


Pacificvet Vitamins & Electrolytes for Poultry®

Section 1: Identification of the Substance and Supplier

Product name:	Pacificvet Vitamins & Electrolytes for Poultry
Other name:	V&E for Poultry
ACVM Registration:	Exempt
Recommended use:	Poultry nutritional supplement
Company details:	Pacificvet Limited
Address:	3 Hickory Place Hornby 8042 Christchurch New Zealand
Telephone number:	+64 3 349 8438 (business hours 8:30 am to 5:00 pm)
Emergency telephone:	Pacificvet Limited: 0508 388 388 National Poisons Centre: 0800 764 766 (0800 POISON)
Date of Preparation:	15th June 2018

Section 2: Hazard Identification

Hazard classifications:	<p>HSNO classification Animal Nutritional and Animal Care Products Group Standard 2017 HSNO Approval: HSR002521 6.1D oral 6.1D dermal 6.1D inhalation 6.3B skin irritant 6.4A eye irritant 6.8B Suspected human reproductive or development toxicant 6.9B Harmful to human target organs (repeat exposure oral) 9.3B terrestrial vertebrate toxicity</p> <p>Not a Dangerous Good according to IATA or the NZTA. Hazchem code: 2Z (recommended)</p>
Pictograms:	
Signal words:	Warning
Hazard statements:	<p>H302 Harmful if swallowed H312 Harmful in contact with skin H332 Harmful if inhaled H319 Causes serious eye irritation H316 Causes mild skin irritation H361 Suspected of damaging fertility or the unborn child if repeatedly ingested H373 May cause damage to organs through prolonged or repeat exposure via ingestion H432 Toxic to terrestrial vertebrates</p>

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Section 2: Hazard Identification (continued)

<p>Precautionary statements:</p>	<p>For Animal Treatment</p> <p>P102 Keep out of the reach of children</p> <p>P103 Read label before use</p> <p>P202 Do not handle until all safety precautions have been read and understood</p> <p>P280 Wear protective gloves, face protection (dust mask) and protective clothing</p> <p>P273 Avoid release to environment</p>
<p>Prevention statements:</p>	<p>P101 If medical advice is needed, have the product container or label at hand</p> <p>P102 Keep out of the reach of children</p> <p>P103 Read label before use</p> <p>P202 Do not handle until all safety precautions have been read and understood</p> <p>P260 Do NOT breathe dust</p> <p>P264 Wash hands thoroughly after handling</p> <p>P270 Do not eat, drink or smoke when using the product</p> <p>P271 Use only outdoors or in a well-ventilated area</p> <p>P280 Wear protective gloves, face protection (dust mask) and protective clothing</p> <p>P273 Avoid release to environment</p>
<p>Response statements:</p>	<p>P101 If medical advice is needed, have product container or label at hand.</p> <p>P301 + P330 + P312 IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>P302 + P352, P332 + P313, P312 IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>P363 Wash contaminated clothing before reuse.</p> <p>P304 + P340, P312 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>P305 + P351 + P338, P337 + P313 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.</p> <p>H361, P308 + P313 Suspected of damaging fertility or the unborn child if repeatedly ingested. If exposed or concerned: Get Medical advice/attention.</p> <p>H373 May cause damage to organs through prolonged or repeat exposure. Get medical advice/attention if you feel unwell.</p> <p>P391 Collect spillage</p>
<p>Storage statements:</p>	<p>P404 Store in closed container. P102 Keep out of the reach of Children. This substance does not require a certified handler. This substance is subject to a Hazardous Substance Emergency Response Plan when greater than 1000kg are held on site (60 x 18 kg buckets)</p>
<p>Disposal statements:</p>	<p>P501 Product must be disposed of through an appropriate hazardous waste company. Containers may be recycled if they are clean and free of any harmful residue.</p>

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Section 3: Composition

Substance characterisation:	Beige fine powder		
Product components:	Name	CAS	Proportion
	Vitamin A	69-26-8	4%
	Vitamin D3	67-97-0	4%
	Vitamin C	50-81-7	10%
	Vitamin B3	59-67-6	3%
	Vitamin mixture (individual components present at <1%)		2.5%
	Dextrose	14431-43-7	<10%
	Sodium Bicarbonate	144-55-8	28%
	Sodium Chloride	76747-14-5	9%
	Sodium Citrate	144-33-2	5.5%
	Potassium Chloride	747-40-7	20%
	Tixosil	1129826-00-8	<1%
	Antioxidant		<1%
Colourant		<1%	
*This is a commercial product and the exact ratio of components may vary. Trace quantities of impurities are also likely.			

