
VALAGRO SDS according to to HSNO Regulations – NZ EPA

Date: March 26, 2020 Rev. 1.0

Product: VITASEVE

Code: 12481

Print Date: 26 March 2020

SAFETY DATA SHEET

VITASEVE

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Mixture identification:

Name: VITASEVE

Code: 12481

1.2 Relevant identified uses of the substance/mixture and uses advised against

Recommended use: Fertilizer

1.3 Details of the supplier of the safety data sheet

Produced and packed by:

VALAGRO Spa

Via Cagliari, 1 Zona Industriale

66041 Atessa (CH) ITALY

Tel. (+39) 08728811 Fax (+39) 0872881382

www.valagro.com

Distributed and guaranteed by:

Campbells Fertilisers Australasia

18 Raymond Road, Laverton North, Victoria, 3026

Phone: (03) 9931 2211

Fax: (03) 9931 2201

www.campbellsfert.com.au

Competent person responsible for the safety data sheet:

regulatory@valagro.com


1.4. Emergency telephone number

Poison Information Centre - Telephone: 131126 (Australia wide – 24HRS)

SECTION 2. HAZARDS IDENTIFICATION

Classification according to the Hazardous Substances (Classification) Notice 2017 of the HSNO Act, 1996:

HSNO Classification:

6.4A  Warning, Eye Irrit. 2A, Causes serious eye irritation.

9.1.C Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:

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Warning

Hazard statements:

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

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

P102 Keep out of reach of children.

P103 Read label before use.

P264 Wash hands thoroughly after handling

P273 Avoid release to the environment.

P373 +P313 If eye irritation persists: Get medical advice/attention.

P280 Wear protective gloves and eye/face 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.

P501 Dispose of contents/container in accordance with applicable regulations.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances


N.A.

3.2 Mixtures

1% - 3% Manganese sulphate

Index number: 025-003-00-4, CAS: 7785-87-7, EC: 232-089-9

Reach registration number: 01-2119456624-35-xxxx

 3.3/1 Eye Dam. 1 H318


 3.9/2 STOT RE 2 H373

 4.1/C2 Aquatic Chronic 2 H411

0.5% - 1% Zinc sulphate

Index number: 030-006-00-9 CAS: 7733-02-0 EC: 231-793-3

Reach registration number: 01-2119474684-27-xxxx

 3.3/1 Eye Dam. 1 H318

 4.1/A1 Aquatic Acute 1 H400

 4.1/C1 Aquatic Chronic 1 H410

 3.1/4/Oral Acute Tox. 4 H302

For full text of H-statements: see SECTION 16

SECTION 4. FIRST AID MEASURES

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4.1 Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Never give anything by mouth to an unconscious person; If person is conscious rinse mouth with water and then give plenty of water to drink. Do not induce vomiting unless instructed to do so by medical personnel. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

4.2 Most important symptoms and effects, both acute and delayed

No data available for the mixture.

Possible symptoms that may occur:

Contact with eyes:

Cause eye irritation

Symptoms include pain and redness

Inhalation: unlikely under normal working conditions;

May cause irritation to the respiratory tract

Symptoms: cough

Ingestion:

The product dissolved in water, cause an acid reaction and if swallowed can cause irritation and burns of the mouth, throat and digestive tract.

Symptoms: abdominal pain, gastrointestinal disorders

Contact with skin:

May cause irritation to the skin

Symptoms: redness, itching, pain.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment:

In case of incident seek medical advice showing the safety data sheet

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2 Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke containing sulphur oxides

5.3 Advice for fire-fighters

Wear suitable personal protective equipment and self-contained breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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Move undamaged containers from immediate hazard area if it can be done safely.
Protective clothing for firefighters (full protective suit, helmet, gloves, boots) must conform to the standard EN469

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

No action shall be taken involving any personal risk or without suitable training

Wear protective clothes giving a total skin protection, gloves and safety glasses.

Keep away from the affected area people not involved in the emergency intervention.

Ensure adequate ventilation.

Alert the internal emergency team.

For emergency responders:

Wear protective clothes giving a total skin protection, nitrile gloves and safety glasses.

See protective measures under point 7 and 8.

Remove people to safety.

6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it in landfill approved;

If possible, collect in clean plastic containers labeled and reuse as fertilizer.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, soil, sand.

