



1. Identification of Substance & Company

Product

Product name Speartek®

ACVM Approval: P005413 **ACVM**

HSNO approval HSR000664

Approval description Emulsifiable concentrate containing 250 g/litre metalaxyl. Also contains

methyl pyrrolidone

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

Uses FUNGICIDE - Systemic fungicide to control phytophthora rot in asparagus,

late blight in potatoes, late blight and botrytis in outdoor tomatoes and downy

mildew in onions and brassica seedbeds

Company Details

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

Bell Block New Plymouth New Zealand

+64 6 755 9234 Telephone: Fax: +64 6 755 1174 Website: www.arxada.co.nz

Email: office-newplymouth@arxada.com

> 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 HSR000664, Emulsifiable concentrate containing 250 g/litre metalaxyl. Also contains methyl pyrrolidone). The substance has been classified as hazardous according to the criteria in the Hazardous substances (Hazard Classification) Notice 2020.

H315 - Causes skin irritation.

GHS Classes

Hazard Statements

Skin irritant category 2 Eye irritant category 2 Skin sensitiser category 1 Reproductive toxicity category 1 STOT* repeated exposure category 1

H319 - Causes serious eye irritation. H317 - May cause an allergic skin reaction. H360 - May damage fertility or the unborn child.

Chronic aquatic category 3

H372 - Causes damage to organs through prolonged or repeated exposure.

H412 - Harmful to aquatic life with long lasting effects.

*STOT - System Target Organ Toxicity

SYMBOLS

DANGER





Other Classifications

There are no other classifications that are known to apply.

This mixture contains Metalaxyl. May produce an allergic reaction.





Precautionary Statements

Prevention P103 - Read label before use.

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe vapours/spray.

P264 - Wash hands thoroughly after handling.

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

P272 - Contaminated work clothing should not be allowed out of the workplace.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

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

if present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention. P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

P308+P313 - IF exposed or concerned: Get medical advice/ attention.

Storage P405 - Store locked up.

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

3. Composition / Information on Ingredients

Component	CAS/ Identification	Conc (%)
Metalaxyl	57837-19-1	24.7% (15-40%)
NMP (N-methyl pyrrolidone)	872-50-4	<45%
Petroleum naphtha, heavy aromatic	64742-94-5	10.6%
DBE (Dibasic Esters)	mixture	14.3%
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

facilities

Ready access to running water is recommended. Accessible eyewash is recommended.

Exposure

Inhaled

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. If eye irritation persists: Get medical

advice/attention.

Skin contact IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get

medical advice/ attention. Take off contaminated clothing and wash before re-use.

Generally, inhalation of vapours/spray 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:

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

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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: 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. Shut off all possible sources of ignition. 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).

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.

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

vapours. Work up wind or increase ventilation.

7. Storage & Handling

Storage Store locked up. Store in original container only. Avoid storage of harmful substances with

food. Store out of reach of children. Store away from foodstuffs. 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 Read label before use. 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.

NZ Workplace Exposure Stds

Metalaxyl Metalaxyl N-methyl pyrrolidone

Mes-TWA

WES-TWA

data unavailable 25ppm, 103 mg/m³ 75ppm, 309 mg/m³

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.

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Eyes



Avoid contact with eyes. Use safety glasses and or chemical splash goggles if splashes are possible. Select eye protection in accordance with AS/NZS 1337.

Skin



Avoid repeated or prolonged skin contact. Wear overalls, rubber boots and impervious gloves. Protective gloves or suitably resistant material must comply with AS 2161. Replace frequently. Gloves should be checked for tears or holes before use. Protective clothing must comply with AS 2919, AS3765.1 or AS3765.2. PVC or rubber boots must comply with AS/NZS 2210.2 and selected and maintained in accordance with AS/NS2210.1. Remove protective clothing and wash exposed areas with soap and water prior to eating, drinking or smoking. Wash hands after handling.

Respiratory

A respirator when airborne concentrations approach the WES (section 8). Respirators must have filters appropriate to the duty and comply with AS/NZS1716 and selected, used and maintained in accordance with AS/NS 1715. Use a respirator with an organic vapour cartridge. If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order. Fit testing and clear guidelines and training for use and maintenance of PPE are necessary.

