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Version 1.1

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SECTION 1 – IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

Product Identifier

Product Name	Vetsan Concentrate
Other Names	None
Proper Shipping Name	None
Other means of Identification	None

Relevant identified uses of the substance or mixture

Relevant identified uses	Disinfection of animal housing facilities, veterinary clinics and laboratories. As an odour neutraliser

Details of the supplier of the safety data sheet

Registered company name	Vetpak Limited
Address	249 Bruce Berquist Dr, Te Awamutu 3800.
Telephone	(07) 870 2024
Website	www.vetpak.co.nz
Email	sales@vetpak.co.nz

Emergency telephone numbers

Association/ Organisation	New Zealand National Poison information centre
Emergency telephone number	0800 764 766 (07) 870 2024 Vetpak. 8.00am to 5.00pm Monday to Friday except public holidays.
Other emergency telephone numbers	New Zealand emergency services 111

SECTION 2 – HAZARDS IDENTIFICATION

Hazard Classification:

Non Hazardous according to the criteria of the Globally Harmonised System of classification and labelling of chemicals (GHS)

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures

CAS Number	% (weight)	Name
7758-19-2	< 10%	Chlorine Dioxide
7732-18-5	To 100 %	Water (micro-filtered)

SECTION 4 – FIRST AID MEASURES

Description of first aid measures

Eye contact	If this product comes in contact with eyes ➢ Not considered an eye irritant ➢ As a precaution ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids ➢ Seek medical attention if symptoms persist
Skin contact	If skin or hair contact occurs ➢ Remove and isolate contaminated clothing and shoes and wash before reuse ➢ Wash the affected area thoroughly with water and soap ➢ If skin irritation or rash occurs get medical advice / attention
Inhalation	➢ This product is most unlikely to be inhaled and non reactive. If this happens, ensure airways are clear and seek immediate medical assistance if required
Ingestion	➢ If swallowed do not induce vomiting. Give the patient several glasses of water ➢ Seek medical advice if any symptoms persist.
Advice to the doctor	Show this safety data sheet (SDS) to the doctor in attendance. Treat symptomatically.

SECTION 5 – FIREFIGHTING MEASURES

Extinguishing media	➢ In case of fire, use appropriate extinguishing media most suitable for surrounding fire conditions: ➢ Water - water spray ➢ Dry powder ➢ Foam ➢ Carbon dioxide (CO2).

Special hazards arising from the substrate or mixture

Fire incompatibility	This product is not flammable
Hazards from combustion	None

Advice for fire fighters

Fire fighting	➢ Wear breathing apparatus plus protective gloves in the event of a fire. ➢ Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area. ➢ Equipment should be thoroughly decontaminated after use.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Minor spills	➢ No special clean up measures are required for the consumer product. To avoid the possibility of bleaching, the spill should be absorbed with paper towels, and the area rinsed with clean water. ➢ Wear the appropriate protective equipment to prevent contamination ➢ Contain safely if possible. Do not allow chemical to enter drains and waterways.
	➢ Alert fire brigade; explain location and nature of hazard. ➢ Prevent spillage from entering drains or water-courses. ➢ If contamination of sewers or waterways and or surrounding environment has

Major spills	occurred, notify local emergency services, local authorities, and the Regional Council.
Containment	➢ Stop leak if you can do it without risk.

SECTION 7 – HANDLING AND STORAGE

Precautions for safe handling

Safe Handling	➢ Read label before use ➢ Limit all unnecessary personal contact. ➢ Wear protective clothing when risk of exposure occurs. ➢ When handling do not eat, drink or smoke. ➢ Always wash hands with soap and water after handling.
Other information	➢ Protect containers from damage and check regularly for leaks ➢ Store away from incompatible materials and foodstuff containers

Conditions for safe storage, including any incompatibilities

Storage	➢ Store in an approved area. ➢ Keep container tightly closed and sealed until ready for use. ➢ Protect containers from physical damage and check regularly for leaks.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

General	New Zealand Workplace Exposure Standard: None prescribed

Exposure controls

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level protection. The basic controls are: Process controls which involve changing the job activity or process to reduce risk Enclosure and or isolation source control keeping workers physically safe Ventilation that strategically adds and removes air in work environment.
Personal protection	
Eye and face protection	➢ Safety glasses with side shields ➢ Contact lenses may pose a special hazard soft contact lenses may absorb and concentrate materials. ➢ Medical personal should be trained and readily available in the event of chemical exposure; they should begin eye irrigation and remove contact lenses as soon as practicable. Lenses should be removed at the first sign of eye irritation
Skin protection	Wear general protective gloves e.g. light weight rubber gloves
Hand / feet protection	As above for hands; wear appropriate footwear for the environment
Body protection	Not required
Other protection	➢ Overalls ➢ PVC Aprons ➢ PVC protective gear ➢ Eyewash facilities ➢ Ensure there is ready access to a safety shower

