VETPAK SAFETY DATA SHEET

Section 1: Identification of the Substance or Mixture and of the Supplier

Product Name: TERMINATOR
Other names:

Recommended Use: Broad-spectrum disinfectant for surface and equipment disinfection and aerial fogging of livestock premises

Company Details: Vetpak Ltd.

Address: 249 Bruce Berquist Drive Te Awamutu.

Telephone Number: (07) 870 2024

Emergency Telephone Number: (07) 870 2024 8.00am to 5.00pm Monday to Friday except public holidays. National Poisons Centre, Department of Preventative and Social Medicine, University of Otago, P O Box 913, Dunedin, New Zealand. Phone **(0800) 764-766** 24 hours.

Date of Preparation: 6th September 2019

Section 2: Hazards Identification

STATEMENT OF HAZARDOUS NATURE

This product is HAZARDOUS IN THIS FORM AND AT THIS STRENGTH.
Handle correctly and as directed by this SDS.

EPA New Zealand Approval Number: HSR006502 (Benzalkonium Chloride) HSR006396 (Glutaraldehyde)

HAZARD LABELLING WARNING

HAZARD CLASSIFICATION AND STATEMENTS

HSNO	HSNO	GHS	Signal Word	GHS Hazard Statement
6.1C	Acute toxicity (All)	Category 3	Danger	H301 H311 H331 Toxic if swallowed, if in contact with the skin, if inhaled.
6.5A	Respiratory sensitiser	Category 1	Danger	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
6.5B	Contact sensitiser	Category 1	Warning	H317 May cause an allergic skin reaction
6.9B	Harmful to human target organs or systems	Category 2	Warning	H371 H373 May cause damage to organs
8.2B	Skin corrosion/irritation	Category 1B	Danger	H314 Causes severe skin burns and eye damage
8.3A	Serious eye damage / irritation	Category 1	Danger	H318 Causes serious eye damage
9.1B	Aquatic toxicity	Category 2	None	H411 Toxic to aquatic life with long lasting effects
9.2B	Soil ecotoxic	Category 2	None	H422 Toxic to the soil environment
9.3C	Vertebrate ecotoxic	None	None	H433 Harmful to terrestrial vertebrates

Prevention Statements:
P102: Keep out of reach of children.
P103: Read label before use.
P201: Obtain special instructions before use.

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P202: Do not handle until all safety precautions have been read and understood.
P260: Do not breathe mist/vapours/spray
P261: Avoid breathing dusts, vapours or mists
P264: Wash hands thoroughly after use.
P270: Do not eat, drink or smoke when handling this product.
P271: Use only in a well-ventilated area
P272: Contaminated work clothing should not be allowed out of the workplace.
P273: Avoid release to the environment.
P280: Wear protective gloves / clothing and eye / face protection.

Section 3: Composition / Information on Ingredients:

COMPOSITION

Ingredient	CAS Number	% w/w	HAZARDOUS
Water	7732-18-5	>60	No
Glutaraldehyde (HSR006396) *(>5 – 20% in a non-hazardous diluent)*	111-30-8	10-30	Yes 6.1C; 6.5A; 6.5B; 6.9B; 8.2B; 8.3A; 9.1D; 9.2B; 9.3C
Benzalkonium Chloride (HSR006502) *(>5 – 25% in a non-hazardous diluent)*	8001-54-5	10-30	Yes 6.1D; 6.5A; 6.5B; 6.9B; 8.2C; 8.3A; 9.1B; 9.3C

Section 4: First Aid Measures:

Swallowed: Do not induce vomiting. Do not give anything to drink. Obtain medical advice with urgency.

Skin: Wash contaminated skin with soap and water. If contact has been widespread and prolonged, or if irritation persists, seek medical advice. Remove contaminated clothing and launder before re-use.

Eye: Immediately flush eyes with water and continue flushing for at least 15 minutes. Seek medical advice with urgency.

Inhaled: Remove to fresh air. If breathing is difficult, administer oxygen. If symptoms persist, call a physician.

Notes for Medical Personnel: Treat symptomatically. Refer Section 11 for acute health effect information.