WES Additional Information

Not applicable

9. Physical & Chemical Properties

Appearance Pale golden liquid not specified Odour рΗ 3.5-6.5 (5%) Vapour pressure no data **Viscosity** no data **Boiling point** no data Volatile materials no data Freezing / melting point no data

Solubility water dispersible Specific gravity / density 1.035-1.055 (water = 1)

Flash point >61°C (PMCC)

Danger of explosion no data

Auto-ignition temperature no data

Upper & lower flammable limits no data

Corrosiveness no data

10. Stability & Reactivity

Stability Stable

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

and open flames.

Incompatible groups Strong oxidising agents. Acids. Substance Specific none known

Incompatibility
Hazardous decomposition

none known

products

none known

Hazardous reactions none

11. Toxicological Information

Summary

IF SWALLOWED: No acute effect anticipated. See chronic effects.

IF IN EYES: may cause eye irritation.

IF ON SKIN: may cause skin irritation. Sensitised individuals may experience an allergic skin reaction.

IF INHALED: Respiratory inhalation of high levels of vapour include headache, giddiness, confusion and nausea.

CHRONIC TOXICITY: N-methyl pyrrolidone may affect CNS, liver, blood.





Supporting Data

>2,000 mg/kg. Data considered includes: Metalaxyl 566mg/kg (rat), NMP (N-methyl

pyrrolidone) 3500 mg/kg (rabbit).

Dermal Using LD₅₀'s for ingredients, the Acute Toxicity Estimate (ATE) (dermal) for the mixture is

>2,000 mg/kg. Data considered includes: Metalaxyl >3100mg/kg (rat).

Inhaled Using LD₅₀'s for ingredients, the Acute Toxicity Estimate (ATE) (inhalation) for the mixture

is >5mg/L/4h.

Eye The mixture is considered to be an eye irritant, because some of the ingredients present

are considered eye irritants in more concentrated form.

Skin The mixture is considered to be a skin irritant, because some of the ingredients present

are considered skin irritants in more concentrated form.

Chronic Sensitisation The mixture is considered to be a contact sensitizer, because Metalaxyl present in greater

than 0.1% is known to be a contact sensitizer.

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

Reproductive / The mixture is considered to be a known or presumed reproductive or developmental toxicant, because at least one of the ingredients (N-methyl pyrrolidone) present in greater

than 0.1% is known or presumed to be a reproductive or developmental toxicant. There is some evidence (animal studies) that developmental effects are possible.

Systemic The mixture is considered to be a known or presumed target organ toxicant, because at

least one of the ingredients (N-methyl pyrrolidone) present in greater than 1% is known or

presumed to be a target organ toxicant. This product may affect Not applicable.

None known.

Aggravation of existing conditions

12. Ecological Data

Summary

This mixture may be harmful towards aquatic organisms with long lasting effects.

Supporting Data

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

considered includes:

Metalaxyl 18.4mg/L (96h, rainbow trout).

Bioaccumulation No data
Degradability No data

Soil No evidence of soil toxicity.

Terrestrial vertebrate See acute toxicity.

Terrestrial invertebrate No evidence of toxicity 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 methodDisposal of this product must comply with the Hazardous Substances (Disposal) Notice 2017 and the requirements of the Resource Management Act for which approval should

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. Dispose of product only by using according to the level or of an environment lendfill.

using according to the label, or at an approved landfill

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. Triple rinse empty container and add rinsate to the spray tank. If recycling, discard cap and deliver clean container to an Agrecovery depot. Alternatively crush and bury in an approved

landfill.

14. Transport Information

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

UN number:NAProper shipping name:NAClass(es)NAPacking group:NAPrecautions:NAHazchem code:NA

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15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR000664, Emulsifiable concentrate containing 250 g/litre metalaxyl. Also contains methyl pyrrolidone. 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 substances the

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 certificateNot required.Flammable zoneNot required.Fire extinguisherNot required.Application RatesSee label.

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.

ACVM Approval: P005413

16. Other Information

Abbreviations

Approval Code Approval HSR000664, Emulsifiable concentrate containing 250 g/litre metalaxyl. Also

contains methyl pyrrolidone 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)

International Agency for Research on Cancer

LEL Lower Explosive Limit

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

LC₅₀ 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 RESystem 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

Date Reason for review

July 2022 Not 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.

