

SAFETY DATA SHEET

HORTCARE® ABAMECTIN

SECTION 1: Identification

Product name: HORTCARE® Abamectin

Chemical Name: Avermectin B1; Abamectin

Recommended

Insecticide, miticide

Use:

Restriction of use: Refer to section 15

Company: Grosafe Chemicals Ltd.

Address: 20 Jean Batten Drive, Mt Maunganui. (P.O. Box 14450 Tauranga, 3143)

Email: info@grosafe.co.nz

Telephone: 0800 220 002

Emergency 0800 CHEMCALL (0800 243622)

Telephone The National Poisons Centre, 0800 POSION (0800 764 766)

Numbers:

SECTION 2: Hazards Identification

This substance is classified as hazardous according to the Hazardous Substances (Hazard Classification) Notice 2020 - EPA Approval No: HSR000734

Pictograms







Signal word: DANGER

Hazard Classification	Hazard Code	Hazard Statement
Flammable Liquid 4	H227	Combustible liquid
Acute Toxic 4 (inhalation)	H332	Harmful if inhaled
Acute Toxic 4 (oral)	H302	Harmful if swallowed
Skin Irritant 2	H315	Causes skin irritation
Eye Irritant 2	H319	Causes serious eye irritation
Reproductive Toxicity 1	H360	May damage fertility or the unborn child
Effect on or via lactation	H362	May cause harm to breast-fed children
Specific Target Organ Toxicant	H373	May cause damage to organs through
(repeated exposure) 2		prolonged or repeated exposure
Aquatic Acute 1	H400	Very toxic to aquatic life.
Aquatic Chronic 1	H410	Very toxic to aquatic life with long
Hazardous to soil organisms		Hazardous to soil organisms
Hazardous to terrestrial vertebrates		Hazardous to terrestrial vertebrates
Hazardous to terrestrial		Hazardous to terrestrial invertebrates
invertebrates		



Frevention code Frevention Statemen	Prevention code	Prevention Statement
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P210 Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking.

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

protection.

P264 Wash hands and exposed skin thoroughly after handling
P270 Do not eat, drink or smoke when using this product
P271 Use only outdoors or in a well-ventilated area

P201 Obtain special instructions before use

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

understood

P260 Do not breath vapour or spray/mist.

Response code Response Statement

P370+P378 In case of fire use XXX to extinguish

P301+P312 IF SWALLOWED: Call a POISON CENTRE or doctor if you feel

unwell.

P330 Rinse mouth.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortably for

breathing.

P312 Call a PŌISON CENTRE or doctor if you feel unwell.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P332+P313 If skin irritation occurs: Get medical advice/attention
P263+P364 Take of contaminated clothing and wash it before reuse.

P305+P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove

+P338 contact lenses, if present and easy to do. Continue rinsing.

P377+P313 If eye irritation persists: Get medical attention.

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

P314 Get medical advice/attention if you feel unwell.

P391 Collect spillage.

Storage Code Storage Statement Store locked up.

P403 Store in a well-ventilated place

Disposal Code Disposal statement

P501 Wherever possible completely use material in accordance with label

directions. Dispose of unwanted contents in accordance with local and national regulations using a licensed waste disposal company. Triple rinse containers and add rinsate to spray tank before puncturing and offering for recycling or landfill. DO not allow product or containers

to enter waterways. Do not burn product or containers.

SECTION 3: Composition / information on ingredients

Ingredients	CAS Number	Content (% w/w)
Abamectin	71751-41-2	2%
N-methyl pyrolidone	872-50-4	30-60%
N-hexanol	111-27-3	10-30%
Aromatic hydrocarbons	64742-94-5	10-30%
Trade secret ingredients that do not independently trigger hazard classifications	-	To balance

SECTION 4: First Aid Measures

Routes of exposure:

If swallowed Rinse mouth. Call a POISON CENTRE or doctor if you feel unwell.



If on Skin Wash with plenty of soap and water. If skin irritation occurs: Get medical

advice/attention

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 attention.

If inhaled Remove person to fresh air and keep comfortably for breathing. Call a POISON

CENTRE or doctor if you feel unwell.

Most important symptoms and effects, both acute and delayed:

If on skin: Causes skin irritation.

If in eyes: Causes serious eye irritation.

Note to physician: Treat symptomatically.

SECTION 5: Fire Fighting Measures

Hazard typeCombustible liquid.Fire/explosion HazardWill support a fire.PolymerisationNot known to occur.

products formed.

Suitable extinguishing media Small fires: Use water spray, alcohol-resistant foam, dry chemical

or carbon dioxide.

Large Fires: Alcohol resistant foam or water spray.

Unsuitable extinguishing media Precautions for firefighters and

special protective clothing

Do not use a solid water stream as it may scatter and spread fire. Full protective clothing and self-contained breathing apparatus.

Specific Methods Keep up wind. Do not allow washings to reach sewage or effluent

systems. Cool closed containers exposed to fire with water spray.

