Date of issue/ Date of revision: 14.03.2023Date of previous issue: 22.02.2023Version: 3.0



SAFETY DATA SHEET

YaraTera CALCINIT

Section 1. Identification

Product name : YaraTera CALCINIT Product type : Solid (granulates)

Product code : PA34OG

<u>Uses</u>

Area of application : Professional applications

Material uses : Fertilizers.

Supplier

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

<u>Address</u>

Street : 4/211 Heretaunga Street East

Postal code : 4122
City : Hastings
Country : New Zealand

P.O. Box Address

P.O. Box : 8746
Postal code : 4157
City : Hastings
Country : New Zealand

Telephone number : +64 6 877 6600

e-mail address of person : nz.enquiries@yara.com

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

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HSNO Classification ACUTE TOXICITY (oral) - Category 4 SERIOUS EYE DAMAGE - Category 1

GHS label elements

Hazard pictograms





Signal word Danger

Hazard statements H302 Harmful if swallowed.

> H318 Causes serious eye damage.

Precautionary statements

Prevention P280 Wear protective gloves and eye protection.

> P270 Do not eat, drink or smoke when using this

> > product.

P264-a Wash hands thoroughly after handling.

Response P305 IF IN EYES:

> P351 Rinse cautiously with water for several

> > minutes.

P338 Remove contact lenses, if present and easy

to do. Continue rinsing.

P310 Immediately call a POISON CENTER or

doctor/physician.

P301 IF SWALLOWED:

P312 Call a POISON CENTER or

doctor/physician if you feel unwell.

P330 Rinse mouth.

Other hazards which do not result in classification

None known.

Additional information Product forms slippery surface when combined with water.

Section 3. Composition/information on ingredients

Substance/mixture Substance

CAS number/other identifiers

Nitric acid, ammonium calcium salt Other means of identification

CAS number 15245-12-2 **EC** number 239-289-5

Ingredient name	% (w/w)	CAS number
Nitric acid, ammonium calcium salt	100	15245-12-2

Date of issue: 14.03.2023 Page:2/13 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 : Immediately flush eyes with running water for at least 15

minutes, keeping eyelids open. Check for and remove any contact lenses. Get medical attention immediately.

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

immediately. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained

breathing apparatus.

Skin contact : Gently wash with plenty of soap and water. Do not rub affected

area. 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 you feel unwell.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : May give off gas, vapor or dust that is very irritating or

corrosive to the respiratory system. Exposure to

decomposition products may cause a health hazard. Serious

effects may be delayed following exposure.

Skin contact: No known significant effects or critical hazards.

Ingestion: Harmful if swallowed. May cause burns to mouth, throat and

stomach.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following: pain, watering,

redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following: irritation, redness **Ingestion** : Adverse symptoms may include the following: stomach pains

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 : No specific treatment.

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

suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Wash contaminated clothing thoroughly

with water before removing it, or wear gloves.

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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 flooding quantities of water for extinction.

: Do NOT use chemical extinguisher or foam or attempt to

smother the fire with steam or sand. No specific fire or explosion hazard.

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.

Hazchem or Emergency Action Code

Remark

Special protective actions for

fire-fighters

Special protective equipment for fire-fighters

Non-flammable substance.

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

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 note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill : Move containers from spill area. Approach release from

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upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, 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.

Section 7. Handling and storage

Precautions for safe handling

Not for human or animal consumption.

Precautions for safe handling

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not ingest. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. 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. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator.

Protective measures

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

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

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.

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Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None.

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants 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

: 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.

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.

Recommended: Tightly-fitting goggles, Europe:, CEN: EN166,

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.

> 8 hours (breakthrough time): Viton®, neoprene

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

 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.

Recommended

Filter P2 Europe: EN 143

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Personal protective equipment

(Pictograms)







Section 9. Physical and chemical properties and safety characteristics

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

Appearance

Physical state : Solid [granulates]

Color : White.,
Odor : Odorless.

pH : 5 - 7 [Conc. (% w/w): 50 g/l]

Melting point/freezing point : 90 - 100 °C (194 - 212 °F)

Boiling point, initial boiling point, and boiling range

Not applicable.

Flash point : Not applicable.

Flammability : Non-flammable.
Lower and upper explosion : Lower: Not applicable.

limit/flammability limit Upper: Not applicable.

Vapor pressure: Not applicable.Relative vapor density: Not applicable.

Bulk density : 1,050 - 1,150 kg/m3

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

cold water

Solubility in water : > 1,000 g/l

Partition coefficient: n-

octanol/water

Not applicable.

Auto-ignition temperature : Not applicable. **Decomposition temperature** : Not applicable.

Viscosity : Kinematic: Not applicable.

Explosive properties : Non-explosive. **Oxidizing properties** : Non-oxidizer.

Particle characteristics

Median particle size : 3 mm

Section 10. Stability and reactivity

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

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product or its ingredients.

