

SAFETY DATA SHEET

Valagro EDTA Cu

Date of Issue: August 2016

1. IDENTIFICATION

Product Identifier:	Valagro EDTA Cu
Other Means of Identification:	Disodium [[N,N'-ethylenebis[N-carboxymethyl] glycinato]](4-)-N,N', O, O', ON, ON']cuprate(2-).
Recommended Use of the Chemical and Restrictions on Use:	Fertiliser
Details of Manufacturer or Importer:	Campbells Fertilisers Australasia 18 Raymond Road, Laverton North, Victoria, 3026 Phone: (03) 9931 2211 Fax: (03) 9931 2201 www.campbellsfert.com.au
Emergency Telephone Number:	(03) 9931 2211 (business hours only 8.30 am to 5.00 pm) 0418 350 726 (after business hours)

2. HAZARD(S) IDENTIFICATION



Pictogram: Exclamation Mark

GHS Hazard Class and Category:

Acute Toxicity Oral Category 4: "Warning"

Hazard statement: H302 Harmful if swallowed

Eye Damage Category 1: "Warning"

Hazard statement: H319 Causes serious eye irritation

Precautionary Statements:

Prevention

P264 Wash hands thoroughly after handling

P270 Do not eat, drink or smoke when using this product.

P280 Wear eye protection/face protection

Response

P301 + P312 IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.

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

P330 Rinse mouth

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P337+P313 If eye irritation persists: get medical advice/attention

Storage

No additional information

Disposal

P501 Dispose of contents/container in accordance with local/regional/national regulations

ADG

Classification: Based on available information, not classified as a Dangerous Good under the Australian Code for the Transport of Dangerous Goods by Road and Rail, 7th Edition

SUSMP

Classification: Schedule 6

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Component:	CAS Number:	Proportion (%w/w):
Copper EDTA	14025-15-1	90-97
Water	7732-18-5	10-3

4. FIRST AID MEASURES

Description of Necessary First Aid Measures:

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

Skin Contact: Take off all contaminated clothing immediately. Areas of the body that have or are suspected of having come into contact with the product must be rinsed immediately with plenty of running water and soap. Wash the body thoroughly in a shower or bath. Dispose of contaminated clothing safely.

Eye Contact: Rinse with plenty of water with the eyelids held open for a sufficient length of time, then consult an ophthalmologist immediately. Protect uninjured eye.

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.

First Aid Facilities: Ensure washing facilities, including an eyewash, are available and maintained.

Advice: Persons providing first aid must use personal protection equipment (latex gloves and safety glasses).

Symptoms caused by Exposure:

Inhalation: May cause irritation of respiratory tract. Cough, shortness of breath

Skin Contact: May cause irritation to the skin. Redness, itching, pain

Eye Contact: Causes eye irritation. Pain, redness

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Ingestion: The product dissolved in water or in the presence of moisture causes an acid reaction, and if swallowed, can cause irritation and burns of the mouth, throat and digestive tract. Vomiting, abdominal pain, gastrointestinal disorders.

Medical Attention and Special Treatment:

If exposed, concerned or if symptoms persist, get medical attention/advice. If medical advice is needed, have product container or label at hand.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Equipment: Water, carbon dioxide (CO₂)

Specific Hazards arising from the Chemical: Do not inhale explosion and combustion gases. Burning produces heavy smoke containing carbon oxides, nitrogen oxides.

Special Protective Equipment and Precautions for Fire Fighters: Use 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

6. ACCIDENTAL RELEASE MEASURES

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 total skin protection, nitrile rubber gloves, safety glasses and mask with P2 filter.
- Keep people not involved in the emergency intervention away from the affected area.
- Ensure adequate ventilation, move people to a safe place.
- Alert the internal emergency team

For emergency responders:

- Wear protective clothes giving total skin protection, nitrile rubber gloves, safety glasses and mask with P2 filter.
- Ensure adequate ventilation, move people to a safe place.
- Avoid dust generation
- Dusts at sufficient concentrations can form explosive mixtures with air.
- Avoid any accumulation of electrostatic charge
- See protective measures in section 8

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Environmental Precautions:	Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated wash water and dispose of it in an approved landfill. If possible, collect in clean plastic labelled containers and reuse as fertilizer. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Suitable material for collection includes absorbing material, soil, sand
Methods and Materials for Containment and Clean Up	Collect the product for example using a shovel and broom. Avoid raising dust. Wash with plenty of water, contain the spill with absorbent material, earth or sand.