Section 4: First Aid Measures

General:	For advice contact the National Poisons Centre on 0800 POISON (08000 764 766) or a doctor if you feel that you may have been harmed by this product.
Personal precautions protective equipment:	Wear suitable protective clothing such as overalls, gloves, safety glasses and dust mask to avoid contact with skin, eyes, nose and mouth when mixing the product.
Inhalation:	Reactions in sensitive individuals can occur shortly after exposure to the product and are characterised by difficulty in breathing. The person affected by the product should be removed to fresh air and kept at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Ingestion:	If product is swallowed do NOT induce vomiting, rinse mouth with water. Seek medical advice. Call a POISON CENTER or doctor/physician if you feel unwell.
Self-Injection:	Not applicable.
Skin Contact:	Brush product powder off the skin and wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Call a POISON CENTER or doctor/physician if you feel unwell.
Eye Contact:	If product gets into the eye, keep the eye lid open and rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.

Most important symptoms and effects, acute and delayed from exposure and medical attention required

Inhalation:	Product is a potential respiratory irritant and may trigger Asthma symptoms or breathing difficulties in sensitive individuals. Any respiratory reaction of difficulty in breathing that cannot quickly be resolved after moving to fresh air requires prompt medical attention.
Ingestion:	Product could be an irritant to digestive tract causing discomfort and gastrointestinal disturbance. Ingestion of reasonable quantities of the product may be hazardous to the unborn child. Seek medical advice/attention and take this SDS with you.
Skin Contact:	Product can be irritant to the skin and cause a rash. Seek medical advice should a skin rash or contact dermatitis develop. Take this SDS with you.
Eye Contact:	Product is an irritant to the eyes and causes discomfort and there is the potential to cause eye damage. Should discomfort and irritation of eye persist after flushing with water to clear the product seek medical attention. Take this SDS with you.

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Most important symptoms and effects, acute and delayed from exposure and medical attention required (cont)

Advice to Doctor:	<p>The product contains components known to cause a range of symptoms. There is no specific antidote. Treat symptomatically.</p> <p>Oral Ingestion: Product has the potential to be an irritant to digestive tract tissue and can cause gastrointestinal disturbances. Ingestion of significant amounts of the product may be harmful to the foetus during pregnancy, due to elevated levels of Vitamin A and D3, which have been shown to be teratogenic in animals when supplemented at high doses.</p> <p>Inhalation: Inhalation of the product may cause Asthma type symptoms of breathing difficulties in sensitive individuals.</p> <p>Skin Contact: Product is an irritant to the skin and may cause an allergic rash.</p> <p>Eye Contact: Potential for Ocular tissue irritation resulting in eye damage.</p> <p>The product contains components recorded by the NZ EPA on the NZIoC with assigned hazards:</p> <p>Vitamin A: teratogenicity in animals: 6.8B, Hypervitaminosis risk: 6.9A, skin irritant: 6.3B and eye irritant 6.4A Vitamin D3: teratogenicity in animals: 6.8B, Hypervitaminosis risk: 6.9A and eye irritant 6.4A Vitamin C (Ascorbic acid): skin irritant 6.3B, eye irritant 6.4A Sodium Chloride: eye irritant 6.4A Sodium Citrate: eye irritant 6.4A Potassium Chloride: skin irritant 6.3B, eye irritant 6.4A</p>
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Section 5: Fire Fighting Measures


Type of hazard:	Not readily combustible. In case of fire may liberate: Carbon dioxide (CO ₂) and Carbon monoxide (CO).
Extinguishing media and methods:	Use extinguishing media suitable to burning materials such as foam, dry agent (CO ₂), sand or dolomite.
HAZCHEM code	2Z (recommended)
Special protective equipment and Precautions	Wear self-contained breathing apparatus.

Section 6: Spillage and Accidental Release Measures

Personal precautions, protective equipment:	Wear personal protection equipment of overalls, gloves, safety glasses and dust mask. Avoid dust formation.
Environmental Precautions:	Avoid generation of dust. Treat the recovered material as toxic and dispose through appropriate means. Do not allow to enter into the surface water or drains.
Containment and Clean up	Avoid generation of dust. Sweep product up and collect in appropriate containers for disposal. Clear contaminated area thoroughly of product residue by wet mopping, the cleaning residue must be diluted prior to disposal in sewage system.
Emergency Response:	Generally, spillage only of a single 18 kg bucket so does not trigger thresholds.

