**Safety Data Sheet** 



# 1. Identification of Substance & Company

#### **Product**

Product name Headland CaNite

Product code NA
ACVM exempt
HSNO approval HSR002571,

Approval description Fertilisers (Subsidiary Hazard) Group Standard 2020

UN number NA
Proper Shipping Name NA
DG class NA
Packaging group NA
Hazchem code NA

Uses For the prevention and correction of disorders related to calcium and

micronutrient imbalance by foliar application

**Company Details** 

Company: Arxada NZ Limited Address: 13-15 Hudson Rd

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 Website:
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Emergency Telephone Number: 0800CHEMCALL (0800 243 622) International Emergency Phone: +64 4 917 9888

#### 2. Hazard Identification

# **Approval**

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002571, Fertilisers (Subsidiary Hazard) Group Standard 2020). The substance has been classified as hazardous according to the criteria in the Hazardous substances (Hazard Classification) Notice 2020.

# **GHS Classes**

# **Hazard Statements**

Acute toxicity category 4 (oral)

H302 - Harmful if swallowed.

Eye damage category 1

H318 - Causes serious eye damage.

\*STOT - System Target Organ Toxicity

# **SYMBOLS**

# **DANGER**



#### **Other Classifications**

There are no other classifications that are known to apply.

# **Precautionary Statements**

**Prevention** P102 - Keep out of reach of children.

P103 - Read label before use.

P264 - Wash hands thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P280 - Wear protective gloves/eye protection.



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P101 - If medical advice is needed, have product container or label at hand. Response

P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.

P330 - Rinse mouth.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTRE or doctor/physician.

Storage no storage statement

Disposal P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.

# 3. Composition / Information on Ingredients

Component	CAS/ Identification	Conc (%)
calcium nitrate	10124-37-5	30-60%
ingredients not contributing to GHS classes	mixture	balance

This is a commercial product whose exact ratio of components may vary slightly. Trace quantities of impurities are also likely.

#### 4. First Aid

#### **General Information**

Arxada NZ Limited has an emergency contact phone number: 0800 243 622, +64 4 917 9888

If medical advice is needed, have product container or label at hand. You should call the National Poisons Centre if you feel that you may have been harmed or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service).

Recommended first aid Ready access to running water is recommended. Accessible eyewash is recommended.

facilities

**Exposure** 

**Swallowed** IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell. Rinse

mouth. Do NOT induce vomiting. Give a glass of water to drink.

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or

doctor/physician.

Skin contact This product is non-irritating to skin. No further measures should be required.

Inhaled Generally, inhalation of fumes/vapours/dusts is unlikely to result in adverse health effects.

If coughing, dizziness or shortness of breath is experienced, remove the patient to fresh air immediately. If patient is unconscious, place in the recovery position (on the side) for

transport and contact a doctor.

# **Advice to Doctor**

Treat symptomatically

# 5. Firefighting Measures

Fire and explosion hazards: Suitable extinguishing

substances:

Unsuitable extinguishing

substances:

**Products of combustion:** 

There are no specific risks for fire/explosion for this chemical. It is non-flammable.

Carbon dioxide, extinguishing powder or water jet. Fight larger fires with water jet or alcohol

resistant foam.

Unknown.

Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water.

May form toxic mixtures in air and may accumulate in sumps, pits and other low-lying

spaces, forming potentially explosive mixtures.

Protective equipment: Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat and

eye protection.

Hazchem code: NA

#### 6. Accidental Release Measures

Containment If greater than 1000L is stored, secondary containment and emergency plans to manage

any potential spills must be in place. In all cases design storage to prevent discharge to

storm water.

**Emergency procedures** In the event of spillage alert the fire brigade to location and give brief description of hazard.

Stop the source of the leak, if safe to do so. Wear protective equipment to prevent skin, eye and respiratory exposure. Clear area of any unprotected personnel. Contain using sand, earth or vermiculite. Do not use sawdust. Prevent by whatever means possible any spillage from entering drains, sewers, or water courses. (If this occurs contact your regional

council immediately).

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Clean-up method Use absorbent (soil, sand or other inert material). Rags are not recommended for the

clean-up of spills, as they may create fire or environmental hazard. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or

waterways has occurred advise local emergency services.

Mop up and collect recoverable material into labelled containers for recycling or salvage. Disposal

Recycle containers wherever possible. This material may be suitable for approved landfill.

Dispose of only in accord with all regulations.

Wear protective equipment to prevent skin and eye contamination and the inhalation of **Precautions** 

vapours. Work up wind or increase ventilation.

## 7. Storage & Handling

Storage Avoid storage of harmful substances with food. Store out of reach of children. Containers

should be kept closed in order to minimise contamination. Keep from extreme heat and open flames. Avoid contact with incompatible substances as listed in Section 10.