6.3. Methods and material for containment and cleaning up

Wash with plenty of water, contain the spill with absorbent material

Collect the product for example using shovel and broom

6.4. Reference to other sections

See also section 8 and 13

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2 Conditions for safe storage, including any incompatibilities

Keep in original containers tightly closed in a well-ventilated place far from heat source

Keep away from food, drink and feed.

Incompatible materials:

Alkaline and acid substances; oxidants and reducing substances

Instructions as regards storage premises:

Adequately ventilated premises.

7.3 Specific end use(s)

None in particular

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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8.1 Control parameters

- manganese sulphate - Index: 025-003-00-4, CAS: 7785-87-7, EC No: 232-089-9

Exposure limit Manganese (Mn) TWA 0.2 mg/m³ inorganic compounds

Critical effect: central nervous system

Workers:

DNEL skin = 0.00414 mg / kg / day

DNEL inhalation = 0.2 mg / kg / day

Population:

DNEL skin = 0.0021 mg / kg / day

DNEL inhalation = 0.043 mg / m³

Environment:

PNEC water (fresh water) = 0.0128 mg / l

PNEC water (sea water) = 0.0004 mg / l

PNEC water (intermittent emissions) = 0.03 mg / l

PNEC STP = 56 mg / l

PNEC sediment (fresh water) = 0.0114 mg / kg dw sediment

PNEC sediment (sea water) = 0.00114 mg / kg dw sediment

PNEC soil = 25.1 mg / kg soil dw

- zinc sulphate - Index: 030-006-00-9, CAS: 7733-02-0, EC No: 231-793-3

soluble zinc compounds

Country/organisation	8 hour-TWA mg/m ³	15 min-STEL mg/m ³	References
USA	1	2	ACGIH (1991)
The Netherlands	1		SZW (1997)
UK	1	2 ^{a)}	HSE (1998)
Sweden	1 ^{b)}		National Board of Occupational Safety and Health, Sweden (1993)
Denmark	0.5		Arbejdstilsynet, 1992

a) This value is a 10 minutes-STEL

b) This TWA is determined for dust

DNELs and PNECs

DNELs

- **Oral**

- DNEL_{oral soluble Zn} = 50 mg Zn/day (i.e., 0.83 mg Zn/kg bw/day);

- DNEL_{oral insoluble Zn} = 50 mg Zn/day (i.e., 0.83 mg Zn/kg bw/day);

- **Dermal**

- DNEL_{dermal soluble Zn} = 500 mg Zn/day (i.e., 8.3 mg Zn/kg bw/day);

- DNEL_{dermal insoluble Zn} = 5000 mg Zn/day (i.e., 83 mg Zn/kg bw/day);

- **Inhalation - Worker**

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- $DNEL_{\text{inhal soluble Zn (worker)}} = 1 \text{ mg Zn/m}^3$;
- $DNEL_{\text{inhal insoluble Zn (worker)}} = 5 \text{ mg Zn/m}^3$;

• **Inhalation - Consumer**

- $DNEL_{\text{inhal soluble Zn (consumer)}} = 1.3 \text{ mg Zn/m}^3$;
- $DNEL_{\text{inhal insoluble Zn (consumer)}} = 2.5 \text{ mg Zn/m}^3$;

PNECs derived for the zinc ion

Compartment (Environment)	PNEC value for Zn ion
Freshwater	20.6* $\mu\text{g/L}$
Saltwater	6.1* $\mu\text{g/L}$
STP	52 $\mu\text{g/L}$
Freshwater sediment	117.8* $\text{mg/kg sediment d.w.}$ A generic bioavailability factor of 0.5 is applied by default: $PNEC_{\text{bioav}}: 235.6 \text{ mg/kg sediment d.w.}$
Saltwater sediment	56.5* $\text{mg/kg sediment d.w.}$ A generic bioavailability factor of 0.5 is applied by default: $PNEC_{\text{bioav}}: 113 \text{ mg/kg sediment d.w.}$
Soil	35.6* mg/kg soil d.w. A generic bioavailability/ageing factor of 3 is applied by default: $PNEC_{\text{bioav}}: 106.8 \text{ mg/kg soil d.w.}$
Oral	No potential for bioaccumulation

*added value

8.2. Exposure controls

Eye protection:

Use close fitting safety goggles according to the standard EN 166, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin

Protection for hands:

Use protective gloves according to EN 374 that provides comprehensive protection, e.g. nitrile

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None

Environmental exposure controls:

Prevent the contamination of soil, surface water or groundwater

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance and colour: Fluid paste light blue
 Odour: characteristic
 Odour threshold: N.A.
 pH: 5.2
 Melting point / freezing point: N.A.
 Initial boiling point and boiling range: > 100°C
 Solid/gas flammability: not applicable

