

Safety Data Sheet

Identification of Substance & Company

Product

Product name VEGEMAX LIQUID FERTILISER

Product code

HSNO approval HSR002571

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

Company Details

Company Amalgamated Hardware Merchants Ltd (AHM) **Address** 8 Hautu Drive, PO Box 97162

> Wiri, Manukau Manukau, 2241 New Zealand New Zealand

Telephone +64 9 2511310 Faxi +64 9 2511311

Emergency Telephone Number: 0800 764 766

Hazard Identification

This product has been approved under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002571), and is classified as follows:

Classes **Hazard Statements**

6.4A H320 - Causes eye irritation.

SYMBOLS

WARNING



Other Classifications

There are no other Classifications that are known to apply.

Precautionary Statements

P103 - Read label before use.

P264 - Wash hands thoroughly after handling.

P280 - Wear eye protection.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Product Name: VEGEMAX LIQUID FERTILISER

P337+P313 - If eye irritation persists: Get medical advice/attention.

Composition / Information on Ingredients

Component	CAS/ Identification	Class for ingredient(s)	Conc (%)
Ammonium nitrate	6484-52-2	5.1.1C, 6.1E (oral), 6.4A, 9.1D	11.5%
ingredients not contributing to HSNO classes	mixture	mixture - classification not contributing to HSNO classes	balance

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



Safety Data Sheet

First Aid

General Information

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 required. Accessible eyewash is required.

Exposure

Swallowed

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

Contact a doctor.

Eve 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.

Wash affected area with soap and water. Remove contaminated clothing and wash Skin contact

before use.

Inhaled Generally, inhalation of fumes 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

Firefighting Measures

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

flammable or oxidiser.

alcohol resistant foam.

Suitable extinguishing

substances:

Unsuitable extinguishing

substances: Products of combustion:

Oxides of nitrogen, nitric acid vapour and ammonia. May form toxic mixtures in air and

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

may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive

mixtures.

Unknown.

Protective equipment: Do not allow solution to dry out. Ammonium nitrate solid is classed as an oxidiser and

may intensify fire.

Hazchem code: NA

Accidental Release Measures

Containment There is no current legal requirement for secondary containment. However in all cases

design storage to prevent discharge to stormwater.

Emergency procedures In the event of a large spillage (>100L) 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 saw dust. Prevent by whatever means possible any spillage from entering drains, sewers, or water courses. (If

this occurs contact your regional council immediately).

Clean-up method 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 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 Floors may be slippery when wet. Wear protective equipment to prevent skin and eye

contamination and the inhalation of vapours. Work up wind or increase ventilation.

Product Name: VEGEMAX LIQUID FERTILISER



Safety Data Sheet

Storage & Handling

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

below 40°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.

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

section 8 with regard to personal protective equipment requirements.

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 (2016)

No ingredient listed

* These workplace exposure standards are also Prescribed Exposure Standards (PES) under the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016.

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.

Personal Protective Equipment

Eyes

Avoid contact with eyes. Use safety glasses and or chemical splash goggles if splashes are possible.

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. A respirator when airborne concentrations approach the WES (section 8). Use a respirator with a particulate filter. If using a respirator, ensure that the cartridges are

Product Name: VEGEMAX LIQUID FERTILISER

correct for the potential air contamination and are in good working order.

WES Additional Information

Not applicable

Respiratory

Physical & Chemical Properties

Appearance green liquid Odour characteristic

pН 5.5 (original state), 6.5 (16g/L H₂O @20°C)

Vapour pressure no data Viscosity no data **Boiling point** no data Volatile materials no data Freezing / melting point no data

soluble in water Solubility Specific gravity / density 1.24g/cm³ @20°C

Flash point no data

Danger of explosion The solution is not deemed explosive, but in a crystallised state exist

Auto-ignition temperature no data **Upper & lower flammable limits** no data Corrosiveness non corrosive



Safety Data Sheet

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. Store below 40°C

Incompatible groups Alkalis

Hazardous decomposition

products

Nitrous gases and ammonia

Hazardous reactions Reaction with alkalis produces ammonia

Toxicological Information

Summary

IF IN EYES: may cause eye irritation.

