

SAFETY DATA SHEET

Valagro Retrosal

Date of Issue: April 2016

1. IDENTIFICATION

Product Identifier:	Valagro Retrosal
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)

2. HAZARD(S) IDENTIFICATION



Pictogram: Corrosion

GHS Hazard Class and Category:

Eye Damage Category 1: "Danger"

Hazard statement: H318 Causes serious eye damage

Precautionary Statements:

Prevention

P280 Wear eye protection/face protection

Response

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

P310 Immediately call a POISON CENTRE or doctor/physician

Storage

No additional information

Disposal

No additional information

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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: Not scheduled

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Component:	CAS Number:	Proportion (%w/w):
Calcium ammonium nitrate	15245-12-2	20-25

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: If inhaled, especially at high temperatures, the vapours may be very irritating or corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Skin Contact: No known significant effects.

Eye Contact: Can cause eye damage. Pain, redness, tearing

Ingestion: May cause burns to mouth throat and stomach. Abdominal pain, confusion, convulsions, nausea, dizziness. In case of ingestion of large amounts, NO₃-ions contained in the product can oxidize the iron atoms in haemoglobin making it unable to carry oxygen effectively to the tissues (methaemoglobinemia).

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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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Equipment:	Water, carbon dioxide (CO ₂) Do NOT use chemical extinguishers or foam or attempt to smother the fire with steam or sand.
Specific Hazards arising from the Chemical:	Do not inhale explosion and combustion gases. Burning produces smoke containing nitrogen oxides, sulfur oxides.
Special Protective Equipment and Precautions for Fire Fighters:	Use suitable breathing apparatus, protective clothing, eye protection and gloves resistant to chemicals according to EN469 and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. 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. In case of entry into waterways, soil or drains, inform the responsible authorities. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:	<p>For non-emergency personnel:</p> <ul style="list-style-type: none"> - 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. -Eliminate all ignition sources, ensure adequate ventilation. -Alert the internal emergency team <p>For emergency responders:</p> <ul style="list-style-type: none"> -Wear protective clothes giving total skin protection, PVC gloves and safety glasses. -Remove people to safety. -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. Dilute with water and retain contaminated wash water and dispose of it in authorized facilities or pick up in clean plastic labelled containers and reuse as fertilizer. In case of seepage into waterways, soil or sewage system, inform the responsible authorities. Suitable material for collection includes inert absorbent material, sand. Avoid organic materials and combustible substances (such as sawdust)
Methods and Materials for Containment and Clean Up	Wash with plenty of water. Collect the product in clean plastic labelled containers and reuse as fertilizer or dispose in authorized facilities. Material suitable for collecting: inert and non-combustible absorbent material. In case of spills, cover drains.

7. HANDLING AND STORAGE

Precautions for Safe Handling:	Avoid contact with skin and eyes, inhalation of vapours and mists. Exercise the greatest care when handling or opening the container. 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 cool and well-ventilated area, away from heat sources, direct sunlight, food, drink and feed and incompatible materials. Incompatible materials: reducing agents, alkalis, combustible materials, zinc, copper (see section 10). Adequately ventilate premises. Do not mix with other fertilizers containing nitrates.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards:	No occupational exposure limit is available for the mixture.
	<u>Calcium ammonium nitrate:</u>
	DNEL Exposure Limit Values:
	Consumer: 8.3 mg/kg; Exposure: human oral; Frequency: long term, systemic effects
	Worker Industry: 13.9 mg/kg; Consumer: 8.3 mg/kg; Exposure: human dermal; Frequency: long term, systemic effects
	Worker Industry: 98 ppm; Consumer: 25.2 ppm; Exposure: human inhalation; Frequency: long term, systemic effects
	PNEC Exposure Limit Values:
	Target: Freshwater = 0.45 mg/L
	Target: Marine water = 0.045 mg/L
	Target: Microorganisms in sewage treatments = 18 mg/L
	Intermittent releases = 4.5 mg/L

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Biological Monitoring:	Not available
Control Banding:	Not available.
Engineering Controls:	Not available.
Individual Protection Measures e.g. Personal Protective Equipment (PPE):	<p><i>Eye and Face Protection:</i> Use close fitting safety goggles according to the standard EN166. Do not use contact lenses.</p> <p><i>Skin Protection:</i> Use protective gloves that provide comprehensive protection e.g. PVC, neoprene or rubber according to the standard EN374. Use clothing that provides comprehensive skin protection, e.g. cotton, rubber, PVC or viton.</p> <p><i>Respiratory Protection:</i> Not needed for normal use.</p> <p><i>Thermal Hazards:</i> None known.</p>

