Conforms: GHS (rev 4) (2011)

The Hazardous Substances and New Organisms (HSNO) Act 1996 and Amendments - New Zealand

Date of issue/ Date of revision : 11.04.2019
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Version : 1.2



SAFETY DATA SHEET

KRISTA MgS

Section 1. Identification

Product name : KRISTA MgS
Product type : solid (Crystalline)

Product code : PF05IK

<u>Uses</u>

Area of application : Professional applications

Material uses : Fertilizers.

Supplier

Supplier's details : Yara Fertilizers (New Zealand) Limited

<u>Address</u>

Street : 43 Plassey Street

Postal code : 4130

City : Havelock North
Country : New Zealand

P.O. Box Address

P.O. Box : 8746
Postal code : 4157

City : Havelock North
Country : New Zealand

Telephone number : +64 6 877 6600 Fax no. : +64 6 877 6610 e-mail address of person : info.yara@xtra.co.nz

responsible for this SDS

Emergency telephone number : +64 9929 1483 (7/24)

(with hours of operation)

National advisory body/Poison Center

Name : New Zealand National Poisons Centre

Telephone number : 0800 POISON = 0800 764 766 (NZ only) / +64 3 479 7248

(outside NZ)

Hours of operation : 24h

Section 2. Hazards identification

HSNO Classification : Not classified.

GHS label elements

Signal word : No signal word.

Hazard statements : Not applicable.

Precautionary statements

General : Not applicable.

Other hazards which do not result in classification

None.

Section 3. Composition/information on ingredients

Substance/mixture : Substance

CAS number/other identifiers

CAS number : 10034-99-8

Ingredient name	CAS number	
magnesium sulphate heptahydrate	10034-99-8	100

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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

Section 4. First aid measures

Description of necessary 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.

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

and water.

Ingestion : Wash out mouth with water. If material has been swallowed

and the exposed person is conscious, give small quantities of

water to drink. Get medical attention if you feel unwell.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact:No known significant effects or critical hazards.Inhalation:No known significant effects or critical hazards.Skin contact:No known significant effects or critical hazards.Ingestion:No 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 : No specific data.

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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.

Specific treatments : Not available.

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 Unsuitable extinguishing

media

Specific hazards arising from

the chemical

Hazardous thermal decomposition products

Use an extinguishing agent suitable for the surrounding fire.

None identified.

No specific fire or explosion hazard.

Avoid breathing dusts, vapors or fumes from burning materials.

In case of inhalation of decomposition products in a fire,

symptoms may be delayed.

Hazchem or Emergency Action

Code

Special protective actions for

fire-fighters

Special protective equipment for fire-fighters

Not available.

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.

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full

face-piece operated in positive pressure mode.

Remark : Non-explosive.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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).

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. Note: see Section 1 for emergency contact information and

Section 13 for waste disposal.

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Section 7. Handling and storage

Precautions for safe handling

Not for human or animal consumption.

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.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits :

None.

Appropriate engineering controls

: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

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.

Individual protection measures

Hygiene measures

: 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. A washing facility or water for eye and skin cleaning purposes should be present.

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.

Body protection

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

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should be approved by a specialist before handling this

product.

Respiratory protection: Use a properly fitted, particulate filter respirator complying with

an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and

the safe working limits of the selected respirator.

Personal protective equipment

(Pictograms)



Section 9. Physical and chemical properties

Appearance

Physical state : solid [Crystalline]

Color : White.
Odor : Odorless.

Odor threshold : Not determined. pH : 8 [Conc.: 50 g/l]

Melting/freezing point:Not determined.Boiling/condensation point:Not determined.Sublimation temperature:Not determined.Flash point:Not determined.Fire point:Not determined.Evaporation rate:Not determined.Flammability (solid, gas):Non-flammable.

Lower and upper explosive

(flammable) limits Vapor pressure

Density : 1.7 g/cm3

Relative density : Not determined.

Solubility : Easily soluble in the following materials:

cold water

Partition coefficient: n-

octanol/water

: Not determined.

Lower: Not determined.

Upper: Not determined.

Not determined.

Auto-ignition temperature : Not determined.

Decomposition temperature : Not determined.

Viscosity : Dynamic: Not determined.
Kinematic: Not determined.

Explosive properties : Non-explosive.

Oxidizing properties : None

Section 10. Stability and reactivity

Chemical stability : The product is stable.

