

VALAGRO SDS

Date: December 06, 2021 version number: 1.0

Product: Kendal TE

Code: 2313

Print Date: December 6, 2021

SAFETY DATA SHEET

Kendal TE

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

1.1. Product identifier

Product form : Mixture
Trade name : Kendal TE
Product code : 2313

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Fertilizer

1.2.2. Uses advised against

No additional information available

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

2.1. Classification of the substance or mixture

HSNO Classification:

6.1C (Oral) - Substances that are acutely toxic – Toxic

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

Hazard statement codes

H301 - Toxic if swallowed

H410 - Very toxic to aquatic life with long lasting effects

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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+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor
- P321 - Specific treatment (see supplemental first aid instruction on this label).
- P330 - Rinse mouth
- P331 - Do NOT induce vomiting.
- P391 - Collect spillage

Precautionary statement codes – Disposal:

- P405 - Store locked up.

Precautionary statement codes – Disposal:

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

2.2. Label elements

Hazard pictograms (CLP) :  

Signal word (CLP) : Danger

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
 This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Cas No.	%	Approval Status (NZIoC)
Dicopper chloride trihydroxide	(CAS No) 1332-65-6	40 - 50	HSNO Approval Code HSR003766
Zinc oxide	(CAS No) 1314-13-2	0.5 - 1	HSNO Approval Code HSR003104

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Name	Cas No.	%	Approval Status (NZIoC)
Other ingredients not subject to the provisions of the Hazardous Substances (identification) Regulations 2001, make up the product concentration to 100%			

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after 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.
- First-aid measures after skin contact : Wash skin thoroughly with mild soap and water. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after 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.
- First-aid measures after 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.
- Other information : For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after inhalation : Decomposition products may be a hazard to health.
- Symptoms/injuries after skin contact : Frequent or prolonged contact with skin may cause dermal irritation.
- Symptoms/injuries after eye contact : May cause slight irritation to eyes.
- Symptoms/injuries after ingestion : Harmful if swallowed. Convulsions. Damage to liver. Damage to central nervous system. Damage to kidneys. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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

In case of inhalation of fumes : Keep under medical supervision for at least 48 hours.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Carbon dioxide (CO₂). Water. dry chemical powder.
- Unsuitable extinguishing media : None known.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Do not breathe fumes.

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Hazardous decomposition products : Hydrogen chloride.
in case of fire

5.3. Advice for firefighters

Precautionary measures fire : Evacuate the personnel away from the fumes.

Firefighting instructions : Cool down the containers exposed to heat with a water spray. Move undamaged containers from immediate hazard area if it can be done safely.

Protective equipment for firefighters : Extra personal protection: complete protective clothing including self-contained breathing apparatus.

Other information : Do not allow run-off from fire fighting to enter drains or water courses.

Hazchem Code : 2Z

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****6.1.1. For non-emergency personnel**

Protective equipment : Do not attempt to take action without suitable protective equipment. Wear personal protection equipment.

Emergency procedures : Immediately contact emergency personnel. Eliminate all ignition sources if safe to do so. Provide adequate ventilation.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing, gloves and eye/face protection. Avoid breathing dust/fume/gas/mist/vapours/spray. Spilled material may present a slipping hazard.

Emergency procedures : Evacuate unnecessary personnel.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

For containment : Stop leak if safe to do so.

Methods for cleaning up : Ventilate affected area. Wear personal protection 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.

Other information : Do not allow uncontrolled discharge of product into the environment.

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6.4. Reference to other sections

For disposal of residues refer to section 13: Disposal considerations. For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Precautions for safe handling : Avoid contact with skin and eyes. Avoid breathing mist or vapor . Keep away from sources of ignition - No smoking. Empty container retains product residue. Take any precaution to avoid mixing with Incompatible materials.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep in original containers. Store tightly closed in a dry, cool and well-ventilated place. Keep out of direct sunlight.

Incompatible materials : Bases. Acids.

Heat and ignition sources : Keep away from open flames, hot surfaces and sources of ignition.

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

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

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

8.2. Exposure controls

Appropriate engineering controls : Provide adequate ventilation.

Personal protective equipment : Gloves. Protective clothing. Protective goggles.

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Materials for protective clothing	: Natural fibres (e.g. cotton). Rubbers. PVC (Polyvinyl chloride). Viton
Hand protection	: Wear suitable gloves tested to EN374. Protective gloves made of neoprene or PVC
Eye protection	: Tightly fitting safety goggles. DIN EN 166
Skin and body protection	: Use chemically protective clothing
Respiratory protection	: None generally required.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state	: Liquid
Appearance	: Suspension.
Colour	: green.
Odour	: odourless.
Odour threshold	: No data available
pH	: 7.8 @ 20 °C
pH solution	: 8.4 (1%) @ 20 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available

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Density	: 1.5 kg/l
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Not expected to be explosive as none of the components is classified as explosive.
Oxidising properties	: None of the components are classified for oxidizing properties.
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity**10.1. Reactivity**

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No polymerization.

10.4. Conditions to avoid

Overheating.

