


AviBlue[®]

Section 1: Identification of the Substance and Supplier

Product name:	AviBlue
Other name:	Poultry drinking water stabiliser
ACVM Registration:	Exempt
Recommended use:	Stabiliser for Poultry drinking water ideal for use with drinking water vaccinations.
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:	20 th March 2023

Section 2: Hazard Identification

Hazard classifications:	<p>HSNO classification Water Treatment Chemicals (Subsidiary Hazard) Group Standard 2020 HSNO Approval: HSR002684</p> <p>Serious eye damage Category 1 Eye irritation Category 2. Skin irritation Category 2 Skin sensitisation Category 1 STOT single exposure Category 3 respiratory irritant Acute aquatic Category 1 and Chronic aquatic Category 1</p> <p>Not a Dangerous Good according to IATA of NZTA. Hazchem code: 1Y (recommended)</p>
Pictograms:	
Signal words:	Danger
Hazard statements:	<p>H315 Causes skin irritation H317 May cause an allergic skin irritation H318 Causes serious eye damage H332 Harmful if inhaled H370 Causes irritation to the lungs H401 Toxic to aquatic life (the concentrated undiluted product)</p>

Section 2: Hazard Identification (continued)

<p>Precautionary statements:</p>	<p>P102 Keep out of the reach of children P103 Read label before use P261 Avoid breathing dust P264 Wash thoroughly after handling P273 Avoid release of concentrated undiluted product to the environment P280 Wear protective gloves, eye protection, face protection and protective clothing P263 Wash contaminated clothing before reuse</p>
<p>Prevention statements:</p>	<p>For Animal Treatment P101 If medical advice is needed, have the product container or label and instruction leaflet at hand P102 Keep out of the reach of children P103 Read label before use P261 Avoid breathing dust P264 Do not get in eyes, on skin or on clothing P270 Do not eat, drink or smoke when using this product P271 Use in a well-ventilated area P272 Contaminated work clothing should not be allowed out of the workplace P280 Wear protective gloves, eye protection, face protection and protective clothing</p>
<p>Response statements:</p>	<p>P101 If medical advice is needed, have product container or label at hand. P301 + P321 + P312 IF SWALLOWED: Rinse mouth immediately and drink plenty of water. Call a POISON CENTER or doctor/physician if you feel unwell. P302 + P352, P333 + P313 IF ON SKIN: Wash immediately with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. P321 The Sodium thiosulphate component is recorded as a contact sensitizer. Skin exposure to product may cause allergic dermatitis. Wear gloves to avoid accidental contact with the product. P304 + P340, P342 + P313 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory tract irritation: Get medical advice/attention. P307 + P313 If exposed to excessive product dust. Get medical advice/attention. P305 + P351 + P338, P337 + P313 IF IN EYES: Keep eyelid open and immediately rinse with large quantities of water, for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 20 minutes to remove product. If eye irritation persists: Get medical advice/ attention. P362 Take off contaminated clothing and wash before reuse. 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 have storage requirements and does not require an approved handler.</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>

Section 3: Composition

Substance characterisation:	Blue crystalized granules		
Product components:	Name	CAS	Proportion
	Sodium hydrogen carbonate	144-55-8	< 25%
	Sodium thiosulphate	7772-98-7	< 25%
	Citric Acid	77-92-9	< 10%
	Lactose glycol	5989-81-1	< 35%
	Sodium carbonate	497-19-8	< 4%
	Acid Blue 3	3536-49-0	< 2%
*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 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 dust should be moved into the open fresh air and kept at rest in a position comfortable for breathing. Immediate medical attention should be sort if breathing difficulty continues. If medical advice is needed, have product container or label at hand.
Ingestion:	If product is swallowed do NOT induce vomiting, wash mouth with water and give plenty of water to drink. Seek immediate medical advice. If medical advice is needed, have product container or label at hand.
Self-Injection:	Not applicable.
Skin Contact:	Brush product granules off the skin and flush with lukewarm gently flowing water for 5 minutes or until product is removed. Then wash with soap and water to remove final product traces.
Eye Contact:	If product gets into the eye, keep the eye lid open and rinse immediately with large quantities of lukewarm gently flowing water for 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing for 20 minutes to remove product. If eye irritation persists: Get medical advice/ attention. Subsequently consult an ophthalmologist. If medical advice is needed, have product container or label at hand.

