



Safety Data Sheet

Tetravet Blue

1. IDENTIFICATION OF SUBSTANCE & COMPANY

Product information

Product name	Tetravet Blue
Other names	None
ACVM approval	A007485
HSNO approval	HSR002184
Approval description	Aerosol containing 2.6 - 10% oxytetracycline hydrochloride
UN number	1950
DG class	2.1
Proper Shipping Name	AEROSOL
Packaging group	N/A
Hazchem code	2YE

Uses For the treatment of topical microbial infections in all species of animals

Company Details

Company	Bayer New Zealand Ltd
Address	3 Argus Place, Hillcrest, Auckland 0627 New Zealand.
Telephone	0800 652 488
Facsimile	0800 229 838

Emergency Telephone Number: 0800 734 607

2. HAZARD IDENTIFICATION

Approval

This product has been approved under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002184, Aerosol containing 2.6 - 10% oxytetracycline hydrochloride), and is classified as follows:

Classes

Hazard Statements

9.1B Toxic to aquatic life with long lasting effects.

In addition to above classification the following classification may also apply

6.8B *Suspected of damaging fertility or the unborn child*

SYMBOLS

No signal word



Other Classifications

NOTE: This does not meet the criteria for flammable aerosol under HSNO, but is classed as a aerosol for transport. It does contain some flammable propellant and also is considered a compressed gas (HSNO regulations).

ACVM registration number: A007485



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Precautionary Statements

Read label before use.
Avoid release to the environment.
Collect spillage.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS/ Identification	Conc
Oxytetracycline hydrochloride	2058-46-0	40.0g/kg
Hydrocarbon propellant	68475-85-7	330.0g/kg
Ingredients not contributing to HSNO classes	NA	balance

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

4. FIRST AID

General Information

You should call the National Poisons Centre if you feel that you may have been harmed or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service). If medical advice is needed, have product container or label at hand. IF exposed or concerned: Get medical advice.

Recommended first aid facilities Ready access to running water is recommended. Accessible eyewash is recommended.

Exposure

Swallowed

The product is not considered harmful if swallowed. In case of persistent symptoms, contact the National Poisons Centre or a Doctor.

Eye contact

If product gets in eyes, wash material from them with running water for several minutes. If symptoms persist, seek medical advice.

Skin contact Inhaled

This product is non-irritating to skin. No further measures should be required. Generally, inhalation of fumes is unlikely to result in adverse health effects. If coughing, dizziness or shortness of breath is experienced, remove the patient to fresh air immediately. If patient is unconscious, place in the recovery position (on the side) for transport and contact a doctor.

Advice to Doctor

Treat symptomatically

5. FIREFIGHTING MEASURES

Fire and explosion hazards:

This product is an aerosol that releases flammable vapours. This product has the potential to cause fire or to create an additional hazard during fire. Buildup of explosive mixtures possible. Container may rupture/explode in a fire.

Remove undamaged cans if safe to do so.

Leaking or burning cans should be extinguished only when absolutely necessary.

Spontaneous or explosive reignition may occur. Extinguish fire in surrounding area.

Carbon dioxide, extinguishing powder, foam, fog sprays, water jets.

Suitable extinguishing substances:

Unsuitable extinguishing substances:

Unknown.

Products of combustion:

Carbon dioxide, and if combustion is incomplete, carbon monoxide, oxides of nitrogen and smoke. Water. May form toxic mixtures in air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures.

Protective equipment:

Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat and eye protection.

Hazchem code:

2YE



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6. ACCIDENTAL RELEASE MEASURES

Containment	If greater than 3000L is stored, secondary containment and emergency plans to manage any potential spills must be in place. Prevent spillage from spreading or entering soil, waterways or drains.
Emergency procedures	In the event of spillage alert the fire brigade to location and give brief description of hazard. Stop the source of the leak, if safe to do so. Shut off all possible sources of ignition. Wear protective equipment to prevent skin, eye and respiratory exposure. Clear area of any unprotected personnel. Contain using sand, earth or vermiculite. Prevent by whatever means possible any spillage from entering drains, sewers, or water courses. (If this occurs contact your regional council immediately).
Clean-up method	Note: flammable vapours are possible. Collect undamaged cans and recycle. Collect damaged cans and seal in properly labelled containers or drums for disposal.
Disposal	Collect recoverable material into labelled containers for recycling or salvage. This material may be suitable for approved landfill. Dispose of only in accord with all regulations.
Precautions	Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Be aware of fire risk – avoid sources of ignition.

