



Identification of Substance & Company

Product

Product name µInoculate pp9
Other names no other names

Product codes NA

HSNO approval non hazardous Approval description non hazardous

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

Uses Plant growth and health stimulator, soil health stimulator

Company Details

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2. Hazard Identification

Approval in New Zealand

This product is not considered hazardous under the Hazardous Substances and New Organisms Act (HSNO).

Classes Hazard Statements

none

SYMBOLS

none

Australian GHS Classification

This product is not considered hazardous under GHS.

Precautionary Statements

none

3. Composition / Information on Ingredients

Component	CAS/ Identification	Conc (%)
Pseudomonas putida Ps1 ferment	Not assigned	>10 ¹² CFU/L
Ingredients not contributing to HSNO classes	Mixture	Balance

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

4. First Aid

General Information

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.

facilities

Exposure

Swallowed Do NOT induce vomiting. Give a glass of water to drink. Contact a doctor if concerned. Eye contact If product gets in eyes, wash material from them with running water for several minutes.

If symptoms persist, seek medical advice.

Skin contact Flush immediately with large amounts of water. Remove all contaminated clothing.

Contact a doctor if experiencing symptoms

InhaledGenerally, inhalation of vapours/mists 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



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5. Firefighting Measures

Fire and explosion hazards: There are no specific risks for fire/explosion for this chemical. It is not classed as

flammable.

Suitable extinguishing

substances:

Carbon dioxide, extinguishing powder, foam, fog sprays, water jets.

Unsuitable extinguishing

substances:

Unknown.

Products of combustion:

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:

No special measures are required.

Hazchem code:

NA

6. Accidental Release Measures

Containment There is no current legal requirement for containment of this product.

Emergency procedures Generally, the containers size will limit a large spill from occurring.

If a significant spill occurs:

Stop leak if safe or necessary. Isolate area. Collect spill, see below. Transfer to container for disposal. Dispose of according to guidelines below (Section 13).

Clean-up method This product is not considered flammable or ecotoxic. Small spills do not require any

special clean up method. Larger spills (e.g., greater than 10kg) should be mopped up

and collected.

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

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

landfill. Dispose of only in accord with all regulations.

Precautions No special protective clothing is normally necessary.

7. Storage & Handling

Storage Avoid storage of harmful substances with food. Store the product at 4°C. 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. Keep exposure to a minimum, and minimise the quantities kept in work areas. See

section 8 with regard to personal protective equipment requirements.

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.

NZ Workplace Ingredient WES-TWA* WES-STEL

Exposure Stds No ingredients listed

Exposure Standards - Australia

Australian Exposure Standards

Handling

No ingredients 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

Eyes Protective eyewear is not normally necessary when using this product. However, it

always prudent to use protective eyewear if splashes are likely.

Skin Protective gloves and clothing are not normally necessary. However, it is prudent to

wear gloves when handling chemicals in bulk or for an extended period of time. 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.

Respiratory





WES Additional Information

Not applicable

9. Physical & Chemical Properties

Appearance Light yellow opague liquid Odour mild characteristic odour

pH 6.5-7.5 Vapour pressure no data Viscosity no data Boiling point no data

Volatile materials liquid at room temperature

Freezing / melting point no data

Solubility
Specific gravity / density
Flash point
Danger of explosion
Auto-ignition temperature
Upper & lower flammable limits
Corrosiveness
Soluble in water
1.0g/cm³
no data
no data
no data

10. Stability & Reactivity

Stability Stable

Conditions to be avoided Containers should be kept closed in order to avoid contamination. Store product at 4°C.

Keep from extreme heat and open flames.

Incompatible groups Strong acids and bases, oxidisers.

Substance Specific none known

Incompatibility

Hazardous decomposition

products

Hazardous reactions none known

11. Toxicological Information

Summary

IF SWALLOWED: no known effect.

IF IN EYES: not irritating.

IF ON SKIN: does not result in skin irritation.

IF INHALED: no known effects. Substance has a very low vapour pressure.

CHRONIC TOXICITY: no known effects.

Supporting Data

Acute Oral Using LD₅₀'s for ingredients, the estimated LD₅₀ (oral, rat) for the mixture is >5,000

mg/kg.

Dermal InhaledNo evidence of dermal toxicity.
No evidence of inhalation toxicity.

Oxides of carbon

Eye The mixture is not considered to be an eye irritant.

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

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

MutagenicityNo ingredient present at concentrations > 0.1% is considered a mutagen.CarcinogenicityNo 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 mixture is not considered ecotoxic.

Supporting Data

Aquatic Using EC₅₀'s for ingredients, the estimated EC₅₀ for the mixture is > 100 mg/L.

Bioaccumulation No evidence

Degradability Not considered degradable, but will biodegrade. Log Kow 3.9-6 (estimates).

Soil No evidence of soil toxicity.

Terrestrial vertebrate Not considered ecotoxic towards terrestrial vertebrates (see acute toxicity)

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Terrestrial invertebrate

Biocidal

Restrictions

Environmental effect levels

No evidence of toxicity towards terrestrial invertebrates.

No EELs are available for this mixture or ingredients

no data

Disposal Considerations

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.

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

> (Disposal) Notice 2017 clause 12. Ensure that the package is renedered 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.

Transport Information

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

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

Regulatory Information

NZ regulations

This substance is not considered to be hazardous under HSNO.

Specific Controls

Key requirements are:

SDS Not required (non hazardous), but best practice to have the SDS available Inventory An inventory of all hazardous substances must be prepared and maintain

Packaging All hazardous substances should be appropriately packaged including sul

manufactured for own use or have been supplied

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

Emergency plan Not required. Certified handler Not required. Tracking Not required. Bunding & secondary containment Not required. Signage Not required. 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.

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.

Australian regulations

Standard for the Uniform Scheduling

of Drugs and Poisons (SUSDP) Applicable prohibitions and

notifications/licensing requirements **Agricultural and Veterinary**

Chemicals Act

Listing in the Australian Inventory of

Chemical Substances (AICS) Additional information

Not scheduled

Not listed

Not listed

Not applicable

Not applicable



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16. Other Information

Abbreviations
Approval Code
Not applicable – non hazardous

AICS

Australian Inventory of Chemical Substances

CAS Number

Unique Chemical Abstracts Service Registry Number

Ceiling Exposure Value: The maximum airborne concentration of a biological or chemical

agent to which a worker may be exposed at any time.

Controls MatrixList of default controls linking regulation numbers to Matrix code (e.g. T1, I16). **EC**₅₀
Ecotoxic Concentration 50% − concentration in water which is fatal to 50% of a test

population (e.g. daphnia, fish species)

Exposure Standard - The airborne concentration of a biological or chemical agent to

which a worker may be exposed in a work day.

EPA Environmental Protection Authority (New Zealand)

GHS Globally Harmonised System of Classification and Labelling of Chemicals

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 Let/UEL Lower Explosive Limit/ Upper Explosive Limit

LD₅₀ Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).

Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population

(usually rats)

MSDS (SDS)

Material Safety Data Sheet (or Safety Data Sheet)

NICNAS National Industrial Chemicals Notification and Assessment Scheme

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

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

(usually 8 hours)

UN Number United 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.

ES Workplace Exposure standards for airborne contaminants – Safework Australia.

Other References: Suppliers SDS, EU ECHA, ingredients SDS's, ChemIDplus

Review

DateReason for reviewJune 2019Not 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 HSNO 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 9 940 30 80.