Handling Keep exposure to a minimum, and minimise the quantities kept in work areas. See section

8 with regard to personal protective equipment requirements. Avoid skin and eye contact

and inhalation of vapour, mist or aerosols.

# 8. Exposure Controls / Personal Protective Equipment

## **Workplace Exposure Standards**

A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of 3mg/m³ for respirable particulates and 10mg/m³ for inhalable particulates when limits have not otherwise been established.

Workplace Ingredient **WES-TWA WES-STEL** 

**Exposure Stds** No Ingredient listed

## **Engineering Controls**

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety at Work Act (2015) and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016. Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify processes or increase ventilation.

# **Personal Protective Equipment**

General

Personal Protective Equipment (PPE) should not be used as the primary means of exposure protection, except in the event of an accident or emergency situation or where all other means of protection have proven to inadequate.

Clean PPE after use or dispose of as appropriate. Store PPE for re-use in a clean place. Regular training on the correct use of PPE should be provided. In particular the correct fitting and use of respirators and where applicable the cleaning of respirators should be undertaken.

Eyes



Protect eyes with goggles, safety glasses or full face mask. Avoid wearing contact lenses. Select eye protection in accordance with AS/NZS 1337.

Skin

If discomfort is felt (e.g., if pre-existing conditions exist, such as dermatitis, cuts or sensitive skin), gloves may be helpful. If you suffer from dermatitis type skin conditions, use gloves. Protective gloves or suitably resistant material must comply with AS 2161. Replace frequently. Gloves should be checked for tears or holes before use.

Respiratory

Respirator is not required under normal use. Ensure adequate natural ventilation. If product is being used in confined conditions, the use of a mask or respirator may be preferred.

# **WES Additional Information**

Not applicable

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# 9. Physical & Chemical Properties

Appearance yellow liquid

**Odour** characteristic odour

**Odour Threshold** no data pН 2.0-3.5 Freezing/melting point no data **Boiling Point** no data **Flashpoint** no data Flammability no data Upper & lower flammable limits no data Vapour pressure no data Vapour density no data

Solubility soluble in water Partition coefficient no data
Auto-ignition temperature no data
Decomposition temperature no data
Viscosity no data
Particle Characteristics no data

# 10. Stability & Reactivity

Specific gravity/density

tability Stable

Conditions to be avoided Containers should be kept closed in order to avoid contamination. Keep from extreme heat

and open flames.

1.48-1.51

**Incompatible groups** strong oxidisers, strong acids

Substance Specific none known

Incompatibility

Hazardous decomposition

products

may emit toxic fumes under fire conditions.

Hazardous reactions none known

# 11. Toxicological Information

# **Summary**

IF SWALLOWED: may cause irritation of the mouth and throat.

IF IN EYES: may cause permanent eye damage.

IF ON SKIN: direct contact may cause mild irritation.

IF INHALED: may experience irritation of the throat and tightness of chest.

## **Supporting Data**

Acute Oral Using LD<sub>50</sub>'s for ingredients, the Acute Toxicity Estimate (ATE) (oral) for the mixture is between 300 and 2,000 mg/kg. Data considered includes: calcium nitrate 302mg/kg (rat).

**Dermal** Using LD<sub>50</sub>'s for ingredients, the Acute Toxicity Estimate (ATE) (dermal) for the mixture is

>2,000 mg/kg.

Inhaled Using LD<sub>50</sub>'s for ingredients, the Acute Toxicity Estimate (ATE) (inhalation) for the mixture

is >5mg/L/4h.

Eye The mixture is considered to be corrosive to the eye, because some of the ingredients

(calcium nitrate) present at >3% are considered eye corrosives.

**Skin** The mixture is not considered to be a skin irritant.

**Chronic** Sensitisation No ingredient present at concentrations > 0.1% is considered a sensitizer. No ingredient present at concentrations > 0.1% is considered a mutagen.

**Carcinogenicity**No ingredient present at concentrations > 0.1% is considered a mutagen.
No ingredient present at concentrations > 0.1% is considered a carcinogen.

Reproductive / No ingredient present at concentrations > 0.1% is considered a reproductive or

**Developmental** developmental toxicant or have any effects on or via lactation.

Systemic No ingredient present at concentrations > 1% is considered a target organ toxicant.

Aggravation of None known.

existing conditions





# 12. Ecological Data

#### Summary

This substance is not considered ecotoxic towards aquatic organisms. In all cases prevent run-off to drains, sewers and waterways.

#### **Supporting Data**

Aquatic Using EC₅o's for ingredients, the estimated EC₅o for the mixture is > 100 mg/L.

Bioaccumulation No data
Degradability No data

**Soil** No evidence of soil toxicity.

Terrestrial vertebrate This mixture is considered harmful towards terrestrial vertebrates. See acute toxicity.