Section 5: Fire Fighting Measures

Type of Hazard: Not flammable.

Fire Hazard Properties: Burning can produce Carbon Monoxide and or Carbon Dioxide. Polymerisation can occur, but at temperatures below 100°C it is not considered hazardous.

Extinguishing Media & Methods: Use carbon dioxide (CO2) or dry chemical for small fires. Use foam or water fog for large fires.

Recommended Protective Clothing: Fire fighters should wear a self-contained breathing apparatus and protective clothing to prevent contact with eyes and skin.

Section 6: Accidental Release Methods

Procedures to be covered: Clean-up personnel should wear personal protective (Section 8) equipment to protect against skin or eye contact.

Methods and Materials for Containment and Clean-up: Small spills can be flushed with large quantities of water. Large spills should be absorbed with an inert material. It may be possible to decontaminate spilled material by careful application of Aqueous Ammonium Hydroxide or Sodium Bisulphite Solution. Dispose of waste in compliance with local waste disposal regulations.

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Section 7: Handling and Storage

Handling: Ensure and eye bath and wash room facilities are available and ready for use. Use personal protective equipment as required (see SECTION 8).

Storage: Store in a cool dry place away from sources of heat. Avoid contact with Alkalis. Containers should always be kept closed in storage and properly labelled. Store only in original containers.

Section 8: Exposure Controls / Personal Protection

Workplace Exposure Standards: None for this product.

Engineering Controls: Use with adequate ventilation.

Personal Protection: EYES: chemical safety glasses. SKIN: Wear chemical apron, nitrile, neoprene rubber or butyl rubber gloves and safety shoes. RESPIRATORY: Wear a half-face respirator with appropriate organic vapour cartridges.

General hygiene: Always wash hands before eating, drinking, smoking or using toilet facilities.

Section 9: Physical and Chemical Properties

Appearance (physical state, colour, etc.): Liquid

Odour: No data

Boiling Point / Melting Point: No data

Specific Gravity: No data (H_2O = 1)

Flash Point: N/A

Flammability: Not flammable.

Flammable Limits: Not applicable.

Ignition temperature: Not applicable.

pH: No data

Solubility in Water: No data

Section 10: Stability and Reactivity

Stability of the Substance: Stable under usual conditions of use and storage.

Conditions to avoid: Heat.

Material to avoid: Avoid contact with Alkalis.

Hazardous decomposition Products: Burning can produce Carbon Monoxide and or Carbon Dioxide

Hazardous polymerization: Polymerisation can occur, but at temperatures below 100°C it is not considered hazardous.

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Section 11: Toxicological Information

Acute Effects:

Swallowed: May cause moderate to marked irritation and possibly chemical burns of the mouth, throat, oesophagus and stomach. There will be discomfort or pain in the chest and abdomen, nausea, vomiting, diarrhoea, dizziness, faintness, drowsiness, thirst, weakness, circulatory shock, collapse and coma.

Skin: Brief contact will cause itching with mild to moderate local redness and possibly swelling. Prolonged contact may result in pain, severe redness and swelling. Repeated skin contact could result in cumulative dermatitis. Toxicology studies indicate that prolonged or widespread contact could result in the absorption of potentially harmful amounts of material.

Eye: Liquid will cause severe and persistent conjunctivitis. Severe corneal injury may develop. Vapour will cause stinging sensations in the eye with excess tear production, blinking and possibly a slight excess redness of the conjunctiva.

Inhaled: Vapour is irritating to the respiratory tract, causing stinging sensations in the nose and throat, discharge from the nose, coughing, chest discomfort and tightness, difficulty with breathing and headache.

Chronic Effects: Not known.

Chronic Toxicity: Not known.

Irritation/Corrosion: Not known.

Carcinogenicity: Not considered to be a carcinogen.

Mutagenic Effects: Glutaraldehyde is mutagenic in vitro. In vivo tests to date have been negative. Consequently Glutaraldehyde does not meet the criteria for classification as a mutagen. (See, Glutaraldehyde, Priority Existing Chemical No.3. Full Public Report, 1994, Australian Government Publishing Service, Canberra).