7. HANDLING AND STORAGE

Precautions for Safe Handling:	Avoid contact with skin and eyes, inhalation of vapours and mists. Do not use empty container before they have been cleaned. Before transferring product, ensure there are no incompatible material residuals in the containers. Contaminated clothing should be changed before entering eating areas. Do not drink or eat in work areas. See section 8 for recommended protective equipment.
Conditions for Safe Storage including any Incompatibilities:	Keep in original containers tightly closed in a well-ventilated area, far from humidity and heat sources. Keep away from food, drink and feed. Incompatible materials: strong oxidants. Adequately ventilate premises.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards:	Substance name	OSHA PEL	Cal/OSHA PEL 8-hr TWA (ST) STEL (C) Ceiling TLV-STEL	NIOSH REL Up to 10-hr TWA (ST) STEL (C) Ceiling	ACGIH 2015 TLV
	Copper (powder and smoke as Cu)	1 mg/m ³	1 mg/m ³	1 mg/m ³	1 mg/m ³

ACGIH (2003): recommended value inhalable dust: TLV/TWA: 10 mg/m³
 ACGIH (2003): recommended value breathable dust: TLV/TWA: 3 mg/m³

DNEL:

Workers:

Inhalation exposure to long-term systemic effects

DNEL: 1.8 mg/m³

Skin systemic effects long term exposure

DNEL 3750 mg/kg body weight /day

General population:

Inhalation exposure to long-term systemic effects

DNEL: 0.45 mg/m³

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Skin systemic effects long term exposure
 DNEL 1875 mg/kg body weight /day
 Oral systemic effects long-term exposure
 DNEL 0.375 mg/kg body weight /day

PNEC:

PNEC (freshwater) = 2.95 mg/L
 PNEC aqua (sea water) = 0.3 mg/L
 PNEC aqua (intermittent release) = 1.09 mg/L
 PNEC STP = 65.4 mg/L
 PNEC soil - Risk to terrestrial organisms = 0.21 mg/kg dw soil

Biological Monitoring: Not available

Control Banding: Not available.

Engineering Controls: Operate in well ventilated areas.

Individual Protection Measures e.g. Personal Protective Equipment (PPE):

Eye and Face Protection:
 Use close fitting safety goggles according to the standard EN166. Do not use contact lenses.

Skin Protection:
 In case of permanent (>480 min) and direct contact, wear 100% nitrile rubber gloves according to the standard EN374. Use clothing that provides comprehensive skin protection, e.g. cotton, rubber, PVC or viton.

Respiratory Protection:
 Use dust mask with P2 filters according to the EN149: 2001 if conditions warrant. Respect the occupational exposure limits.

Thermal Hazards:
 None known.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Blue microgranules
Odour:	Odourless
Vapour Pressure (mm Hg):	Not applicable, solid
Apparent Density:	0.8-0.9 kg/dm ³
Boiling Point:	Not applicable, solid
Freezing/Melting Point:	Decomposes before melting
Solubility (aqueous solution):	1200 g/L at 20°C
Specific Gravity:	Not available
pH:	4.5 (1% at 20°C)
Flash Point:	Not applicable, solid
Flammability (explosive) Limits:	Not applicable, does not have explosive properties
Auto-Ignition Temperature:	Not available
Octanol/Water Partition Coefficient:	Not available

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10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal conditions of storage and handling
Possibility of Hazardous Reactions:	It reacts with strong oxidizing agents. Contact with hot surfaces may ignite the product.
Conditions to Avoid:	Heating of the product at high temperatures.
Incompatible Materials:	Strong oxidizing agents
Hazardous Decomposition Products:	In case of fire and high temperatures can develop carbon oxides (CO _x) and nitrogen oxides (NO _x)