**Terrestrial invertebrate** No evidence of ecotoxicity towards terrestrial invertebrates.

**Biocidal** no data

#### 13. Disposal Considerations

**Restrictions**There are no product-specific restrictions, however, local council and resource consent

conditions may apply, including requirements of trade waste consents.

Disposal method Disposal of this product must comply with the Hazardous Substances (Disposal) Notice

2017 and the requirements of the Resource Management Act for which approval should be sought from the Regional Authority. The substance must be treated and therefore

rendered non-hazardous before discharge to the environment.

Contaminated packaging Disposal of contaminated packaging must comply with the Hazardous Substances

(Disposal) Notice 2017 clause 12. Ensure that the package is rendered incapable of containing any substance and is disposed in a manner that is consistent with the requirements of the substance it contained and the material of the package. If possible

reuse or recycle packaging.

# 14. Transport Information

Land Transport Rule: Dangerous Goods 2005 - NZS 5433:2007
There are no specific restrictions for this product (not a dangerous good).

UN number: NA Proper shipping name: NA Class(es) NA Packing group: NA Precautions: NA Hazchem code: NA

# 15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002571, Fertilisers (Subsidiary Hazard) Group Standard 2020. All ingredients appear on the New Zealand Inventory of Chemicals NZIoC.

#### **Specific Controls**

Key workplace requirements are:

SDS To be available within 10 minutes in workplaces storing any quantity.

Inventory An inventory of all hazardous substances must be prepared and maintained.

Packaging All hazardous substances should be appropriately packaged including substa

All hazardous substances should be appropriately packaged including substances that have been decanted, transferred or manufactured for own use or have been

supplied

Labelling Must comply with the Hazardous Substances (Labelling) Notice 2017.

Emergency plan Required if > 1000L is stored.

Certified handler Not required.
Tracking Not required.

Bunding & secondary containment Required if > 1000L is stored. Signage Required if > 1000L is stored.

Location compliance certificate Not required. Flammable zone Not required. Fire extinguisher Not required.

Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.





## **Other Legislation**

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health and Safety at Work Act 2015 and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, local Council Rules and Regional Council Plans.

#### 16. Other Information

#### **Abbreviations**

Approval Code Approval HSR002571, Fertilisers (Subsidiary Hazard) Group Standard 2020 Controls,

EPA. www.epa.govt.nz

CAS Number Unique Chemical Abstracts Service Registry Number

ECotoxic Concentration 50% - concentration in water which is fatal to 50% of a test

population (e.g. daphnia, fish species)

**EPA** Environmental Protection Authority (New Zealand)

Globally Harmonised System of Classification and Labelling of Chemicals, 7th revised

edition, 2017, published by the United Nations.

HAZCHEM Code Emergency action code of numbers and letters that provide information to emergency

services, especially fire fighters

**HSNO** Hazardous Substances and New Organisms (Act and Regulations)

IARC International Agency for Research on Cancer

**LEL** Lower Explosive Limit

**LD**<sub>50</sub> Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).

**LC**<sub>50</sub> Lethal Concentration 50% − concentration in air which is fatal to 50% of a test population

(usually rats)

NZIoC New Zealand Inventory of Chemicals

STEL Short Term Exposure Limit - The maximum airborne concentration of a chemical or

biological agent to which a worker may be exposed in any 15 minute period, provided the

TWA is not exceeded

**STOT RE**System Target Organ Toxicity – Repeated Exposure
STOT SE
System Target Organ Toxicity – Single Exposure

TWA Time Weighted Average – generally referred to WES averaged over typical work day

(usually 8 hours)

UELUpper Explosive LimitUN NumberUnited Nations Number

WES Workplace Exposure Standard - The airborne concentration of a biological or chemical

agent to which a worker may be exposed during work hours (usually 8 hours, 5 days a week). The WES relates to exposure that has been measured by personal monitoring using

procedures that gather air samples in the worker's breathing zone.

**References** 

Unless otherwise stated comes from the EPA HSNO chemical classification information

database (CCID).

Controls EPA notices, www.epa.govt.nz, Health and Safety at Work (Hazardous Substances)

Regulations 2017, www.legislation.govt.nz

WES The latest NZ Workplace Exposure Standards, published by WorkSafe NZ and available

on their web site - www.worksafe.govt.nz.

Other References: Suppliers SDS

**Review** 

DateReason for reviewNovember 2022Not applicable - New SDS

#### **Disclaimer**

This SDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely GHS 7 classifications for this SDS have been estimated based on general information from the supplier (e.g., hazard, toxicological). This SDS is copyright Datachem and must not be copied, edited or used for other than intended purpose. To contact the SDS author, email info@datachem.co.nz or phone: +64 21 1040951.