Chemical stability : The product is stable.

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 : alkalis, combustible materials, reducing materials, organic

materials, Acids

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/ingredient	Method	Species	Result	Exposure
name				
Nitric acid, ammonium o	calcium salt			
	OECD 423	Rat	500 mg/kg	Not applicable.
	LD50 Oral			
	OECD 402	Rat	2,000 mg/kg	Not applicable.
	LD50 Dermal			

Conclusion/Summary : Harmful if swallowed.

Irritation/Corrosion

Product/ingredient	Method	Species	Result	Exposure	
name					
Nitric acid, ammonium calcium salt					
	OECD 405 Eyes	Rabbit	Damage	24 - 72 h	

Conclusion/Summary

Skin : No known significant effects or critical hazards.

Eyes : Causes serious eye damage.

Respiratory: No known significant effects or critical hazards.

Sensitization

Conclusion/Summary

Skin : Not sensitizing Respiratory : Not determined.

Mutagenicity

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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.

Specific target organ toxicity (repeated exposure)

No known significant effects or critical hazards.

Aspiration hazard

No known significant effects or critical hazards.

Information on the likely

routes of exposure

Not available.

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : May give off gas, vapor or dust that is very irritating or

corrosive to the respiratory system. Exposure to

decomposition products may cause a health hazard. Serious

effects may be delayed following exposure.

Skin contact : No known significant effects or critical hazards.

Ingestion : Harmful if swallowed. May cause burns to mouth, throat and

stomach.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following: pain, watering,

redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following: irritation,

redness

Ingestion : Adverse symptoms may include the following: stomach pains

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

Product/ingredient name	Method	Species	Result	Exposure
Nitric acid, ammonium calcium salt				
	OECD 407	Rat	> 1,000 mg/kg	28 days

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Sub-acute NOAEL	
Oral	

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.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following: pain, watering,

redness

Inhalation : No specific data.

Skin contactAdverse symptoms may include the following: irritation, redness
Ingestion
Adverse symptoms may include the following: stomach pains

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral	Dermal	Inhalation (gases)	Inhalation (vapors)	Inhalation (dusts and mists)
YaraTera CALCINIT	500 mg/kg	N/A	N/A	N/A	N/A
Nitric acid, ammonium calcium salt	500 mg/kg	N/A	N/A	N/A	N/A

Section 12. Ecological information

Toxicity

TOXIOILY				•
Product/ingredien	Method	Species	Result	Exposure
t name				
Nitric acid, ammoniur	m calcium salt			
	Acute LC50	Fish	447 mg/l	48 h
	Fresh water			
	OECD 202	Daphnia	> 100 mg/l	48 h
	Acute EC50			
	Fresh water			
	OECD 201	Algae	> 100 mg/l	72 h
	Acute LC50			
	Fresh water			
	OECD 209	Activated sludge	> 1,000 mg/l	3 h
	Acute EC50			
	Activated sludge			

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

Persistence/degradability

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Conclusion/Summary Readily biodegradable in plants and soils.

Bioaccumulative potential

Conclusion/Summary No known significant effects or critical hazards.

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

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. 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

	UN	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	Not applicable.	Not applicable.	Not applicable.
Transport hazard class(es)	Not applicable.	Not applicable.	Not applicable.
Packing group	Not applicable.	Not applicable.	Not applicable.
Environmental hazards	No.	No.	No.

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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.

Transport in bulk according to IMO instruments

Proper shipping name Remarks

CALCIUM NITRATE FERTILIZERSolid bulk cargoes

Harmful to the marine environment with regard to MARPOL Annex V: No Material is hazardous only in bulk according to the IMSBC:

No

IMSBC shipping group: C

Section 15. Regulatory information

HSNO Approval Number HSNO Group Standard HSNO Classification

HSR002571.

Fertilisers (Subsidiary Hazard) Fire Fighting Chemicals

 ACUTE TOXICITY (oral) - Category 4 SERIOUS EYE DAMAGE - Category 1

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

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

Korea 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 active or exempted. EC INVENTORY (EINECS/ELINCS): All components are listed or exempted.

Canada: At least one component is not listed in DSL but all such components are listed in NDSL.

Turkey: All components are listed or exempted. **Viet Nam:** All components are listed or exempted.

Section 16. Other information

Key to abbreviations

: 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

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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) RID = The Regulations concerning the International Carriage of Dangerous

Goods by Rail

SUSMP - Standard Uniform Schedule of Medicine and Poisons

SGG = Segregation Group UN = United Nations

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

History

Date of printing : 20.03.2023 Date of issue/Date of revision : 14.03.2023 Date of previous issue : 22.02.2023

Revision comments : The safety data sheet has been revised according to

Hazardous Substances (Safety Data Sheets) Notice 2017

Version : 3.0

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 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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