7. STORAGE & HANDLING

Storage	Avoid storage of harmful substances with food. Store out of reach of children. Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames. Keep out of direct sunlight.
Handling	Avoid contact with incompatible substances as listed in Section 10. Replace cap when not in use. The container is pressurised. Do not puncture or incinerate can even when empty. Keep exposure to a minimum, and minimise the quantities kept in work areas. Do not eat, drink or smoke while using this substance. See section 8 with regard to personal protective equipment requirements.

8. EXPOSURE CONTROLS / PERSONAL PROTECTIVE EQUIPMENT

Workplace Exposure Standards

A workplace exposure standard (WES) has not been established by the NZ Department of Labour for this product. There is a general limit of 10mg/m³ for dusts and mists when limits have not otherwise been established.

NZ Workplace Exposure Stds (OSH – DoL 2011)	Ingredient	WES-TWA	WES-STEL
	Isopropanol	400ppm, 983mg/m ³	no data
	Hydrocarbon propellant	1000ppm 1800mg/m ³	500ppm, 1230mg/m ³

Engineering Controls

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety in Employment Act 1992 (HSE). Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify processes or increase ventilation.



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Personal Protective Equipment

Eyes	Protective eyewear is not normally necessary when using this product. However, it is always prudent to use protective eyewear. Do not spray near eyes.
Skin	If discomfort is felt gloves may be helpful. If you suffer from dermatitis type skin conditions, use gloves, e.g. natural rubber or nitrile. Replace frequently. Gloves should be checked for tears or holes before use.
Respiratory	Respirator is not required under normal use. Ensure adequate natural ventilation. If product is being used in confined conditions, the use of a mask or respirator may be preferred.

WES Additional Information

Not applicable

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance	blue coloured liquid in aerosol dosage form
Odour	no data
pH	no data
Vapour pressure	no data
Viscosity	no data
Boiling point	no data
Volatile materials	33% hydrocarbon propellant
Melting point	no data
Solubility	no data
Specific gravity / density	no data
Flash point	no data
Danger of explosion	container is pressurised.
Auto-ignition temperature	no data
Upper & lower flammable limits	no data
Corrosiveness	non corrosive

10. STABILITY & REACTIVITY

Stability	Stable
Conditions to be avoided	Containers should be kept closed in order to avoid contamination. Keep from extreme heat and open flames.
Incompatible groups	Strong oxidisers
Substance Specific Incompatibility	None known.
Hazardous decomposition products	When heated to decomposition: Toxic fumes of carbon monoxide, carbon dioxide, hydrochloric acid and oxides of nitrogen.
Hazardous reactions	None known.



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11. TOXICOLOGICAL INFORMATION

Summary

This mixture does not trigger HSNO toxicity classifications, however ingestion of large amounts may cause nausea, vomiting and diarrhoea. If spray comes into contact with eyes, it may cause stinging or redness.

CHRONIC EFFECTS: long term exposure include swelling and redness of the skin and rashes. There may be effects reproductive effects and effects on the unborn child.

Supporting Data

Acute	Oral	The calculated LD ₅₀ (oral, rat) for the mixture is >5,000 mg/kg. Data considered includes: oxytetracycline hydrochloride 3883mg/kg (mouse).
	Dermal	No evidence of dermal toxicity.
Chronic	Inhaled	No evidence of inhalation toxicity.
	Eye	The mixture is not considered by EPA to be an eye irritant.
	Skin	The mixture is not considered by EPA to be a skin irritant.
	Sensitisation	No ingredient present at concentrations > 0.1% is classed a sensitizer. However person sensitive to antibiotics may develop allergic reactions.
	Mutagenicity	No ingredient present at concentrations > 0.1% is considered a mutagen.
	Carcinogenicity	No ingredient present at concentrations > 0.1% is considered a carcinogen.
	Reproductive / Developmental	No ingredient present at concentrations > 0.1% is considered by EPA a reproductive or developmental toxicant or have any effects on or via lactation. However Oxytetracycline may cause reproductive and fetal effects, with possible risk to the unborn child. RTECS Q18225000.
	Systemic	No ingredient present at concentrations > 1% is considered a target organ toxicant.
	Aggravation of existing conditions	None known.

12. ECOLOGICAL DATA

Summary

This mixture is considered to be toxic towards aquatic species.

