



SAFETY DATA SHEET

Valagro Kendal TE

Date of Issue: December 2016

1. IDENTIFICATION

Product Identifier:	Valagro Kendal TE
Other Means of Identification:	None
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) Poison Information Centre 13 11 26

2. HAZARD(S) IDENTIFICATION

Classified as Hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001, New Zealand.

Classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2012 Transport of Dangerous Goods on Land.

HSNO Classification:

6.1D (Oral) – Substances that are acutely toxic – Harmful

9.1A (Acute) – Substances that are very ecotoxic in the aquatic environment

9.1B (Chronic) - Substances that are ecotoxic in the aquatic environment

Hazard statement codes

H302 – Harmful if swallowed

H400 – Very toxic to aquatic life

H411 – Toxic to aquatic life with long lasting effects

Precautionary statement codes – Prevention:

P264 – Wash hands thoroughly after handling

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

P273 – Avoid release to the environment

Precautionary statement codes – Response:

P301+P312 – IF SWALLOWED: Call a doctor, a POISON CENTER if you feel unwell

P330 – Rinse mouth

P331 – Do NOT induce vomiting

P391 – Collect spillage

Precautionary statement codes – Disposal:

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P501 – Dispose of contents / container to comply with applicable local, national and international regulation.

Labelling according to Regulation (EC) No. 1272/2008 (CLP)



GHS09



GHS09

Signal word (CLP):

Warning

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:

Exempt from Poison Scheduling

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Component:	CAS Number:	Proportion (%w/w):
Dicopper chloride trihydroxide	(CAS No) 1332-65-6	40 - 50
Zinc Oxide	(CAS No) 1314-13-2	0.5 - 1

Other ingredients not subject to the provisions of the Hazardous Substances (identification) Regulations 2001, make up the product concentration to 100%

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4. FIRST AID MEASURES

Description of Necessary First Aid Measures:

Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of breathing difficulties administer oxygen. In case of irregular breathing or respiratory arrest provide artificial respiration. Obtain medical attention if breathing difficulty persists.
Skin Contact:	Wash skin thoroughly with mild soap and water. If skin irritation occurs: get medical advice/attention.
Eye Contact:	Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Protect uninjured eye. Seek medical attention if irritation develops.
Ingestion:	If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. Immediately call a POISON CENTER or doctor/physician.
First Aid Facilities:	Ensure washing facilities, including an eyewash, are available and maintained.
Advice:	For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126)

Symptoms caused by Exposure:

Inhalation:	Decomposition products may be a hazard to health.
Skin Contact:	Frequent or prolonged contact with skin may cause dermal irritation.
Eye Contact:	May cause slight irritation to eyes.
Ingestion:	Harmful if swallowed. Convulsions. Damage to liver. Damage to central nervous system. Damage to kidneys. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Medical Attention and Special Treatment:

In case of inhalation of fumes: Keep under medical supervision for at least 48 hours. 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 (CO ₂), dry chemical powder
Specific Hazards arising from the Chemical:	Do not inhale fumes. Hazardous decomposition products in case of fire: Hydrogen Chloride
Special Protective Equipment and Precautions for Fire Fighters:	Evacuate the personnel away from fumes Cool down the containers exposed to heat with a water spray. Move undamaged containers from immediate hazard area if it can be done safely. Extra personal protection: complete protective clothing including self-

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contained breathing apparatus
Do not allow run-off from firefighting to enter drains or water courses
Hazchem Code – 2Z

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, gloves and safety glasses
- Keep people not involved in the emergency intervention away from the affected area.
- Ensure adequate ventilation
- Alert the internal emergency team

For emergency responders:

-Wear protective clothes giving total skin protection, latex gloves and safety glasses. Avoid breathing dust/fume/gas/mist/vapours/spray. Spilled material may present a tripping hazard. Evacuate unnecessary personnel.

**Environmental
Precautions:
Methods and
Materials for
Containment
and Cleaning
Up:**

Avoid release to the environment. Relevant water authorities should be notified of any large spillage to water course or drain.

Stop leak if safe to do so.

Ventilate affected area. Wear personal protective equipment. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid – or universal binding agents). Sweep or shovel spills into appropriate container for disposal. Wash with plenty of soap and water. Consult the appropriate authorities about waste disposal. Do not allow uncontrolled discharge of product into the environment.

7. HANDLING AND STORAGE

**Precautions for
Safe Handling:**

Avoid contact with skin and eyes, inhalation of vapors and mists. Keep away from sources of ignition – No smoking. Empty container retains product residue. Take any precaution to avoid mixing with incompatible materials.
Do not eat, drink or smoke when using this product. Wash hands

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Conditions for Safe Storage, including any Incompatibilities:

- thoroughly after handling.
- Contaminated clothing should not be allowed out of the workplace.
- Keep in original containers. Store tightly closed in a dry, cool and well-ventilated place.
- Keep out of direct sunlight.
- Incompatible materials: Bases. Acids.
- Keep away from open flames, hot surfaces and sources of ignition.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Dicopper chloride trihydroxide (1332-65-6) (EU Parameters)	
ADI (Acceptable daily intake)	0.15 mg/kg bw/d
AOEL (acceptable operator exposure level, systemic)	0.072 mg/kg/bw/d
DNEL (Derived No Effect Level) fir copper compounds solutions to slurry	13.7 g/kg bw/d
USA – ACGIH (TLW- TWA for copper fumes)	0.2 mg/m ³

Zinc Oxide (1314-13-2)		
New Zealand	WES TWA (Mg/M ³)	5 mg/m ³
New Zealand	WES STEL (Mg/M ³)	10 mg/m ³

Exposure Standards: See above

Biological Monitoring: Not available.

Control Banding: Not available.