Reproductive or developmental effects: Not known.

Section 12: Ecological Information

Potential Environmental Considerations: Avoid contaminating waterways, drains and sewers.

Ecotoxicity in water: Considered harmful to aquatic life.

Chronic: No Data

Phytotoxicity: No Data

Persistence and Degradability: No Data

Mobility: No Data

Bioaccumulation: No Data

BOD and COD: No Data

Products of Biodegradation: No Data

Toxicity of the Products of Biodegradation: No Data

Section 13: Disposal Considerations

Disposal; Waste material should be disposed of in an authorised landfill following local, regional and government regulations.

Section 14: Transport Information

Hazard Class: 6.1C; 6.5A; 6.5B; 6.9B; 8.2B; 8.3A; 9.1B; 9.2B; 9.3C

UN Number: None

Packing Group: None

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Hazchem Code: None

Land Transport: Check regulations

Sea Transport: Check regulations

Air Transport: Check regulations

Other Information:

Section 15: Regulatory Information

HSNO Approval Number: None

HSNO Classifications:
6.1C (Acute toxicity)
6.5A (Respiratory sensitiser)
6.5B Contact sensitiser)
6.9B (Harmful to human target organs or systems)
8.2B (Skin corrosion/irritation)
8.3A (Serious eye damage / irritation)
9.1B (Aquatic toxicity)
9.2B (Soil ecotoxic)
9.3C (Vertebrate ecotoxic)

Regulatory status:

Section 16: Other Information

Interpretation and Abbreviations
Controls applying to a substance:

- * denotes that changes have been made to these controls, further information on these changes is located in the transfer notice for that substance,
- (R) abbreviation for the term Regulation of the Hazardous Substances regulations

AICS – Australian Inventory of Chemical Substances
AOX – Absorbable organic halogens.
APF – Assigned Protection Factor.
BOD – Biochemical Oxygen Demand China
COD – Chemical Oxygen Demand
DSL – Canadian Domestic Substances List.
EC50 – Half maximal effective concentration. The concentration of a toxicant which induces a response halfway between the baseline and maximum after a specified exposure time.
EINECS – European Inventory of Existing Commercial Chemical Substances.
ENCS – Japanese Existing and New Chemical substances.
IARC – International Agency for Research on Cancer.
IDLH – Immediately Dangerous to Life or Health Concentrations.
ISHL – Japanese Industrial Safety and Health Law List of Chemicals.
LOEL – Lowest Observed Effect Level.
LD^{50} – Lethal Dose sufficient to kill 50 percent of the test population within a certain time
LD_{LO} – Lethal Dose Low (the lowest dosage per unit of bodyweight of a substance known to have resulted in fatality in a particular animal species).
MAK – Maximum workplace concentration in the workplace air that generally does not have known adverse effects on the health of the employee nor cause unreasonable annoyance when a person is repeatedly exposed during long periods, usually 8 hours daily, 40hour working week).
NOAA – National Oceanic and Atmospheric Administration.
NOEC – No Observed Effect Concentration.
NTP – National Toxicology Program.
NZIoC – New Zealand Inventory of Chemicals.
OECD HPV – The Organisation for Economic Co-operation and Development High Product Volume Chemicals.
PEL – Permissible exposure limit.

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PPE – Personal Protective Equipment.
Prop 65 – California Proposition 65 List of Chemicals.
RTECS – Registry of Toxic Effects of Chemical substances
STEL – Short term exposure limit.
TOC – Total Organic Carbon.
TSCA – US Toxic Substances Control Act Existing Chemicals.
TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.
VOC – Volatile Organic Compounds.

Date of Preparation/Review: 6th September 2019

Sources of key data used to compile the datasheet:
Manufacturers SDS
NZ EPA CCID
Health and Safety at Work (Hazardous Substances) Regulations 2017
Hazardous Substances (Minimum Degrees of Hazard) Notice 2017
Hazardous Substances (Safety Data Sheets Notice 2017
Hazardous Substances (Classification) Notice 2017
Labelling of Hazardous Substances Technical Guide 2012

DISCLAIMER
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END OF SDS

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