Supporting Data

Aquatic	Using EC ₅₀ 's for ingredients, the calculated EC ₅₀ for the mixture is between 1 mg/L and 10 mg/L. Data considered includes: Oxytetracycline: 0.207mg/L (72hr, Microcystis aeruginosa), 61.1 mg/l (48hr, Penaeus vannamei (Whiteleg shrimp)).
Bioaccumulation	No data
Degradability	No data
Soil	No evidence of soil toxicity.
Terrestrial vertebrate	The calculated LD ₅₀ for the mixture is >5000mg/kg. See acute toxicity.
Terrestrial invertebrate	No evidence of toxicity towards terrestrial invertebrates.
Biocidal	No data
Environmental effect levels	No EELs are available for this mixture or ingredients

13. DISPOSAL CONSIDERATIONS

Restrictions	This is an aerosol container. Disposal must comply with Hazardous Substances (Disposal) Regulations 2001. Do not puncture or incinerate containers.
Disposal method	Disposal of this product must comply with the requirements of the Resource Management Act for which approval should be sought from the Regional Authority. Disposal of the aerosol dispenser (that may or may not contain any residual substance) by households or other consumers through a public or commercial waste collection service is acceptable.
Contaminated packaging	As above.



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14. TRANSPORT INFORMATION

Transport according to NZS 5433 (Transport of Hazardous Substances on Land). Considered a dangerous good for transport.

UN number:	1950	Proper shipping name:	AEROSOL
Class(es):	2.1	Packing group:	N/A
Precautions:	Flammable Aerosol, Ecotoxic	Hazchem code:	2YE

15. REGULATORY INFORMATION

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002184, Aerosol containing 2.6 - 10% oxytetracycline hydrochloride.

Specific Workplace Controls (as per HSNO approval referenced to Controls Matrix)

Key workplace requirements are:

MSDS	To be available within 10 minutes in workplaces storing > 0.2L.
Labelling	No removal of labels and/or decanting of product into other containers can occur.
Emergency plan	Required if > 100L is stored.
Approved handler	Not required.
Tracking	Not required.
Bunding & secondary containment	Required if > 100L is stored.
Signage	Required if > 100L is stored.
Location test certificate	Not required.
Flammable zone	Not required.
Fire extinguisher	Not required.

Note: Must also comply with the Hazardous Substance (Compressed Gases) Regulations 2004

Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.

Other Legislation

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health, Safety in Employment Act and Regulations, local Council Rules and Regional Council Plans.
ACVM registration number: A007485



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16. OTHER INFORMATION

Abbreviations

Approval Code	Approval HSR002184, Aerosol containing 2.6 - 10% oxytetracycline hydrochloride Controls, EPA. www.epa.govt.nz
ACVM	Agricultural Compounds and Veterinary Medicines
ARTG	Australian Register of Therapeutic Goods
CAS Number	Unique Chemical Abstracts Service Registry Number
Ceiling	Ceiling Exposure Value: The maximum airborne concentration of a biological or chemical agent to which a worker may be exposed at any time.
Controls Matrix	List of default controls linking regulation numbers to Matrix code (e.g. T1, I16).
EC₅₀	Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test population (e.g. daphnia, fish species)
ERMA	Environmental Risk Management Authority (now EPA)
EPA	Environmental Protection Agency (previously known as ERMA)
HAZCHEM Code	Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters
HSNO	Hazardous Substances and New Organisms (Act and Regulations)
IARC	International Agency for Research on Cancer
LEL	Lower Explosive Limit
LD₅₀	Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).
LC₅₀	Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population (usually rats)
MSDS	Material Safety Data Sheet (or Safety Data Sheet)
OSH - DoL	The Occupational Safety and Health Service of the Department of Labour (NZ)
STEL	Short Term Exposure Limit - The maximum airborne concentration of a chemical or biological agent to which a worker may be exposed in any 15 minute period, provided the TWA is not exceeded
TWA	Time Weighted Average – generally referred to WES averaged over typical work day (usually 8 hours)
UEL	Upper Explosive Limit
UN Number	United Nations Number
WES	Workplace Exposure Standard - The airborne concentration of a biological or chemical agent to which a worker may be exposed.

References

Data	Unless otherwise stated comes from the EPA HSNO chemical classification information database (CCID) http://www.epa.govt.nz/hs/compliance/chemicals.html for specific chemicals.
EPA Transfer Gazettes	Classifications and controls assigned for specific ingredients (consolidated gazette, 2004)
Controls Matrix	Part of the EPA New Zealand User Guide to the HSNO Control Regulations
WES 2011	The NZ Workplace Exposure Standards Effective from 2011, published by OSH – DoL and available on their web site – www.osh.dol.govt.nz .
Other References:	Suppliers MSDS

Review

Date	Reason for review
September 2012	Not applicable – new MSDS
December 2012	Toxicological information on Oxytetracycline HCl

Disclaimer

This MSDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The MSDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the MSDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely HSNO classifications, are based on our experience, EPA Guidelines and international classifications. This MSDS is copyright Datachem and must not be edited without the permission of the copyright holder or used for other than intended purpose. To contact the MSDS author, email info@datachem.co.nz or phone: (09) 940 30 80.