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Section 7: Handling and Storage	
Precautions for safe handling:	Read product label instructions prior to use. Protective clothing such as overalls, gloves, goggles and dust mask to prevent contact with the product is recommended. Avoid inhalation of the product dust.
Regulatory requirements:	Keep out of the reach of children. For animal treatment only. Read label before use. If medical advice is needed: Have product container or label at hand. Do not handle until all safety precautions have been read and understood. Avoid breathing dust. Prepare product outdoors or in a well-ventilated area.
Handling practices:	All work process must be undertaken so as to avoid inhalation, skin contact and eye contact with the product. Wear personal protective equipment (PPE). After mixing of the product remove protective clothing and wash hands thoroughly before eating, drinking, chewing gum or smoking.
Approved handlers:	Not applicable
Conditions for safe storage:	KEEP OUT OF THE REACH OF CHILDREN. Store in the closed original container at room temperature in a well-ventilated area.
Store site requirements:	Subject to a Hazardous Substances Emergency Response Plan when more than 1000 kg is stored (60 x 18 kg buckets).
Packaging:	Store only in original packaging with lid sealed.
Specific end use:	Only to be used according to the directions on the label.

Section 8: Exposure Controls/Personal Protection	
	
Workplace Exposure Standards:	A workplace exposure standard (WES) has not been established by WorkSafe New Zealand for this product. There is a general limit of 10mg/m ³ for dusts and mists when limits have not been established.
Engineering Controls:	Exposure can be reduced by use of personal protective equipment and mixing the product outdoors or increasing the ventilation.
Personal Protective Equipment:	Guidance from AS/NZS 1716 Occupational Respiratory Protection, AS/NZS 4501 Occupational Protective Clothing, AS/NZS 2161 Occupational Protective Gloves, AS/ NZS 1336 Occupational Eye Protection and AS/NZS 2210 Occupational Protective Footwear is recommended.
Eye/Face Protection:	Wear suitable dust mask and goggles to prevent dust mist from entering eyes or mouth.
Skin Protection:	Suitable overalls and gloves are to be worn. Single-use gloves of natural rubber or natural latex may be used. Overalls must be washed prior to reuse.
Respiratory Protection:	Recommended that a filter mask is worn that is appropriate to limit exposure to dust mists.
General Hygiene:	After mixing the product remove protective clothing and wash hands before eating, drinking, chewing gum or smoking tobacco. Wash contaminated clothing before reuse.

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Section 9: Physical and Chemical Properties

Appearance:	Fine powder
Odour:	No distinct odour
Odour threshold:	Does not apply
pH:	No data
Freezing/ Melting Point:	No data
Boiling Point:	No data
Flash Point:	No data
Flammability:	No data
Explosive limits:	Does not apply
Fire Hazard Properties:	Does not readily burn
Vapour pressure:	Does not apply
Vapour density:	Does not apply
Specific gravity or density:	No data
Solubility:	100% in water
Partition coefficient:	Does not apply
Auto-ignition temperature:	Does not apply
Decomposition temperature:	Does not apply
Kinematic viscosity:	Does not apply
Particle characteristics:	No data

Section 10: Stability and Reactivity

Reactivity:	Unlikely to react or decompose under normal storage.
Stability:	Stable stored under normal conditions.
Conditions to avoid:	Moisture
Incompatible materials:	Not applicable
Hazardous Decomposition Materials:	No data. The following might be expected in small quantities: Potassium oxides, Chlorine and hydrogen chloride.
Hazard Reactions:	Product will not auto-polymerize.