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Brown liquid
Odour:	Not available
Vapour Pressure (mm Hg):	Not available
Apparent Density:	1.3 kg/dm ³ at 20°C
Boiling Point:	>100°C
Freezing/Melting Point:	Not available
Solubility (aqueous solution):	soluble
Specific Gravity:	Not available
pH:	2.4
Flash Point:	Not available
Flammability (explosive) Limits:	Not available
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:	None
Conditions to Avoid:	Heating of the product at high temperatures which induces thermal decomposition; the product may release hazardous substances such as nitrogen oxides (NO _x) and sulfur oxides (SO _x).
Incompatible	Reducing agents, alkalis, combustible materials, zinc, copper

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Materials:

Hazardous Decomposition Products: In case of high temperatures: sulfur oxides (SO_x) and nitrogen oxides (NO_x)

11. TOXICOLOGICAL INFORMATION

Toxicological Effects: No information on the mixture is available.
Toxicological information below is for the main substance found in the mixture: Calcium ammonium nitrate

Acute Toxicity: LD50 (oral, rat) = 500 mg/kg (OECD 423)
LD50 (dermal, rat) > 2000 mg/kg bw (OECD 402)

Skin Corrosion/Irritation: Non-irritating to the skin

Serious Eye Damage/Irritation: Can cause eye damage (rabbit, OECD 405)

Respiratory or Skin Sensitisation: Skin: No known significant effects or critical hazards
Respiratory: Not determined

Germ Cell Mutagenicity: No mutagenic effect

Carcinogenicity: No carcinogenic effect

Reproductive Toxicity: Oral 28 d, rat ≥ 1500 mg/kg bw/day OECD 422, with potassium nitrate subacute toxicity:
Oral, 28 d ≥ 1000 mg/kg bw/day OECD 407, with potassium nitrate

Specific Target Organ Toxicity (STOT) - Single Exposure: No data available

Specific Target Organ Toxicity (STOT) - Repeated Exposure: No data available

Aspiration Hazard: No data available

Possible Routes Of Exposure:

Inhalation: May give off gas, vapour or dust that is very irritating or corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. Symptoms may include cough, shortness of breath.

Skin: No known significant effects or critical hazards; may cause irritation to the skin. Adverse symptoms may include pain or irritation, redness, blistering.

Eye: Can cause eye damage. Adverse symptoms may include pain, redness, tearing.

Ingestion: May cause burns to mouth, throat and stomach. Symptoms may include stomach pains. In case of ingestion of large amounts, NO₃-ions contained in the product can oxidize the iron atoms in haemoglobin making it unable to carry oxygen effectively to the tissues (methaemoglobinemia)

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12. ECOLOGICAL INFORMATION

Ecotoxicity:	<p><u>Calcium ammonium nitrate</u> Aquatic acute toxicity: LC50 Fresh water Fish 48 h = 447 mg/L EC50 Fresh water Daphnia 48 h >100 mg/L EC50 Fresh water Algae 72 h >100 mg/L</p> <p>Inhibition of microbial activity: 3-hour EC50 > 1000 mg/L; NOEC: 180 mg/L PNEC: water: 0.45 mg/L; seawater: 0.045 mg/L</p>
Persistence and Degradability:	Not relevant for inorganic substances (calcium ammonium nitrate)
Bioaccumulative Potential:	The mixture does not contain any bioaccumulative component
Mobility in Soil:	The product is soluble and mobile in both terrestrial and aquatic compartments

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, 7 th Edition.
UN Number:	Not applicable
Proper Shipping Name or Technical Name:	Not applicable
Transport Hazard Class:	Not applicable
Packing Group:	Not applicable
Environmental Hazards for Transport Purposes:	Not applicable
Special Precautions for User:	Not applicable
HAZCHEM Code:	Not applicable

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15. REGULATORY INFORMATION

SUSMP:	Not scheduled
APVMA:	Exempt from registration
State Departments of Agriculture / Primary Industries:	Registration not required
Australian Inventory of Chemical Substances (AICS):	All components listed
Toxic Substance – NZ	Exempt

16. OTHER INFORMATION

Edition:	Initial edition
Revision Due:	April 2021
Reason for Revision:	Initial version
Preparation Information:	Prepared by Campbells Fertilisers Australasia
Data Sources:	Supplier SDS
Trademark Information:	Aqua-Fert is a Registered Trademark of Campbells Fertilisers Australasia

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