date of issue: 20.02.2024 Page:11/15

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times 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.

Hazardous waste

: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

European waste catalogue (EWC)

Waste code		Waste designation
	06 10 99	wastes not otherwise specified

Packaging

Methods of disposal

: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. Empty the bag by shaking to remove as much as possible of its contents. Empty bags may be disposed of as non-hazardous material or returned for recycling.

Special precautions

: This material and its container must be disposed of in a safe way.

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

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	Not applicable.	Not applicable.	Not applicable.	Not applicable.
14.3 Transport hazard class(es)	Not applicable.	Not applicable.	Not applicable.	Not applicable.
14.4 Packing group	Not applicable.	Not applicable.	Not applicable.	Not applicable.

Date of issue: 20.02.2024 Page:12/15

14.5.	No.	No.	No.	No.
Environmental				
hazards				

14.6 Special precautions for

<u>user</u>

Transport within user's premises: Ensure that persons transporting the product know what to do in the event of

an accident or spillage.

14.7 Maritime transport in bulk

according to IMO instruments

Proper shipping name : Not listed.

Remarks Solid bulk cargoes

Harmful to the marine environment with regard to MARPOL Annex V: No

SECTION 15: Regulatory information

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

Not applicable.

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

EU Regulation (EC) No.

1907/2006 (REACH) Annex XVII

- Restrictions on the

manufacture, placing on the

market and use of certain

dangerous substances,

mixtures and articles

Other EU regulations

Ozone depleting substances (1005/2009/EU)

None of the components are listed.

Prior Informed Consent (PIC) (649/2012/EU)

None of the components are listed.

Persistent Organic Pollutants

None of the components are listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

Other regulations This product is regulated by Regulation (EU) 2019/1148:

> all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national

contact point.

National regulations

Biocidal products regulation Not applicable.

Date of issue: 20.02.2024 Page:13/15

YaraTera Krista MAG

Notes : To our knowledge no other country or state specific

regulations are applicable.

15.2 Chemical Safety

Assessment

Complete.

SECTION 16: Other information

Abbreviations and acronyms : ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation

[Regulation (EC) No. 1272/2008]

DNEL = Derived No Effect Level

DMEL = Derived Minimal Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

PBT = Persistent, Bioaccumulative and Toxic vPvB = Very Persistent and Very Bioaccumulative

bw = Body weight

Key data sources : EU REACH ECHA/IUCLID5 CSR.

National Institute for Occupational Safety and Health, U.S. Dept. of Health, Education, and Welfare, Reports and Memoranda Registry of Toxic Effects of Chemical

Substances.

Sphera Solutions Inc., 4777 Levy Street, St Laurent,

Quebec HAR 2P9, Canada.

Regulation (EC) No 1272/2008 Annex VI.

<u>Procedure used to derive the classification according to Regulation (EC) No. 1272/2008</u> [CLP/GHS]

Not classified.

Full text of abbreviated H statements

Not applicable.

Full text of classifications [CLP/GHS]

Not applicable.

Revision comments : Supplier's details

Date of printing: 06.11.2024Date of issue/ Date of revision: 20.02.2024Date of previous issue: 11.11.2022

Version : 6.1

Prepared by : Product Stewardship and Compliance (PSC).

| Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information provided in this Safety Data Sheet is accurate as at the date of its issue. The information it contains is being given for safety guidance purposes and relates only to the specific material and uses described in it. This

Date of issue: 20.02.2024 Page:14/15

YaraTera Krista MAG

information does not necessarily apply to that material when combined with other material(s) or when used otherwise than as described herein, since all materials may represent unknown hazards and should be used with caution. Final determination of the suitability of any material is the sole responsibility of the user.

Date of issue : 20.02.2024 Page:15/15