HAZCHEM CODE 2Z

SECTION 6: Accidental Release Measures

Wear personal protective equipment (as detailed in Section 8).

Evacuate the area of unnecessary personnel.

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Prevent entry of chemical or used/damaged containers into sewers, drains, streams, or waterways. If necessary, inform the police and the Regional Council.

Methods and material for containment and cleaning up:

Prevent liquid from entering sewers, waterways, or low areas by bunding or dyking. Absorb spills with an inert material (such as vermiculite, earth, sand or synthetic absorbent substance) and place into labelled containers for disposal. Wash area with water and alkaline detergent. Then absorb any remaining liquid with further inert material. Dispose of the waste safely in an approved facility. (See section 13 for disposal instructions).

SECTION 7: Handling and Storage

Precautions for Handling:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No



smoking.

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area
- Do not breath vapour or spray/mist.
- Wash hands and exposed skin thoroughly after handling.

Precautions for Storage:

Keep out of reach of children and animals. Store locked up in tightly closed, original container in a cool, dry, well-ventilated area, out of direct sunlight. Do not store with oxidizing agents, corrosives, food, feedstuffs, fertilisers, and seeds. Storage must be in accordance with NZS 8409 Management of Agrichemicals.

This substance is subject to a requirement for an emergency management response plan, secondary containment and signage, whenever it is held in quantities of 100 kg or more, either alone or in aggregate with other hazardous substances. See Hazardous Substances (Emergency Management) Regulations 25 to 42.

SECTION 8: Exposure Control / Personal Protection

Workplace exposure standards (provided for guidance only)

Substance TWA STEL ppm mg/m3 ppm mg/m3 25ppm/103mg/m³ N-methyl pyrolidone 75ppm/309mg/m³

Butylated hydroxytoluene 10mg/m^3

Workplace Exposure Standard - Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard - Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES- Product Name: Phoenix Fungicide Issued by: Technical Compliance Consultants (NZ) Ltd Date of SDS: 28 May 2019 Tel: 64 9 475 5240 www.techcomp.co.nz Page 4 TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2017 9TH EDITION.

Engineering controls

Use only outdoors or in a well-ventilated area. Keep container tightly closed.

Personal Protective Equipment

Skin Chemical resistant gloves (e.g., nitrile), overalls and boots.

Safety goggles or face shield. **Eyes**

Facilities storing or utilizing this material should be equipped with an eyewash

facility.

Do not eat, drink, or smoke when handling this product. Do not breathe fumes or General

spray/mist. Wash hands and exposed skin with soap and water after handling.

SECTION 9: Physical and Chemical Properties

Appearance Yellow liquid Odour Aromatic odour

Odour Threshold No data 4.5 - 7 Hq



Melting point/freezing pointNo dataBoiling pointNo dataFlash point>60°CFlammabilityCombustibleUpper and lower flammabilityNo data

or explosive limits

Vapour pressureNo dataVapour densityNo data

Density c.a 0.93 @ 25°C

Solubility Forms an emulsion in water.

Partition Coefficient: n-

octanol/water

No data

Auto-ignition temperatureNo dataDecomposition temperatureNo dataKinematic viscosityNo dataParticle characteristicsNot applicable

SECTION 10: Stability and Reactivity

Stability of substance Stable under normal storage conditions.

Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking.

Incompatible materials Acids, alkalis, oxidizing agents.

Hazardous decomposition

products

If involved in fire, carbon dioxide, carbon monoxide, may be

formed.

SECTION 11: Toxicological Information

Acute toxicity - oral LD₅₀ (rat) 8.7 mg/kg (abamectin)

Acute toxicity - dermal LD₅₀ (rabbit) >1600 mg/kg (abamectin)

Acute toxicity - inhalation No data

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Causes eye irritation (rabbit): Mild to moderate corneal irritation in unwashed eyes and mild conjunctiva irritation in unwashed

eyes. All effects reversed in 7 days.

Respiratory or skin

sensitization

Not applicable

Germ cell mutagenicity

Not applicable

Carcinogenicity

Not applicable

Reproductive toxicity Suspected of damaging fertility or the unborn child. NOAEL 0.12

mg/kg bw/day (abamectin). May cause harm to breast-fed

children.

Specific target organ toxicity -

single exposure

Not applicable

Specific target organ toxicity -

repeated exposure

May cause neurotoxicity through prolonged or repeated

exposure.

Aspiration hazard Not applicable



SECTION 12: Ecological Information

Ecotoxicity (abamectin)

Fish Acute: Rainbow trout LC₅₀ 0.0036 mg/L 96 hour

Chronic: Rainbow trout LC50 LOEC 0.0093 ug/L

Crustaceans Acute: Daphnia magna EC₅₀ 0.00034 mg/L 48 hour

Chronic: Daphnia magna NOEC 21 days 0.03 ug/L

Aquatic plants No data
Algae No data

Birds Acute: Bobwhite quail LD₅₀ >2000 mg/kg

Dietary: Bobwhite quail LC₅₀ >3102 mg/kg; mallard duck 383 mg/kg

EarthwormNo dataBeesBees

LD50 (oral) $>0.009 \mu g/bee$; LD50 (contact) $0.002 \mu g/bee$

Persistence and Mean soil half-life 80.6 days

degradability

Potential to Low

bioaccumulate

Mobility in soil Low to moderate (dependant on soil organic matter)

Other adverse effects No data

SECTION 13: Disposal Considerations

Product: Dispose of this product only by using according to the label, or through the Agrecovery® Chemical Recovery service or other licensed hazardous waste disposal facility.