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Upper/lower flammability or explosive limits: not applicable
 Vapour density: N.A.
 Flash point: not applicable
 Evaporation rate: N.A.
 Vapour pressure: N.A.
 Density: 1.2 Kg/dm³ at 20°C
 Solubility in water: N.A.
 Lipid solubility: N.A.
 Partition coefficient (n-octanol/water): N.A.
 Auto-ignition temperature: not applicable
 Decomposition temperature: N.A.
 Viscosity: N.A.
 Explosive properties: not applicable
 Oxidizing properties: not applicable

9.2 Other information

Miscibility: N.A.
 Fat Solubility: N.A.
 Substance Groups relevant properties N.A.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions

10.2 Chemical stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

None known

10.4 Conditions to avoid:

Avoid high temperatures

10.5 Incompatible materials:

Alkaline and acid substances; oxidants and reducing substances

10.6 Hazardous decomposition products:

None.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Toxicological information of the mixture: Not available

Toxicological information of the main substances in the mixture:

a) acute toxicity:

- manganese sulphate Index number: 025-003-00-4, CAS: 7785-87-7, EC: 232-089-9
 LD50 Oral = 2150 mg/Kg Singh PP and Junnarkar AY (1991)
 LC50 Inhalation > 4.98 mg/l Griffiths, DR (2010)
 Skin: Manganese sulphate, absorption through skin is unlikely

- zinc sulphate - Index: 030-006-00-9, CAS: 7733-02-0, EC No: 231-793-3

Product	Results	Species	Doses	Ref.
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Zinc sulphate monohydrate hexahydrate heptahydrate	LD50 Oral	Rata	574 to 2,949 862 to 4,429 920 to 4,725 mg/kg	Litton Bionetics, 1974 Courtois et al., 1978
Zinc sulphate	LD50 Dermal	Rat	>2000 mg/kg	Van Huygevoort (1999a)

- b) skin corrosion/irritation:
- manganese sulphate Index number: 025-003-00-4, CAS: 7785-87-7, EC: 232-089-9
in vivo test on rabbit OECD 404: Not irritating - Ref .Pooles (2010)
 - zinc sulphate - Index: 030-006-00-9, CAS: 7733-02-0, EC No: 231-793-3
not irritant (Van Huygevoort, 1999b;Lansdown, 1991)
- c) serious eye damage/irritation:
- manganese sulphate Index number: 025-003-00-4, CAS: 7785-87-7, EC: 232-089-9
Test in vitro Reconstituted Corneal Epithelium: not irritant Ref. Warren N (2009b)
Test in vivo: Irreversible eye damage (test based on one rabbit)
 - zinc sulphate - Index: 030-006-00-9, CAS: 7733-02-0, EC No: 231-793-3
Severe irritant (Van Huygevoort, 1999f)
- d) respiratory or skin sensitisation:
- manganese sulphate Index number: 025-003-00-4, CAS: 7785-87-7, EC: 232-089-9
Skin: Not classified as a sensitizer
Respiratory system: N.A.
 - zinc sulphate - Index: 030-006-00-9, CAS: 7733-02-0, EC No: 231-793-3
no sensitizing effect known (Van Huygevoort, 1999i, Ikarashi et al, 1992)
- e) germ cell mutagenicity:
- manganese sulphate Index number: 025-003-00-4, CAS: 7785-87-7, EC: 232-089-9
not mutagenic
 - zinc sulphate - Index: 030-006-00-9, CAS: 7733-02-0, EC No: 231-793-3
no mutagenic
- f) carcinogenicity:
- manganese sulphate Index number: 025-003-00-4, CAS: 7785-87-7, EC: 232-089-9
not classified as cancerogenic
 - zinc sulphate - Index: 030-006-00-9, CAS: 7733-02-0, EC No: 231-793-3
not classified as cancerogenic
- g) reproductive toxicity:
- manganese sulphate Index number: 025-003-00-4, CAS: 7785-87-7, EC: 232-089-9
not classified
 - zinc sulphate - Index: 030-006-00-9, CAS: 7733-02-0, EC No: 231-793-3
not classified
- h) STOT-single exposure:
- manganese sulphate Index number: 025-003-00-4, CAS: 7785-87-7, EC: 232-089-9
not classified