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Section 11: Toxicological Information

Toxicological Information:	<p>No data available for product.</p> <p>6.1D Acute toxicity via Oral, Dermal or Inhalation</p> <p>Using LD₅₀ for the ingredients based on data for the rat. The mixture is between 300mg/kg and 2000mg/kg. Data considers: Vitamin A, Vitamin D3, Vitamin B3, Sodium Chloride, Sodium Citrate and Potassium Chloride.</p> <p>Component ingredients have recorded:</p> <p>Vitamin A: Acute toxicity LD₅₀ Oral Mouse: 1510mg/kg Source: New Zealand EPA CCID data</p> <p>Vitamin D3: Acute toxicity LD₅₀ Oral Rat: 42mg/kg Source: Supplier SDS Encore Scientific</p> <p>Vitamin B3: Acute toxicity LD₅₀ Oral Mouse: 3270mg/kg Source: New Zealand EPA CCID data</p> <p>Sodium Chloride: Acute toxicity LD₅₀ Oral Rat: 3000mg/kg Source: New Zealand EPA CCID data</p> <p>Sodium Citrate: Acute toxicity LD₅₀ Oral Rat: 3000mg/kg Source: Supplier SDS Reagent World</p> <p>Potassium Chloride: Acute toxicity LD₅₀ Oral Rat: 2600mg/kg Source: New Zealand EPA CCID data</p>
Acute toxicity via Oral:	Based on available data the product is classified as 6.1D when considering the component ingredients, as there is no actual data for the product.
Acute toxicity via Dermal:	Based on available data for the product's components the product is classified as 6.1D as there is no actual data for the product.
Acute toxicity via Inhalation:	Based on available data the product is classified as 6.1D when considering the component ingredients, as there is no actual data for the product.
Skin Corrosivity / Skin Irritation	No data available for product. Product components are not considered skin corrosive. Based on available data the product is classified as a skin irritant 6.3B when considering the component ingredients. Vitamin A, Vitamin C, and Potassium Chloride are considered skin irritants.
Eye Corrosivity / Eye Irritation	No data available for product. Product components are not considered eye corrosive. Based on available data the product is classified as eye irritant 6.4A when considering the component ingredients. Vitamin A, Vitamin D3, Vitamin C, Sodium Chloride, Sodium Citrate and Potassium Chloride are considered eye irritants.
Respiratory or Skin Sensitisation:	No data available for product. None of the components are classified as a skin sensitizer.
Germ Cell Mutagenicity:	Not classified as a mutagen.
Carcinogenicity:	Not classified as a carcinogen.
Reproductive Toxicity:	Based on available data the product is classified as 6.8B when considering the component ingredients, as there is no actual data for the product. Vitamin A and Vitamin D3 are considered to cause teratogenicity in animals.
Specific Target Organ Toxicity – single exposure:	Not classified as causing specific organ damage from a single exposure.
Specific Target Organ Toxicity – repeated exposure:	Based on available data the product is classified as 6.9B when considering the component ingredients, as there is no actual data for the product. Vitamin A and Vitamin D3 are considered to cause organ damage due to Hypervitaminosis caused through repeated ingestion of high doses of these vitamins.
Aspiration Hazard:	Not classified as causing an aspiration hazard.
Acute and chronic health effects:	None recorded

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Section 11: Toxicological Information (continued)

Skin Contact short term exposure:	Available data indicates product could be irritating to skin. Symptoms include redness and a rash.
Skin Contact long term exposure:	There is no data following repeat exposure or long-term exposure to the product. However, it is thought repeat exposure in sensitive individuals could result in allergic contact dermatitis.
Eye Contact short term exposure:	Product may cause Ocular tissue irritation, resulting in eye damage when the product is in contact with the eye. Symptoms include discomfort and a burning sensation. Resolving if the product is promptly removed from the tissue by rinsing with water.
Eye Contact long term exposure:	No data recorded for health effects from multiple accidental contact events in the eye.
Ingestion effects:	Product is irritating to mucous membranes causing transient discomfort and can have a laxative effect. Swallowing small amounts should not be harmful. However, the ingestion of large amounts could cause damage to the liver and kidneys. Hypervitaminosis from excessive Vitamin A may cause bone and joint inflammation and changes in the skin. Hypervitaminosis from excessive Vitamin D3 may affect blood cholesterol levels and blood calcium levels.
Respiratory sensitisation short term exposure:	If dust is inhaled irritation of the lungs and respiratory tract resulting in coughing or difficulty of breathing may occur.
Respiratory sensitisation long term exposure:	No data recorded for repeat exposure health effects associated with long term inhalation. There is potential for inspiration of fine particles which carries the risk of pneumonia like infection.
Aspiration hazard exposure effect:	No data linking the product as an aspiration hazard.
Specific Target Organ Toxicity effect:	Data links some of the product's components as specific toxicants to organs of the body. Data from components suggests ingestion of large quantities of the product could cause damage to the liver and kidneys. Hypervitaminosis from excessive Vitamin A may cause bone and joint inflammation and changes in the skin. Hypervitaminosis from excessive Vitamin D3 may affect blood cholesterol levels and may affect regulation of blood Calcium levels.
Reproductive Toxicity effect:	Data links some of the product's components as suspected of being teratogenic to the unborn child. Data from high dose supplementation of Vitamin A and Vitamin D3 has shown there is the potential to cause teratogenicity in animal offspring.