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Clear, water-like, free-flowing liquid	Relative density (Water = 1)	1.0
Odour	Olfactory	Auto ignition temperature	Not available
Odour threshold	Not available	Specific Gravity	Not available
pH	Not available	Viscosity	Not available
Melting point (^{o}C)	Not available	Molecular weight (g/mol)	Not available
Boiling point (^{o}C)	100 ^{o}C	Taste	Not available
Flash point (^{o}C)	Not available	Solubility	Soluble
Evaporation rate	Not available	Oxidising properties	Not available
Flammability	Not available	Volatile component (% vol)	Not available

SECTION 10 – STABILITY AND REACTIVITY

General Information	This product is stable under normal conditions
Chemical stability	This product is stable under normal conditions
Conditions to avoid	Strong acids
Incompatible materials	This product is stable under normal conditions
Hazardous Decomposition	Decomposition may yield chlorine dioxide or chlorine
Hazardous Polymerisation	Will not occur

SECTION 11 – TOXICOLOGICAL INFORMATION

Inhalation	No specific disorder or effects are identified. The material is not thought to produce adverse health effects or irritation
Ingestion	Accidental ingestion of the material may cause discomfort
Skin	The material is not thought to produce adverse health effects or irritation
Eyes	May cause irritation
Carcinogenicity	Not suspected of being a carcinogen
Reproductive Toxicity	Not suspected of causing genetic defects
Mutagenicity	Not suspected of causing mutagenic defects
Chronic Effects	Not known
Chronic Toxicity	Not known

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity	Non-toxic, non-hazardous. No environmental effects will occur
Persistence/Degradability	Persistence unlikely, Biodegradable
Bioaccumulation Potential	No information available
Environmental Impact	No information available
Products of Biodegradation	No Data
Toxicity of the Products of Biodegradation	No Data

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / packaging disposal	➢ Dispose of product only by using according to label or at an approved landfill. ➢ Recycle where possible. ➢ Do not contaminate bodies of water with chemical or empty container. Refer to the Local council bylaws and Land Waste Management Authority. ➢ Dissolved material in excess water is normally suitable for disposal in storm water system.
Container disposal	➢ Containers should be cleaned by approved methods and then re-used or disposed of by landfill. After cleaning, all existing labels should be removed.

SECTION 14 – TRANSPORT INFORMATION

Labels required

Marine Pollutant	No
HAZCHEM	No data

Land transport (ADG) - Air transport (ICAO-IATA / DGR) - Sea transport (IMDG / GGVSee)

UN Number	None
Packing group	III
UN proper shipping name	No data
Environmental hazard	No data available
Transport hazard classes	No data available check local regulations
Special precautions for user	Transport upright in the original container with the lid tightly closed. Avoid spillage and any release into the environment

SECTION 15 – REGULATORY INFORMATION

Safety, health and environment regulations / legislation specific for the substance or mixture

GHS Codes	None
National Inventory	Status - Approved
USA EPA Approvals	EPA (USA) Reg. No 9150-2 E.S.T. No 9150-RI-01
Australia – AICS	Yes
Europe – EINEC / ELINCS / NLP	Yes
New Zealand – NZIoC	Yes - All ingredients are on the inventory
Environmental Protection Authority (New Zealand)	Determination for the status of Clinic Clean – Not considered hazardous File Ref: IO95-05-01 SOS - 515
AsureQuality Approval	Approved for food/beverage/dairy/farms and factories, for contact surfaces, & those food rinses permitted by legislation (Ref H1394bc)
Ministry of Primary Industries	Approval of Maintenance Compounds: Specification Sanitiser, Category C43 Approval of Maintenance Compounds: Specification Water disinfectant, Category C61

SECTION 16 – OTHER INFORMATION

While Vetpak Limited in good faith has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, Vetpak Limited accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

New Zealand National Poison Information Centre: 0800 764 766
New Zealand Emergency Services: 111
Vetpak Limited: +64 7 870 2024

Definitions and abbreviations

PC – TWA	Permissible concentration – time weighted average
PC – STEL	Permissible concentration – short term exposure limit
IARC	International agency for research on cancer
ACGIH	American conference of Government Industrial Hygiene
STEL	Short term exposure limit
TEEL	Temporary emergency exposure limit
IDLH	Immediate dangerous to life or health concentration
OSF	Odour safety factor
NOAEL	No observed adverse effect level
LOAEL	Lowest observed adverse effect level
TLV	Threshold limit value
LOD	Limit of detection
OTV	Odour threshold value
BCF	BioConcentration factors

END OF SDS