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
Date of previous issue : 14.02.2014

Version : 1.3



SAFETY DATA SHEET

YaraLiva CALCINIT

Section 1. Identification

Product name : YaraLiva CALCINIT
Product type : solid (Granular solid.)

Product code : PA341G

<u>Uses</u>

Area of application : Professional applications

Material uses : Fertilizers.

Manufacturer/Distributor

Name Red Bull Powder Company

<u>Address</u>

Street : 6 Walls Road, Penrose

Postal code : 1061
City : Auckland
Country : New Zealand

Telephone number : +64 (9) 525 1181 **Fax no.** : +64 (9) 525 1182

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 6.1 - ACUTE TOXICITY (oral) - Category D

6.1 - ACUTE TOXICITY (dermal) - Category E

8.3 - CORROSIVE TO OCULAR TISSUE - Category A

GHS label elements

Hazard pictograms



Signal word Danger

Hazard statements Harmful if swallowed. H302

> May be harmful in contact with skin. H313 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.

Wash hands thoroughly after handling. P264-a

Response P305 IF IN EYES:

> P351 Rinse cautiously with water for several

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

Product forms slippery surface when combined with water.

Section 3. Composition/information on ingredients

Substance/mixture Substance

CAS number/other identifiers

Other means of identification Nitric acid, ammonium calcium salt

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

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Ingredient name	CAS number	
Nitric acid, ammonium calcium salt	15245-12-2	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: Immediately flush eyes with plenty of water for at least 15

minutes, keeping eyelids open. Get medical attention

immediately.

Inhalation : Avoid breathing dust. If inhaled, remove to fresh air.

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

develops.

Ingestion: Do not induce vomiting unless directed to do so by medical

personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a

physician immediately.

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 : May be harmful in contact with skin.

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:

pain or irritation

redness

blistering may occur

Ingestion : Adverse symptoms may include the following:

stomach pains

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

Notes to physician

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 **Protection of first-aiders** No specific treatment.

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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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.

These products are nitrogen oxides metal oxide/oxides Not available.

Hazchem or Emergency Action

Code

Remark

for fire-fighters

Non-flammable substance.

Special protective actions for fire-fighters

Special protective equipment

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.

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".

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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. Material free from contamination can be used for its original purpose.

Large spill

Move containers from spill area. Approach release from upwind. 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.

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 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. Product forms slippery surface when combined with water.

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. Separate from reducing agents and combustible materials. Store locked up. 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 acids or bases. Keep away from: organic materials, oil and grease.

Section 8. Exposure controls/personal protection

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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.

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,

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.

> 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.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Recommended Approved/certified disposable particulate dust mask.

Personal protective equipment

(Pictograms)





Section 9. Physical and chemical properties

<u>Appearance</u>

Physical state : solid [Granular solid.]

Color : White.
Odor : Odorless.
Odor threshold : Not determined.
pH : 5 - 7 [Conc.: 110 g/l]

Melting/freezing point : 400 °C

Boiling/condensation point: Not determined.Sublimation temperature: Not determined.Flash point: Not determined.Fire point: Not determined.

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Evaporation rate

Not determined. Flammability (solid, gas) Non-flammable.

Lower and upper explosive

(flammable) limits Vapor pressure

Relative density

Upper: Not determined. Not determined. 1,100 kg/m3

2.05

Lower: Not determined.

Bulk density

Solubility 100 g/l @ 20 °C(68 °F)

Easily soluble in the following materials:

cold water

Solubility in water > 100 g/I

Partition coefficient: n-

octanol/water

Not determined.

Auto-ignition temperature Not determined.

Decomposition temperature

Viscosity

Not determined.

Dynamic: Not determined. Kinematic: Not determined.

Explosive properties Non-explosive.

Oxidizing properties None

Section 10. Stability and reactivity

Reactivity No specific test data related to reactivity available for this

product or its ingredients.

Stable under recommended storage and handling conditions Chemical stability

(see Section 7).

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. Keep away from heat, sparks and flame.

Store away from direct sunlight.

Incompatible materials acids

alkalis

combustible materials reducing materials organic materials

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

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Acute toxicity

Product/ingre dient name	Result	Species	Dose	Exposure	References
Nitric acid, amm	ionium calcium sa	lt			
	LD50 Oral	Rat	500 mg/kg OECD 423	Not applicable.	IUCLID
	LD50 Dermal	Rat	2,000 - 5,000 mg/kg OECD 402	Not applicable.	

Conclusion/Summary: Harmful if swallowed. May be harmful in contact with skin.

Irritation/Corrosion

Product/ingred ient name	Result	Species	Score	Exposure	Observation	References
Nitric acid,	Eyes - Severe	Rabbit	Not	24 - 72 h	21 d	IUCLID 5
ammonium	irritant OECD		applic			
calcium salt	405		able.			

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 sensitizingRespiratory: Not determined.

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.

Specific target organ toxicity (repeated exposure)

No known significant effects or critical hazards.

Aspiration hazard

No known significant effects or critical hazards.

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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 : May be harmful in contact with skin.

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:

pain or irritation

redness

blistering may occur

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	Result	Species	Dose	Exposure	References
name					
Nitric acid, ammonium calcium salt	NOAEL Oral	Rat	> 1,000 mg/kg OECD 407	28days	IUCLID 5

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.

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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 contact : Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Ingestion: Adverse symptoms may include the following:

stomach pains

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient	Result	Species	Exposure	References
name				
Nitric acid, ammonium ca	alcium salt			
	Acute LC50 447	Fish	48 h	IUCLID 5
	mg/l Fresh water			
	Acute EC50 > 100 mg/l Fresh water OECD 202	Daphnia	48 h	IUCLID 5
	Acute LC50 > 100 mg/l Fresh water OECD 201	Algae	72 h	IUCLID 5
	Acute EC50 > 1,000 mg/l Activated sludge OECD 209	Activated sludge	3 h	IUCLID 5

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

Persistence/degradability

Conclusion/Summary : Readily biodegradable in plants and soils.

Bioaccumulative potential

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

Mobility in soil

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Soil/water partition coefficient (KOC) Mobility

: Not available.

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

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 <u>Environmental hazards</u>	: 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	

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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		
Marine pollutant	: 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

CALCIUM NITRATE FERTILIZER

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

HSNO Approval Number HSNO Group Standard HSNO Classification HSR002571.HSR002573

Fertilisers (Subsidiary Hazard)Fire Fighting Chemicals
 6.1 - ACUTE TOXICITY: oral - Category D6.1 - ACUTE TOXICITY: dermal - Category E8.3 - CORROSIVE TO

OCULAR TISSUE - Category A

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

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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.

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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