

VALAGRO Safety Sheet  
Date: May 6, 2018 Rev. 1.0  
Product: Valagro EDTA Zn  
Code: 11655  
Print Date: May 6, 2019

## **SAFETY SHEET**

### **VALAGRO EDTA Zn**

#### **SECTION 1: Identification of the substance/mixture and of the company/undertaking**

##### 1.1. Product identifier

Identification of the substance

Chemical Name: Disodium[[[N,N'-ethylenediylbis[N-(carboxylatomethyl)glycinato]](4-)-N,N',O,O',ON,ON'] zincate(2-)

Trade name: VALAGRO EDTA Zn

Trade code: 11655

CAS number: 14025-21-9

EC number: 237-865-0

REACH Registration number: 01-2119963942-27-xxxx

Molecular weight: 399.6

Formula: C<sub>10</sub>H<sub>12</sub>N<sub>2</sub>O<sub>8</sub>Zn.2Na

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use:

Fertilizer

##### 1.3. Details of the supplier of the safety data sheet

AGRITRADE  
411 Blenheim Rd  
Sockburn  
Christchurch 8140  
Ph 03 341 4587  
Fax 03 341 4584  
Free Phone 0800 333 855  
[agritrade@nzagritrade.co.nz](mailto:agritrade@nzagritrade.co.nz)

##### 1.4. Emergency telephone number:

Emergency number : 24 Hour Emergency Contact: 0800 CHEMCALL (0800 243622)

NZ POISON CENTRE : 111 Police, Ambulance and Fire Brigade (available in New Zealand only)  
CONTACT : 0800 764 766 (National Poisons Information Centre)

#### **SECTION 2: Hazards identification**

##### 2.1. Classification of the substance or mixture

Classification according to the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001, New Zealand:

The product is not classified as dangerous

Classification according to OSHA Hazard Communication Standard (29 CFR 1910.1200):

The product is not classified as dangerous

EC regulation criteria 1272/2008 (CLP):

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

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## 2.2. Label elements

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Symbols:

None

Hazard statements:

None

Precautionary statements:

None

Special Provisions:

None

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

## 2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Identification of the substance

Disodium[[N,N'-ethylenediylbis[N-(carboxylatomethyl)glycinato]](4-)-N,N',O,O',ON,ON'] zincate(2-)

<i>Nome</i>	<i>N° EINECS</i>	<i>CAS NUMBER</i>
Zn EDTA sodium salt	237-865-0	14025-21-9

## SECTION 4: First aid measures

### 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:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

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:

Possible symptoms that may occur:

Inhalation: may cause irritation to the respiratory tract

Symptoms: cough, shortness of breath

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**Ingestion:**

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

Symptoms: vomiting, abdominal pain, gastrointestinal disorders

**Contact with skin:**

May cause irritation to the skin

Symptoms: redness, itching, pain.

**Contact with eyes:**

May cause eye irritation

Symptoms include pain and redness

**4.3. Indication of any immediate medical attention and special treatment needed**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**Treatment:**

None

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**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

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 carbon oxides, nitrogen oxides

**5.3. Advice for firefighters**

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

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

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

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**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, nitrile rubber gloves, safety glasses and mask with filter P2

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

Ensure adequate ventilation, move people in a safe place.

Alert the internal emergency team.

- For emergency responders:

Wear protective clothes giving a total skin protection, nitrile rubber gloves, safety glasses and mask with filter P2.

Ensure adequate ventilation, move people in a safe place.

See protective measures under point 7 and 8.

Avoid dust generation

Dusts at sufficient concentrations can form explosive mixtures with air

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- Avoid any accumulation of electrostatic charge
- 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
  - Collect the product for example using shovel and broom
  - Avoid raising dust
  - Wash with plenty of water, contain the spill with absorbent material, earth, sand.
- 6.4. Reference to other sections
  - See also section 8 and 13

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## **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 humidity and heat source
  - Keep away from food, drink and feed.
  - Incompatible materials:
    - Strong oxidants.
  - Instructions as regards storage premises:
    - Adequately ventilated premises.
- 7.3. Specific end use(s)
  - None in particular

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## **SECTION 8: Exposure controls/personal protection**

- 8.1. Control parameters
  - No occupational exposure limit available
  
  - ACGIH (2003) : recommended value inhalable dust: TLV/TWA: 10 mg/m<sup>3</sup>
  - ACGIH (2003) : recommended value breathable dust: TLV/TWA: 3 mg/m<sup>3</sup>
- 8.2. Exposure controls
  - The personal protective equipment must be compliant to the regulation UNI - EN in force
  - 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, e.g. cotton, rubber, PVC or viton.
  - Protection for hands:

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In case of permanent (>480 min) and direct contact , wear 100% nitrile rubber gloves according to EN 374.

