

VALAGRO Safety Sheet
Date: May 03, 2021 Rev. 1.0
Product: Valagro EDTA Zn
Code: 1655
Print Date: May 3, 2021

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: C₁₀H₁₂N₂O₈Zn.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

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

2.1. Classification of the substance or mixture

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

The product is classified as non hazardous according to the Hazardous Substances (Classification) Notice 2017 of the HSNO Act, 1996

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).

Adverse physicochemical, human health and environmental effects:

VALAGRO Safety Sheet
Date: May 03, 2021 Rev. 1.0
Product: Valagro EDTA Zn
Code: 1655
Print Date: May 3, 2021

No other hazards

2.2. Label elements

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

N.A.

3.2. Mixtures

Hazardous components related classification:

None

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-)

Nome	N° EINECS	CAS NUMBER
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 (shower or bath).

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time.

Get medical attention if irritation persists.

In case of Ingestion:

Never give anything by mouth to an unconscious person

Rinse mouth with water and if the person is conscious give plenty of water to drink .

Do not under any circumstances induce vomiting. Get medical attention.

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

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

VALAGRO Safety Sheet
Date: May 03, 2021 Rev. 1.0
Product: Valagro EDTA Zn
Code: 1655
Print Date: May 3, 2021

Contact with skin:
May cause irritation to the skin
Symptoms: redness, itching, pain.
Contact with eyes:
May causes 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

SECTION 5: Firefighting 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 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

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
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.

VALAGRO Safety Sheet
Date: May 03, 2021 Rev. 1.0
Product: Valagro EDTA Zn
Code: 1655
Print Date: May 3, 2021

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

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

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/m³

ACGIH (2003) : recommended value breathable dust: TLV/TWA: 3 mg/m³

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:

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

Respiratory protection:

VALAGRO Safety Sheet
Date: May 03, 2021 Rev. 1.0
Product: Valagro EDTA Zn
Code: 1655
Print Date: May 3, 2021

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

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 ³
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.

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
Avoid heating the product at high temperatures
- 10.5. Incompatible materials
Strong oxidizing agents.

VALAGRO Safety Sheet
Date: May 03, 2021 Rev. 1.0
Product: Valagro EDTA Zn
Code: 1655
Print Date: May 3, 2021

- 10.6. Hazardous decomposition products
In case of fire and high temperatures can develop carbon oxides, nitrogen oxides.

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)

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

SECTION 13: Disposal considerations

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

VALAGRO Safety Sheet
Date: May 03, 2021 Rev. 1.0
Product: Valagro EDTA Zn
Code: 1655
Print Date: May 3, 2021

Packaging: Dispose according to 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
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.

SECTION 15: Regulatory information

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

New Zealand

Classification : Classified as non-hazardous according to HSNO Act 1996; Hazardous Substances (Classification) Notice 2017.

National Chemical Inventory (NZIoC)

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

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:

VALAGRO Safety Sheet
Date: May 03, 2021 Rev. 1.0
Product: Valagro EDTA Zn
Code: 1655
Print Date: May 3, 2021

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