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

Inhalation:	Adverse symptoms of coughing and respiratory tract irritation. Product is a potential respiratory irritant and may trigger Asthma symptoms or breathing difficulties in sensitive individuals. Any respiratory reaction or difficulty in breathing that cannot quickly be resolved after moving to fresh air requires prompt medical attention.
Ingestion:	Product can be an irritant to digestive tract tissue causing discomfort and a burning sensation. May cause gastrointestinal disturbance and diarrhoea. Get medical attention and take this SDS with you.
Skin Contact:	Product can be irritant to the skin and cause burns. Product contains Sodium thiosulphate as a component that can cause skin sensitisation. Seek medical advice should a skin rash or contact dermatitis develop; advise the practitioner that the product contains Sodium thiosulphate a skin sensitiser. 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. Adverse symptoms include pain, watering, and redness. Should discomfort and irritation of eye persist after flushing with water to clear the product seek urgent medical attention. Take this SDS with you.
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 and diarrhoea.</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 burns. Product contains contact sensitizing components that can cause allergic dermatitis.</p> <p>Eye Contact: Potential for Ocular tissue irritation resulting in serious eye damage.</p> <p>Hazard components: Sodium thiosulphate: skin sensitiser Citric Acid: eye corrosive and respiratory irritation especially lung tissue</p>

Section 5: Fire Fighting Measures

Type of hazard:	Not readily combustible. In case of fire may liberate: Nitrogen oxides (NOx), Carbon dioxide (CO2), Sulphur oxides, Carbon monoxide.
Extinguishing media and methods:	Use extinguishing media suitable to burning materials such as water, foam, dry agent (CO2), sand or dolomite.
HAZCHEM code	1Y (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. Use appropriate respiratory protection (dust mask). Avoid dust formation.
Environmental Precautions:	Avoid generation of dust. Avoid dispersal of spilt material and runoff into waterways, drains and sewers. Treat the recovered material as toxic and dispose through appropriate means.
Containment and Clean up	Avoid generation of dust. Use a vacuum cleaner with HEPA filter to reduce dust dispersal, and collect in vacuum bag for disposal. Clear contaminated area thoroughly of any product residue by wet mopping, the cleaning residue must be diluted prior to disposal in the sewage system.
Emergency Response:	Does not trigger thresholds.

Section 7: Handling and Storage

Precautions for safe handling:	Read product label instructions prior to use. Protective clothing such as overalls, gloves, goggles, and face 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.
Handling practices:	All work process must be undertaken 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 before eating, drinking, chewing gum or using tobacco.
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, protected from direct light. Store away from oxidising chemicals.
Store site requirements:	Not subject to a Hazardous Substances Emergency Response Plan.
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 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 goggles to prevent dust mist from entering eyes.
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 using tobacco.

Section 9: Physical and Chemical Properties

Appearance:	Blue Granulate
Odour:	Slight sweet odour
Odour threshold:	Does not apply
pH:	At 20°C 6.5 – 7.5 (1.25 g/L)
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:	Density 700 – 800 kg/m ³
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:	Oxidising chemicals
Hazardous Decomposition Materials:	No data. The following might be expected in small quantities: Nitrogen oxides (NO _x), Carbon dioxide (CO ₂), Sulphur oxides, Carbon monoxide.
Hazard Reactions:	Product will not auto-polymerize.