Respiratory protection:

In case of dust generation, use anti-powder mask with P2 filters according to the EN 149:2001.  
The powder exposition limit must be respected

Thermal Hazards:

None

Environmental exposure controls:

Prevent the contamination of soil, surface water or groundwater

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance and colour:	white microgranules
Odour:	odorless
Odour threshold:	not applicable
pH 1% at 20°C:	5 - 7
Melting point / freezing point:	Decomposes before melting
Initial boiling point and boiling range:	not applicable, solid
Flash point:	not applicable, solid
Evaporation rate:	not applicable, solid
Solid/gas flammability:	not applicable, solid
Upper/lower flammability or explosive limits:	not applicable, the substance does not have explosive properties
Vapour density:	not applicable, solid
Vapour pressure:	not applicable, solid
Apparent Density:	0,8-1.0 Kg/dm <sup>3</sup>
Solubility in water:	1000 g/l at 20 °C
Solubility in oil:	N.A.
Partition coefficient (n-octanol/water):	N.A.
Auto-ignition temperature:	N.A.
Decomposition temperature:	N.A.
Viscosity:	not applicable, solid
Explosive properties:	not applicable, the substance does not have explosive properties
Oxidizing properties:	not applicable, the substance does not have oxidizing properties

### 9.2. Other information

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

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## 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

It reacts with strong oxidizing agents.

Contact with hot surfaces may ignite the product

### 10.4. Conditions to avoid

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- Avoid heating the product at high temperatures
- 10.5. Incompatible materials  
Strong oxidizing agents.
- 10.6. Hazardous decomposition products  
In case of fire and high temperatures can develop carbon oxides, nitrogen oxides.

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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Toxicological information of the substance:

- a) acute toxicity:  
not classified
- b) skin corrosion/irritation:  
not irritating
- c) serious eye damage/irritation:  
not irritating
- d) respiratory or skin sensitisation:  
Skin: not sensitizing
- e) germ cell mutagenicity:  
not classified
- f) carcinogenicity:  
non-carcinogenic
- g) reproductive toxicity:  
not classified
- h) STOT-single exposure:  
not classified
- i) STOT-repeated exposure:  
not classified
- j) aspiration hazard:  
unlikely event (solid)

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## SECTION 12: Ecological information

### 12.1. Toxicity

Not classified as hazardous

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

### 12.2. Persistence and degradability

Abiotic degradation: half-life 20 days

Resistant to hydrolysis (read across Ethylenediaminetetraacetic acid ferric sodium salt)

Biotic degradation:

The EDTA and its salts are not readily degradable; slightly alkaline pH improves the biodegradability of EDTA

### 12.3. Bioaccumulative potential

The substance has a low bioaccumulation potential (log Kow <3)

### 12.4. Mobility in soil

N.A.

### 12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

### 12.6. Other adverse effects

None

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## SECTION 13: Disposal considerations

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13.1. Waste treatment methods

Product :Recover if possible. In so doing, comply with the local and national regulations currently in force.

Packaging: Dispose according to regulations.

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**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

IMDG-Marine pollutant: No

14.6. Special Precautions for User

N.A.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

N.A.

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**SECTION 15: Regulatory information**

15.1. Safety, health and environmental regulations specific for the product in question.

**New Zealand**

Classification : Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.

National Chemical Inventories (NZIoC) : All components are listed on the New Zealand Inventory of Chemicals

HSNO Approval Number (Group Standard) : HSR002571. Fertiliser (Subsidiary Hazard) Group Standard 2006

**USA -Regulations**

Hazard Communication Standard (HCS) Haz Com 2012

OSHA, 29 CFR 1910.1200(g) and Appendix D. United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS), third revised edition, United Nations, 2009.

Hazard Communication Standard

United Nations Recommendations on the Transport of Dangerous Goods.

OSHA Permissible Exposure Limit

[29 CFR 1926.55 Appendix A](#)

American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV)

National Institute for Occupational Safety and Health (NIOSH) Recommended Exposure Limit (REL)

Chemical Abstracts Service (CAS) Registry Number

**EU-Regulations**

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

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## SECTION 16: Other information

This document is outside the scope of the article 31 of the REACH)

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

CCNL - Appendix 1

Insert further consulted bibliography

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.

Paragraphs modified from the previous revision: all paragraphs

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.
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.
LTE:	Long-term exposure.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE:	Short-term exposure.
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.
N.A.	no data available