Possibility of hazardous : Under normal conditions of storage and use, hazardous

reactions reactions will not occur.

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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 products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingre	Result	Species	Dose	Exposure	References
dient name					
magnesium sulphate heptahydrate					
	LD50 Oral	Rat	> 5,000 mg/kg	Not	IUCLID
				applicable.	
	LD50 Dermal	Rat	> 5,000 mg/kg	Not	
				applicable.	

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

Irritation/Corrosion

Conclusion/Summary

Skin : No known significant effects or critical hazards.

Eyes : No known significant effects or critical hazards.

Respiratory: No known significant effects or critical hazards.

Sensitization

Conclusion/Summary

Skin: No known significant effects or critical hazards.Respiratory: No known significant effects or critical hazards.

Mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

Specific target organ toxicity (single exposure)

No known significant effects or critical hazards.

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Specific target organ toxicity (repeated exposure)

Aspiration hazard

No known significant effects or critical hazards.

Information on the likely

routes of exposure

Not available.

Potential acute health effects

Eye contact:No known significant effects or critical hazards.Inhalation:No known significant effects or critical hazards.Skin contact:No known significant effects or critical hazards.Ingestion:No known significant effects or critical hazards.

Symptoms related to the 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

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

Developmental effects: 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.

Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

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Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient	Result	Species	Exposure	References
name				
magnesium sulphate heptahydrate				
	Acute EC50 > 100 mg/l Fresh water	Daphnia	48 h	CSR

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

Persistence/degradability

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

Bioaccumulative potential

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

Mobility in soil

Soil/water partition coefficient (KOC)

Not available.

Mobility : Not available.

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

Section 13. Disposal considerations

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. 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. 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

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Regulation: UN Class	
14.1 UN number	Not regulated.
14.2 UN proper shipping name	Not applicable.
14.3 Transport hazard class(es)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	No.
Additional information	
Environmental hazards	: No.

Regulation: IMDG	
14.1 UN number	Not regulated.
14.2 UN proper shipping name	Not applicable.
14.3 Transport hazard class(es)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	No.
Additional information	
Marine pollutant	: No.

Regulation: IATA	
14.1 UN number	Not regulated.
14.2 UN proper shipping name	Not applicable.
14.3 Transport hazard class(es)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	No.
Additional information <u>Marine pollutant</u>	: No.

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.

IMSBC

Bulk cargo shipping name : FERTILIZERS WITHOUT NITRATES

Class : Not applicable.

Group : C

Marpol V : Non-HME

Transport in bulk according to

Annex II of MARPOL and the

IBC Code

Not applicable.

Section 15. Regulatory information

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HSNO Approval Number : HSNO Group Standard : HSNO Classification :

Not applicable.Not applicable.Not applicable.

Country information

SCHEDULE 1 (CONDITIONS OF GROUP STANDARD) of the Fertilisers (Subsidiary Hazard) Group Standard 2006. Any location at which a substance is manufactured or stored in quantities that exceed those set out in the Standards' Tables 3, 4, 5, 6 and 7 must comply with the corresponding conditions as set out in the Standards' clauses 6, 7 and 8.

Inventory list

Philippines inventory (PICCS): All components are listed or exempted.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

Korea inventory: All components are listed or exempted. **Japan inventory:** All components are listed or exempted.

China inventory (IECSC): All components are listed or exempted.

Australia inventory (AICS): All components are listed or exempted.

Canada inventory: All components are listed or exempted.

Taiwan Chemical Substances Inventory (TCSI): All components are listed or exempted. Taiwan Chemical Substances Inventory (TCSI): All components are listed or exempted.

United States inventory (TSCA 8b): All components are listed or exempted. **EC INVENTORY (EINECS/ELINCS):** All components are listed or exempted.

Canada: All components are listed or exempted.

Section 16. Other information

Key to abbreviations

ADNR/ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

bw = Body weight

GHS = Globally Harmonized System of Classification and Labelling of

Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

NOHSC - National Occupational Health and Safety Commission

RID = The Regulations concerning the International Carriage of Dangerous

Goods by Rail

SUSMP - Standard Uniform Schedule of Medicine and Poisons

UN = United Nations

Key data sources

: EU REACH 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.

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HSNO Chemical Classification and Information database (CCID), New Zealand Inventory of Chemicals (NZloC),

History

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Prepared by : Yara Chemical Compliance (YCC).

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. 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.

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