Section 11: Toxicological Information

Toxicological Information:	<p>No data available for product.</p> <p>6.1 Acute toxicity via Oral, Dermal or Inhalation</p> <p>Using LD₅₀ for the ingredients based on data for the rat oral exposure. The mixture is >2000mg/kg. Data considers: Sodium thiosulphate >2500mg/kg/bw/d (REACH), Sodium hydrogen carbonate >4000mg/kg/bw/d (REACH), Citric Acid >5400mg/kg/bw/d (REACH), Sodium carbonate 4090mg/kg/bw/d (NZ CCID), Patent Blue V >5000mg/kg/bw/d (REACH)</p> <p>Component ingredients have recorded:</p> <p>Sodium thiosulphate: Skin Sensitisation Source: New Zealand EPA CCID data</p> <p>Citric acid: Corrosive to ocular tissue Source: New Zealand EPA CCID data</p> <p>Sodium Carbonate: Acute toxicity Inhalation dust/mist LD₅₀ Rat: 2.3 mg/L (2 hr) Source: New Zealand EPA CCID data</p>
Acute toxicity via Oral:	Based on available data the product is not classified when considering the component ingredients (>2000mg/kg). There is no actual data for the mixture.
Acute toxicity via Dermal:	Based on available data for the product's components it is considered the classification criteria is not met. There is no actual data for the product.
Acute toxicity via Inhalation:	Based on available data for the product's components it is considered the classification criteria is not met. There is no actual data for the product.
Skin Corrosivity / Skin Irritation	No data available for product. Based on available data the product is classified as a Skin irritant Category 2 , when considering the component ingredients: Sodium thiosulphate and Sodium carbonate are recorded skin irritants.
Eye Corrosivity / Eye Irritation	No data available for product. Product component Citric Acid is known to cause eye corrosion. Based on available data the product is classified as Serious eye damage Category 1 . The product is also Eye irritant Category 2 as the component ingredients Sodium thiosulphate and Sodium carbonate are considered eye irritants.
Respiratory or Skin Sensitisation:	No data available for product. Classified as a Skin sensitisation Category 1 hazard, as the component Sodium thiosulphate is classified as a skin sensitizer by the NZ EPA and was assigned HSR 003788.
Germ Cell Mutagenicity:	Not classified as a mutagen.
Carcinogenicity:	Not classified as a carcinogen.
Reproductive Toxicity:	Not classified as a reproductive toxin.
Specific Target Organ Toxicity – single exposure:	Product is classified as Specific target organ toxicity (STOT) – single exposure Category 3 respiratory irritant . The component Citric Acid is a known respiratory irritant.
Specific Target Organ Toxicity – repeated exposure:	Not classified as causing organ damage from repeated exposure.
Aspiration Hazard:	Not classified as causing an aspiration hazard.
Acute and chronic health effects:	None recorded
Skin Contact short term exposure:	Available data indicates product could be irritating to skin. Symptoms include redness, skin burning sensation and a rash.
Skin Contact long term exposure:	Sodium thiosulphate has been linked with skin sensitization following repeat exposure. This may result in allergic contact dermatitis.

Section 11: Toxicological Information (continued)

Eye Contact short term exposure:	Product may cause Ocular tissue irritation, resulting in serious eye damage when the product is in contact with the eye. Symptoms include discomfort and a burning sensation. This will resolve if the product is promptly removed from the tissue.
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 causing diarrhea. Swallowing small amounts should not be harmful. However, the ingestion of large amounts could cause damage to the liver and kidneys.
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.
Aspiration hazard exposure effect:	No data linking the product as an aspiration hazard.
Specific Target Organ Toxicity effect:	No data linking product as a specific toxicant to any organs of the body. Data from components suggests ingestion of large quantities of the product could cause damage to the liver and kidneys.

Section 12: Ecological Information

Toxicity to aquatic and terrestrial plants and animals:	<p>No data available for product Aquatic toxicity:</p> <p>Citric Acid anhydrous CAS No. 77-92-9 Acute fish toxicity LC₅₀ 440- 760 mg/L 96 hours species <i>Leuciscus idus</i>, source IUCLID Acute crustacea toxicity EC₅₀ = 120 mg/L 48 hours <i>Daphnia magna</i>, source IUCLID. REACH notes Citric acid is an essential element in the metabolic pathway of all living organisms, that only low short-term toxicity has been reported, is readily biodegradable, and due to its solubility in water has a low potential for bioaccumulation.</p> <p>Sodium carbonate CAS No. 497-19-8 Acute fish toxicity LC₅₀ 300 mg/l 96 hours <i>Lepomis macrochirus</i>, source IUCLID Acute crustacea toxicity EC₅₀ 265 mg/L <i>Daphnia magna</i>, source IUCLID. REACH notes in general the available toxicity studies with sodium carbonate were not conducted according to current standard guidelines. The main factor explaining the acute aquatic toxicity of sodium carbonate is most likely the increase of the pH.</p> <p>Acid blue 3 CAS No. 3536-49-0 Acute fish toxicity LC₅₀ 0.1 mg/L 96 hours species not specified, source NZ EPA CCID Acute algae toxicity EC₅₀ 0.7 mg/L 96 hours species Green algae, source NZ EPA CCID Acute crustacea toxicity LC₅₀ ≥ 0.7 mg/L 48 hours <i>Daphnia magna</i>, source NZ EPA CCID</p>
Persistence and degradability:	Releases of the recommended mixed concentration of water stabilizer 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:	The concentrated undiluted product has the potential to trigger the hazard threshold for Ecotoxicity in the Aquatic environment. Non-toxic in the Soil environment and is not a hazard for Terrestrial Vertebrates or Terrestrial Invertebrates.

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:	1Y (recommended)
Special Precautions for transport:	Transport in original packaging with lid sealed.

Section 15: Regulatory Information

ERMA Register Approval Number:	Not applicable
HSNO Controls:	Approval HSR002684: Water Treatment Chemicals (Subsidiary Hazard) Group Standard 2020
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:	20 th March 2023 and is valid for 5 years from this date.	
Revision history:	Date of Revision	Reason
	20 th March 2023	Transfer to GHS

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