

VALAGRO Safety Sheet  
Date: March 26, 2020 Rev. 1.0  
Product: Kendal ROOT  
Code: 12540  
Print Date: 26 March 2020

## **SAFETY SHEET**

### **Kendal ROOT**

#### **1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

##### 1.1. Product Identifier

Mixture identification:

Trade name: Kendal ROOT  
Trade code: 12540

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

Recommended use:

Fertilizer

##### 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)

#### **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).

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Adverse physicochemical, human health and environmental effects:  
No other hazards

2.2. Label elements

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

N.A.

3.2. Mixtures

N.A.

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### 4. FIRST AID MEASURES

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not under any circumstances induce vomiting. 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

Inhalation:

The inhalation of the product is unlikely under normal working conditions;

Eyes and skin:

May cause irritation to skin and eyes according to the contact time with the product

Ingestion:

may cause irritation to the gastrointestinal tract

Symptoms:

eyes: burning sensation, pain

Ingestion: nausea, vomiting, diarrhea

skin: redness, irritation

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

Treatment:

None

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### 5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:

Water.

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

chemical powder fire extinguishers

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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 nitrogen oxides (NO<sub>x</sub>), ammonia (NH<sub>3</sub>).
- 5.3. Advice for fire-fighters  
Use suitable 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.

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## 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  
Alert the internal emergency team.  
Keep away from the affected area people not involved in the emergency intervention.  
Ensure adequate ventilation, move people in a safe place.  
For emergency responders:  
Wear protective clothes giving a total skin protection, latex gloves, safety glasses  
See protective measures under point 7 and 8.  
Ensure adequate ventilation, move people in a safe place.
- 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, organic, sand
- 6.3. Methods and material for containment and cleaning up  
Wash with plenty of water.  
Suitable material for taking up: absorbing material, organic, sand
- 6.4. Reference to other sections  
See also section 8 and 13

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## 7. HANDLING AND STORAGE

- 7.1. Precautions for safe handling  
Avoid contact with skin and eyes, inhalation of vapours and mists.  
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 acids and bases, oxidants.  
Instructions as regards storage premises:  
Adequately ventilated premises.
- 7.3. Specific end use(s)  
N.A.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

N.A.

### 8.2. Exposure controls

#### Eye protection:

Use close fitting safety goggles according to EN 166, don't use eye lens.

#### Protection for skin:

Wear protective clothing.

#### Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber according to EN374.

#### Respiratory protection:

Not needed for normal use.

#### Thermal Hazards:

N.A.

#### Environmental exposure controls:

N.A.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance and colour: brown liquid suspension

pH: 6.7

Density: 1,2 Kg/dm<sup>3</sup>

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## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

Stable under normal conditions of use and storage

### 10.2. Chemical stability

Stable under normal conditions of use and storage

### 10.3. Possibility of hazardous reactions

The product can release gaseous ammonia if in contact with alkaline substances such as lime

### 10.4. Conditions to avoid

Avoid high temperatures

### 10.5. Incompatible materials

acidic or basic, oxidants.

### 10.6. Hazardous decomposition products

The product can release gaseous ammonia if in contact with alkaline substances such as lime  
Thermal decomposition may produce nitrogen oxides (NO<sub>x</sub>), ammonia (NH<sub>3</sub>).

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## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Most important symptoms and effects, both acute and delayed

#### Inhalation:

The inhalation of the product is unlikely under normal working conditions;

#### Eyes and skin:

May cause irritation to skin and eyes according to the contact time with the product

#### Ingestion:

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may cause irritation to the gastrointestinal tract  
Symptoms:  
eyes: burning sensation, pain  
Ingestion: nausea, vomiting, diarrhea  
skin: redness, irritation

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## 12. ECOLOGICAL INFORMATION

- 12.1. Toxicity  
Adopt good working practices, so that the product is not released into the environment.
- 12.2. Persistence and degradability  
N.A.
- 12.3. Bioaccumulative potential  
N.A.
- 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 known

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## 13. DISPOSAL CONSIDERATIONS

- 13.1. Waste treatment methods
  - Product: Recover if possible. Operate according to local and national laws.  
Contact local authorities who will provide guidance regarding the disposal of special waste.
  - Packaging: Dispose according to current regulations

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## 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
  - ADR-Environmental Pollutant: No
  - 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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## 15. REGULATORY INFORMATION

### New Zealand

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

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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

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## 16. OTHER INFORMATION

This document was prepared by a competent person who has received appropriate training. 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.

N.A.: no data available

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.

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LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
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.