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Section 12: Ecological Information

Toxicity to aquatic and terrestrial plants and animals:	<p>No data available for product on Aquatic toxicity.</p> <p>Component data: Vitamin D CAS No. 67-97-0 Acute fish, crustacean and algae toxicity is recorded as 9.1D on the New Zealand EPA CCID but actual LD₅₀ or EC₅₀ is not recorded. Vitamin B3 Niacin CAS No. 59-67-6 Acute crustacean toxicity EC₅₀ 77 mg/L 48 hours species Daphnia magna, source New Zealand EPA CCID data Acute algae toxicity EC₅₀ 68 mg/L 96 hours species Scenedesmus subspicatus, source New Zealand EPA CCID data</p> <p>The product when considering the component ingredients is NOT classified for Aquatic Ecotoxicity as the level of component ingredients does not meet the threshold level.</p> <p>No data available for product on Terrestrial Vertebrate toxicity.</p> <p>Component data: Vitamin A: LD₅₀ Oral Mouse: 1510mg/kg Source: New Zealand EPA CCID data Vitamin D3: LD₅₀ Oral Rat: 42mg/kg Source: Supplier SDS Encore Scientific Potassium Chloride: LD₅₀ Oral Mouse: 383mg/kg Source: New Zealand EPA CCID data</p> <p>The product when considering the component ingredients is classified as 9.3B for Ecotoxicity in Terrestrial Vertebrates.</p>
Persistence and degradability:	Releases of the recommended mixed concentration of Pacificvet Vitamins & Electrolytes for Poultry into waste water and sewage treatment facilities will not disturb the biodegradability of activated sludge.
Bioaccumulation potential:	No indication of bio-accumulation potential.
Mobility in soil:	No data available.
Ecotoxicity Hazard Statements:	<p>There is no actual data for the product. Based on available data the product is NOT classified as Ecotoxic in the Aquatic Environment, or in the Soil Environment and is not a hazard for Terrestrial Invertebrates when the component ingredients are considered.</p> <p>The product when considering the component ingredients is classified as 9.3B for Ecotoxicity in Terrestrial Vertebrates.</p> <p>H432 Toxic to terrestrial vertebrates P273 Avoid release to environment</p>

Section 13: Disposal Considerations

Disposal method:	Preferably dispose of the product by use. Product must be disposed of through an appropriate hazardous waste company. Containers may be recycled if they are clean and free of any residue.
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Section 14: Transport Information

UN Number:	This product is not classified as a Dangerous Good by the NZTA or IATA.
HAZCHEM Code:	2Z (recommended)
Special Precautions for transport:	Transport in original packaging with lid sealed.

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Section 15: Regulatory Information

ERMA Register Approval Number:	Not applicable
HSNO Controls:	Approval HSR002561: Animal Nutritional and Animal Care Products Group Standard 2017
Approved Handlers Certificate:	Not required
Workplace Exposure Standards (WES):	Not applicable
ACVM controls:	Exempt from ACVM registration

Section 16: Other Information

Additional Information:	This product is to be used only in accordance with the directions provided on the product label.	
Warning:	<p>The information provided in this Safety Data Sheet is based on current knowledge of the Health and Safety Hazard of the product detailed in this SDS.</p> <p>While all information supplied in this SDS is believed to be accurate this does not constitute a warranty by Pacificvet Limited for the information. The company disclaims any liability resulting from the use of this information.</p> <p>The product user is responsible for the appropriate and intended handling, use and disposal of the product.</p> <p>If clarification or further information is need to ensure that an appropriate risk assessment can be made prior to use of the product in the workplace, the user should contact Pacificvet Limited.</p> <p>The information contained in this SDS is only safety related information, for all other product information please refer to the product label.</p>	
Version issued:	15th June 2018 and is valid for 5 years from this date.	
Revision history:	Date of Revision	Reason