Container: Triple rinse empty container and add rinsate to spray tank. Submit clean empty container to an Agrecovery® depot for recycling. Alternatively, puncture and dispose of at an approved landfill.

Avoid contamination of any water supply with product or empty container

Precautions: Do not allow product or empty container to enter waterways.

Disposal methods to avoid. Do not burn empty container. Do not allow product or empty container to enter waterways.

SECTION 14: Transport Information

This product is classified as a Dangerous Good for transport in NZ; NZS 5433



Road and Rail Transport

UN No 2902 Class-primary 9 Packing group III

Proper shipping name PESTICIDE, LIQUID, TOXIC, N.O.S. (CONTAINS ABAMECTIN 1.9%)



Air Transport

UN No 2902 Class-primary 9 Packing group III

Proper shipping name PESTICIDE, LIQUID, TOXIC, N.O.S. (CONTAINS ABAMECTIN 1.9%)

Marine Transport

UN No 2902 Class-primary 9 Packing group III

Proper shipping name PESTICIDE, LIQUID, TOXIC, N.O.S. (CONTAINS ABAMECTIN 1.9%)

Marine Pollutant YES

SECTION 15: Regulatory Information

This substance is hazardous according to the *Hazardous Substances (Hazard Classification)*Notice 2020 - EPA Approval No: HSR000734

Hazard Classifications: Flammable Liquid 4, Acute Toxic 4 (inhalation), Acute Toxic 4 (oral), Skin Irritant 2, Eye Irritant 2, Reproductive Toxicity 1, Effect on or via lactation, Specific Target Organ Toxicant (repeated exposure) 2, Aquatic Acute 1, Aquatic Chronic 1, Hazardous to soil organisms, Hazardous to terrestrial vertebrates, Hazardous to terrestrial invertebrates

HSW (HS) Regulations 2017 Trigger Quantity
Certified Handler Not required
Location Certificate Not required

Signage Trigger Quantity

(Schedule 3)

Emergency Response Plan

(Schedule 5)

Secondary Containment

(Schedule 16)

Tracking (Schedule 26)

Not required

100L

100L

100L

Controls

Record Keeping If 3 kg or more of the substance is applied within 24 hours,

in a place where the substance is likely to enter air or water and leave the application area, a PCBU with management or control of the substance must ensure that a written record is kept of each application of the substance. Refer HPC

Section 48 (3) for record requirements.

Qualifications Anyone who mixes, loads, or applies this product, either by

air or ground based methods, is required to be suitably qualified, or must receive guidance and, if required,

assistance from a suitably qualified person.

Refer to Schedule 10 of the Hazardous Substances (Hazardous Property Controls) Notice 2017 for a list of

suitable qualifications.

HSNO Additional controlsDo not apply onto or into water.

Tolerable Exposure Level (TEL) None set

Environmental Exposure Limit An EEL (water) has been set for abamectin of 0.000001

mg/L

(EEL)



ACVM Approval Number P8695. See www.foodsaftey.govt.nz for registration

conditions

SECTION 16: Other Information

Glossary

ACVM Agricultural Compounds and Veterinary Medicines Act 1997

EC50 Median effective concentration
EEL Environmental exposure limit
EPA Environmental Protection Authority

HSNO Hazardous Substances and New Organisms Act 1996

HSW Health and Safety at Work Act 2015

HSW (HS) Health and Safety at Work (Hazardous Substances) Regulations 2017

Regulations

LC50 Lethal concentration that will kill 50% of the test organism

LD50 Lethal dose to kill 50% of the test organism

WES Workplace exposure Limit

References

1. EPA Hazardous substances (Safety Data Sheets) Notice 2017

- 2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition
- 3. Assigning a hazardous substance to a HSNO approval (Aug 2013)
- 4. Transport of Dangerous Goods ON Land NZS 5433:2012
- 5. HSW (Hazardous Substances) Regulations 2017
- 6. United States Environmental Protection Agency Memorandum USEPA PC Code: 122804

Disclaimer

This document has been issued by Grosafe Chemicals Limited and serves as their Safety Data Sheet (SDS). It is based on information concerning the product which is held by Grosafe Chemicals Ltd or has been obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. While Grosafe Chemicals Ltd has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to the accuracy or completeness. As far as lawfully possible, Grosafe Chemicals Ltd accept not liability for any loss, injury, or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of the reliance on the information contained in this SDS. The information herein is given in good faith, but no warrant, express or implied, is made.