Engineering Controls: Provide adequate ventilation.

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

- Gloves. Protective clothing. Protective goggles.
- Materials for protective clothing; natural fibres (e.g. cotton). Rubbers. PVC (Polyvinyl chloride). Viton.
- Wear suitable gloves tested to EN374 or equivalent. Protective gloves made of neoprene or PVC.
- Eye protection: Tightly fitting goggles according to DIN EN 166 or equivalent.
- Skin and body protection: use chemically protective clothing.
- Respiratory protection: none generally required.

Prohibitions on mixed storage: Keep away from food, drink and animal feeding stuffs.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Green liquid suspension
Odour:	odourless
Vapour Pressure (mm Hg):	No data available
Density:	N/A
Boiling Point:	Not available
Freezing/Melting Point:	Not available
Solubility:	Soluble
Specific Gravity:	1.5g/L
pH:	4.8
Flash Point:	Not available
Flammability (explosive) Limits:	Not expected to be explosive as none of the components are classified as explosive.
Auto-Ignition Temperature:	Not available
Octanol/Water Partition Coefficient:	Not available

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal conditions of storage and handling
Possibility of Hazardous Reactions:	No polymerization
Conditions to Avoid:	Overheating.
Incompatible Materials:	Acids. Bases
Hazardous Decomposition Products:	During a fire: Hydrogen Chloride (HCl)

11. TOXICOLOGICAL INFORMATION

Dicopper chloride trihydroxide (1332-65-6)	
LD50 oral rat	1862 mg/kg bodyweight (OECD 401)
LD50 dermal rat	>2000 mg/kg (OECD 402)
LC50 inhalation rat (Dust/Mist – mg/l/4h)	>2.77 mg/l/4h (males – OECD 403)
Zinc Oxide	
LD50 dermal rat	15000 mg/kg Loser (1972)
LC50 inhalation rat (Dust/Mist – mg/l/4h)	>5.7 mg/l/4h Klimisch et al. (1982)

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Toxicological Effects:

Acute Toxicity:	Oral: Harmful if swallowed
Skin	Not classified pH 7.8 @ 20° C
Corrosion/Irritation:	
Serious Eye	Not classified pH 7.8 @ 20° C
Damage/Irritation:	
Respiratory or Skin	Not classified
Sensitisation:	
Germ Cell	Not classified
Mutagenicity:	
Carcinogenicity:	Not classified
Reproductive	Not classified
Toxicity:	
Specific Target	Not classified
Organ Toxicity	
(STOT) – Single	
Exposure:	
Specific Target	Not classified
Organ Toxicity	
(STOT) – Repeated	
Exposure:	
Aspiration Hazard:	Not classified

Possible Routes Of Exposure:

Inhalation:	Inhalation of the product is unlikely under normal working conditions.
Skin:	May cause irritation to skin according to the contact time with the product.
Eye:	May cause slight irritation to eyes according to the contact time with the product.
Ingestion:	Harmful if swallowed.

12. ECOLOGICAL INFORMATION

Toxicity:

Dicopper chloride trihydroxide (1332-65-6)	
LC50 fish	0.052 mg/l (96h – Oncorhynchus mykiss – OECD 203)
EC50 Daphnia	0.29 mg/l (48h – Daphnia Magna – OECD 210)
NOEC Daphnia	0.0076 mg/l (21d – Daphnia Magna – semi static)
EbC50 (algae)	52.3 mg/l (72h Selenastrum capricornutum – OECD 201)
ErC50 (algae)	197.9 mg/l (72h Selenastrum capricornutum – OECD 201)
Zinc oxide (1314-13-2)	
EC50 Daphnia	0.83 mg/l (48h – Ceriodaphnia Dubia – pH < 7 – Hyne et al 2005)

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EC50 72h algae	0.27 mg/l (72h – Selenastrum capricornutum – pH 7 – 8.5 OECD 201 Van Ginneken 1994)
NOEC (Chronic)	0.02 mg/l

Ecotoxicity:	Adopt good working practices so that the product is not released to the environment.
Persistence and Degradability:	<p>Dicopper chloride trihydroxide (1332-65-6). Persistence and degradability: Not readily biodegradable. No Hydrolysis or abiotic degradation is expected.</p> <p>Zinc oxide (1314-13-2) Persistence and degradability: Not readily biodegradable. No Hydrolysis or abiotic degradation is expected.</p>
Bioaccumulative Potential:	<p>Dicopper chloride trihydroxide (1332-65-6). Bioaccumulative potential: not applicable because of low water solubility</p> <p>Zinc oxide (1314-13-2) Bioaccumulative potential: No bioaccumulation.</p>
Mobility in Soil:	<p>Dicopper chloride trihydroxide (1332-65-6). Ecology – soil: Low mobility (soil)</p> <p>Zinc oxide (1314-13-2) Log Koc: 2.2</p>

13. DISPOSAL CONSIDERATIONS

Product Disposal:	Recover if possible. In doing so, comply with state, federal and local regulations.
Container Disposal:	Dispose of according to local regulations.

14. TRANSPORT INFORMATION

Classification:	Based on available information, is 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, 7 th Edition.
UN Number:	3082
Proper Shipping Name or Technical Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Dicopper chloride trihydroxide, Zinc oxide)
Transport Hazard Class:	9
Packing Group:	III
Environmental Hazards for Transport	<p>Dangerous for the environment: Yes</p> <p>Marine pollutant: Yes</p> <p>Other information: No supplementary information available.</p>

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Purposes:

Special Precautions for User: Not applicable

HAZCHEM Code: 2Z

15. REGULATORY INFORMATION

SUSMP:	Exempt from Poison Scheduling
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: December 2016

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.

END OF SDS