11. TOXICOLOGICAL INFORMATION

Toxicological Effects:

Acute Toxicity:	LD50 (oral) = 890 mg/kg (test similar to OECD 403) LD50 (dermal, rat) > 2000 mg/kg bw (OECD 402 read-across from ethylenediaminetetraacetic acid ferric sodium salt) 4h-LC50 (inhalation) > 5.32 g/m ³ (OECD 436)
Skin Corrosion/Irritation:	Slightly irritating (test on rabbit: 50% aqueous solution, OECD 404)
Serious Eye Damage/Irritation:	Irritating (test on rabbit, OECD 405)
Respiratory or Skin Sensitisation:	Not sensitizing (test on rat, OECD 429 Local Lymph Node Assay)
Germ Cell Mutagenicity:	Not classified
Carcinogenicity:	Non-carcinogenic (read-across from hydrogen 2,2',2'',2' " – (ethan-1,2-diyldinitrilo) tetraacetate)
Reproductive Toxicity:	NOEL reproduction and development ≥ 500 mg/kg bw/day
Specific Target Organ Toxicity (STOT) – Single Exposure:	Not classified
Specific Target Organ Toxicity (STOT) – Repeated Exposure:	Not classified
Aspiration Hazard:	Unlikely event (solid)

Possible Routes Of Exposure:

Inhalation:	Can be irritant for nose and respiratory system.
Skin:	Can be irritant for skin.

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Eye: Is an irritant for eyes.
Ingestion: Can be irritant for mouth and digestive tract.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Aquatic acute toxicity:
 Species: Fish = 555 mg/L. Notes: OECD 203
 Species: Daphnia = 109.2 mg/L. Notes: OECD 202
 Species: Algae = 662.6 mg/L. Notes: OECD 201

Aquatic chronic toxicity:
 Species: Fish = 37.2 mg/L. Notes: OECD 210
 Species: Daphnia = 29.5 mg/L. Notes: OECD 211
 Species: Algae = 43.7 mg/L. Notes: OECD 201

Bacteria toxicity:
 Endpoint: NOEC=654 mg/L Duration h: 3. Notes OECD 209

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

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

Mobility in Soil: No data available

13. DISPOSAL CONSIDERATIONS

Product Disposal: Recover if possible. Dispose of in accordance with state, federal and local regulations.

Container Disposal: Empty containers must be handled according to local regulations.

14. TRANSPORT INFORMATION

Classification: Based on available information, not classified as Dangerous Goods for transport by road or rail according to the Australian Code for the Transport of Dangerous Goods by Road and Rail, 7th Edition.

UN Number: Not applicable

Proper Shipping Name or Technical Name: Not applicable

Transport Hazard Class: Not applicable

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Packing Group: Not applicable
Environmental Hazards for Transport Purposes: Not applicable
Special Precautions for User: Not applicable
HAZCHEM Code: Not applicable

15. REGULATORY INFORMATION

SUSMP: Schedule 6
APVMA: Exempt from registration
State Departments of Agriculture / Primary Industries: Registration not required
Australian Inventory of Chemical Substances (AICS): All components listed

16. OTHER INFORMATION

Edition: Initial edition
Revision Due: August 2021
Reason for Revision: Initial version
Preparation Information: Prepared by Campbells Fertilisers Australasia
Data Sources: Supplier SDS

Glossary:

APVMA Australian Pesticides and Veterinary Medicines Authority
CAS Chemical Abstract Services number, used to uniquely identify chemical compounds
PPE Personal protective equipment
SUSMP Standard for the Uniform Scheduling of Medicines and Poisons

This SDS summarises our best knowledge of the health and safety hazard information available for this product and how to safely handle and use it. Since the use of this information and the conditions of the use of this product are not under the control of Campbell's Fertilisers, it is the user's responsibility to determine conditions of safe use of the product.

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END OF SDS