IF INHALED: concentrated vapours may cause respiratory irritation, coughing, sore throat.

IF ON SKIN: may cause mild skin irritation.

IF SWALLOWED: large amounts may be harmful if swallowed.

CHRONIC EFFECTS: none known.

Supporting Data

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

mg/kg. Data considered includes: Ammonium nitrate 2217 mg/kg (rat).

Dermal No evidence of dermal toxicity. Inhaled No evidence acute inhalation toxicity.

The mixture is considered to be an eye irritant. Ammonium nitrate is considered an eye Eye

irritant.

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

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

Mutagenicity No ingredient present at concentrations > 0.1% is considered a mutagen. Carcinogenicity 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 mixture is not considered harmful to the environment.

Supporting Data

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

considered includes: Ammonium nitrate 74 mg/l (48hr) fish, 111 - 840 mg/L (48hr)

Product Name: VEGEMAX LIQUID FERTILISER

(Crustacea) 83 mg/l (algae).

Bioaccumulation No data Degradability No data

Soil No evidence of soil toxicity.

Terrestrial vertebrate The mixture is not considered ecotoxic to terrestrial vertebrates (see acute toxicity).

Terrestrial invertebrate No evidence of toxicity towards terrestrial invertebrates.

Biocidal no data

Environmental effect levels No EELs are available for this mixture or ingredients



VEGEMAX LIQUID FERTILISER **Safety Data Sheet**

Product Name: VEGEMAX LIQUID FERTILISER

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 of this product must comply with the requirements of the Resource Management Disposal method

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 Rinse containers with water before disposal. Preferably re-cycle container, otherwise

send to landfill or similar.

Transport Information

There are no specific restrictions for this product (not a dangerous good).

UN number: NA Proper shipping name: Not regulated

Class(es) NA Packing group: NA **Precautions:** Not applicable. Hazchem code: NA

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 2006.

Specific Workplace Controls (as per HSNO approval referenced to Controls Matrix)

Key workplace requirements are:

SDS To be available within 10 minutes in workplaces storing > 50L.

No removal of labels and/or decanting of product into other containers can occur. Labelling

Emergency plan Not required. Approved handler Not required. Tracking Not required. Bunding & secondary containment Not required. Signage Not required. Location test 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.

All aspects of storage, handling use, disposal and record keeping must be in accordance with NZS 8409:2004 "Management of Agrichemicals".



Safety Data Sheet

Other Information

Abbreviations

Approval HSR002571, Fertilisers (Subsidiary Hazard) Group Standard 2006 Controls, **Approval Code**

EPA. www.epa.govt.nz

CAS Number Unique Chemical Abstracts Service Registry Number

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

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

EC₅₀ Ecotoxic Concentration 50% - concentration in water which is fatal to 50% of a test

population (e.g. daphnia, fish species)

FΡΔ Environmental Protection Authority (New Zealand)

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/UEL Lower Explosive Limit/Upper Explosive limit.

 LD_{50} 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 LC₅₀

(usually rats)

MSDS (SDS) Material Safety Data Sheet (or Safety Data Sheet)

Prescribed Exposure Standard means a WES or a biological exposure standard that is **PES**

prescribed in a regulation, a safe work instrument or an approval under HSNO (including

group standards).

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 Data

database (CCID).

EPA Transfer Gazettes

Classifications and controls assigned for specific ingredients (consolidated gazette, 2004) **WES 2016** The NZ Workplace Exposure Standards Effective from 2016, published by WorkSafe NZ

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

WES 2002 Workplace Exposure Standards published by the Occupational Safety and Health

Service, Department of Labour, January 2002, ISBN 0-477-03660-0. These are the WES

referred to under the Group Standard (HSNO approval) and may constitute a PES.

Other References: Suppliers SDS

Review

Date Reason for review February 2017 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 quidelines 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.