10.5. Incompatible materials

Acids. Bases.

10.6. Hazardous decomposition products

During a fire: Hydrogen chloride (HCl).

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

Acute toxicity : Oral: Toxic if swallowed.

Dicopper chloride trihydroxide (1332-65-6)	
LD50 oral rat	1398 mg/kg bodyweight (OECD 401)
LD50 dermal rat	> 2000 mg/kg (OECD 402)

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Dicopper chloride trihydroxide (1332-65-6)

LC50 inhalation rat (Dust/Mist - mg/l/4h)	>2.83 mg/l/4h (males - OECD 403)
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Zinc oxide (1314-13-2)

LD50 oral rat	15000 mg/kg Löser (1972)
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 5.7 mg/l/4h Klimisch et al. (1982)

Skin corrosion/irritation : Not classified
pH: 7.8 @ 20 °C

Serious eye damage/irritation : Not classified
pH: 7.8 @ 20 °C

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. 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)
EbC50 (algae)	56.3 mg/l (72h - Selenastrum capricornutum - OECD 201)

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Zinc oxide (1314-13-2)	
EC50 Daphnia	0.83 mg/l (48h - Ceriodaphnia Dubia - pH < 7 - Hyne et al 2005)
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

12.2. Persistence and degradability

Dicopper chloride trihydroxide (1332-65-6)	
Persistence and degradability	Not readily biodegradable. No hydrolysis or abiotic degradation is expected.
Zinc oxide (1314-13-2)	
Persistence and degradability	The methods for determining the biological degradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential

Dicopper chloride trihydroxide (1332-65-6)	
Bioaccumulative potential	Not applicable because of low water solubility

Zinc oxide (1314-13-2)	
Bioaccumulative potential	No bioaccumulation.

12.4. Mobility in soil

Dicopper chloride trihydroxide (1332-65-6)	
Ecology - soil	Low mobility (soil).

Zinc oxide (1314-13-2)	
Log Koc	2.2

12.5. Results of PBT and vPvB assessment

12313	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
Results of PBT assessment	The components in this formulation do not meet the criteria for classification as PBT or vPvB.

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12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations



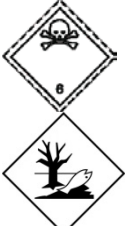
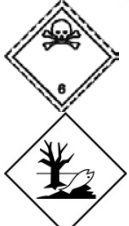
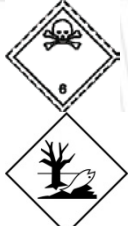
13.1. Waste treatment methods

Waste treatment methods : Reuse or recycle following decontamination. External recovery and recycling of waste should comply with applicable local and/or national regulations.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN / NZS 5433:2012 Transport of Dangerous Goods on Land.

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
3287	3287	3287	3287	3287
14.2. UN proper shipping name				
TOXIC LIQUID, INORGANIC, N.O.S.(dicopper chloride tri-hydroxide; Zinc oxide)	TOXIC LIQUID, INORGANIC, N.O.S.(dicopper chloride tri-hydroxide; Zinc oxide)	TOXIC LIQUID, INORGANIC, N.O.S.(dicopper chloride tri-hydroxide; Zinc oxide)	TOXIC LIQUID, INORGANIC, N.O.S.(dicopper chloride tri-hydroxide; Zinc oxide)	TOXIC LIQUID, INORGANIC, N.O.S.(dicopper chloride tri-hydroxide; Zinc oxide)
14.3. Transport hazard class(es)				
6.1	6.1	6.1 (9)	6.1	6.1
				
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
No supplementary information available				

14.6. Special precautions for user

ADR-Subsidiary risks: Pericoloso per l'ambiente acquatico
 ADR-S.P.: 274
 ADR-Categoria di trasporto (Codice di restrizione in galleria): 2 (E)
 IATA-Passenger Aircraft: 655
 IATA-Subsidiary risks: -

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IATA-Cargo Aircraft: 663
 IATA-S.P.: A3 A4 A137
 IATA-ERG: 6L
 IMDG-EMS: F-A , S-A
 IMDG-Subsidiary risks: -
 IMDG-Stowage and handling: Category A SW2
 IMDG-Segregation: -

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

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

New Zealand

Classification: : Classified as hazardous according to the Hazardous Substances (Classification) Notice 2020, New Zealand.

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

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out: **Dicopper chloride trihydroxide (1332-65-6), Zinc oxide (1314-13-2)**

SECTION 16: Other information

SDS	Safety Data Sheet
CAS	Chemical Abstracts Service
GHS	Globally Harmonised System
CSR	Chemical Safety Report
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level

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NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
RID	Regulations concerning the International Carriage of Dangerous Goods by Rai
PVC	(Polyvinyl chloride).
PNEC	Predicted No-Effect Concentration
PBT	Persistent Bioaccumulative Toxic
vPvB	Very Persistent and Very Bioaccumulative
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

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Other information

: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. It is the user's responsibility to take the mentioned precautionary measures and to ensure that this information is complete and sufficient for the use of this product.