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- zinc sulphate - Index: 030-006-00-9, CAS: 7733-02-0, EC No: 231-793-3
not classified
- i) STOT-repeated exposure:
 - manganese sulphate Index number: 025-003-00-4, CAS: 7785-87-7, EC: 232-089-9
STOT RE 2 May cause damage to the brain through prolonged or repeated exposure by inhalation.
 - zinc sulphate - Index: 030-006-00-9, CAS: 7733-02-0, EC No: 231-793-3
not classified
- j) aspiration hazard:
 - manganese sulphate Index number: 025-003-00-4, CAS: 7785-87-7, EC: 232-089-9
STOT RE 2 May cause damage to the brain through prolonged or repeated exposure by inhalation.
 - zinc sulphate - Index: 030-006-00-9, CAS: 7733-02-0, EC No: 231-793-3
not classified

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Adopt good working practices, so that the product is not released into the environment.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- manganese sulphate - Index: 025-003-00-4, CAS: 7785-87-7, EC No: 232-089-9

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Aquatic compartment	Results	Substance	Reference
Short-term toxicity: <i>Oncorhynchus mykiss</i> Fresh water	LC50 (96 h): 14.5 mg/L Mn	Test material Manganese sulphate monohydrate	Davies PH (1980)
Long-term toxicity: <i>Oncorhynchus mykiss</i> , fresh water	NOEC (4 mo): 0.6 mg/L Mn	Test material (EC name): manganese sulphate	Davies P & Brinkman S (1994)
Short-term toxicity: <i>Daphnia magna</i> , fresh water	LC50 (48 h): 9.8 mg/L dissolved (meas. (arithm. mean)) based on: as Mn ²⁺	Test material (EC name): manganese chloride	Biesinger KE & Christensen GM (1972)
Long-term toxicity: <i>Daphnia magna</i> , salt water	LC50 (3 settimane): 5700 µg/L dissolved (meas. (arithm. mean)) based on: mortality	Test material (EC name): manganese chloride	Biesinger KE & Christensen GM (1972)
Algae: <i>Desmodesmus subspicatus</i> (algae, Growth Inhibition Test), fresh	EC50 (72 h): 61 mg/L test mat. (nominal) based on:	Test material	Vryenhoef H (2010)

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water	growth rate	manganese sulphate monohydrate	
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- zinc sulphate - Index: 030-006-00-9, CAS: 7733-02-0, EC No: 231-793-3
Acute aquatic toxicity
For zinc heptahydrate (a ZnSO₄.7H₂O/Zn molecular weight ratio of 4.4):
 - for pH <7: 1.82 mg Zn/l (based on 48 hr Ceriodaphnia dubia test cfr. above)
 - for pH >7-8.5: 0.60 mg Zn/l (based on 72 hr Selenastrum capricornutum test cfr. above)

M-factor: 1

12.2 Persistence and degradability

None

12.3 Bioaccumulative potential

The mixture doesn't contain any bioaccumulative component

12.4 Mobility in soil

The product is soluble and mobile in both terrestrial and aquatic compartments

12.5 Results of PBT and vPvB assessment

N.A.

12.6 Other adverse effects

None known

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

- Product: Recover if possible. Operate according to local and national.
Contact local authorities who will provide guidance regarding the disposal of special waste.
- Packaging: Dispose according to current regulations

SECTION 14. TRANSPORT INFORMATION

14.1 UN number:

Not classified as dangerous in the meaning of transport regulations.

14.2 UN proper shipping name:

N.A.

14.3 Transport hazard class(es):

N.A.

14.4 Packing Group:

N.A.

14.5 Environmental hazards

Marine pollutant: No

14.6 Special Precautions for User

N.A.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Environmental Pollutant:

No

SECTION 15. REGULATORY INFORMATION

15.1.1. EU-Regulations

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REACH Regulation (EC) No 1906/2006

15.1.2. National regulations

New Zealand

Classified as hazardous according to

Hazardous Substances (Classification) Notice 2017.

HSNO Approval Number (Group Standard)

HSR002571.

Fertiliser (Subsidiary Hazard) Group Standard 2006

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16. OTHER INFORMATION

Text of phrases referred to under heading 3:

H412 Harmful to aquatic life with long lasting effects.

H318 Causes serious eye damage.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

H410 Very toxic to aquatic life with long lasting effects.

H302 Harmful if swallowed.

Hazard class and hazard category	Code	Description
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,

Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

N.A.: No data available

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CLP: Classification, Labeling, Packaging.

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DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
WGK:	German Water Hazard Class.