

Section 1. Identification of the material and the supplier

Product:	Enzystel Triple Enzyme Manual Endoscope and Instrument Cleaner.
Product Use:	Enzymatic Instrument Cleaner. For professional use only. Uses advised against: Uses other than the intended use of the product.
Restrictions of use:	Refer to Section 15
New Zealand Supplier:	Tristel New Zealand Limited 23 Birch Ave, Judea Tauranga, 3110
Telephone:	+64 (7) 577 1560
Fax Number:	+64 (7) 577 1567
Email:	info@tristel.co.nz
Emergency No:	0800 764 766 (National Poison Centre)
Australian Supplier:	Tristel Pty Ltd Unit 44, 328 Reserve Road Cheltenham, VIC, 3192
Telephone No:	1300 680 898 (within Australia) +61 3 958 36181 (outside Australia)
Email:	mail-au@tristel.com
Emergency No:	13 11 26 (National Poison Line)

Section 2. Hazards Identification

Australia – This mixture is hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals, 3rd Revised Edition

NZ - This mixture is hazardous according to EPA Hazardous Substances (Classification) Notice 2020

NZ - EPA Approval Code: None assigned



Pictograms:

Signal Word: WARNING

HSNO Class.	Hazard Code	Hazard Statement	GHS Category
3.1C	H226	Flammable liquid and vapour	Category 3
6.4A	H319	Causes serious eye irritation	Category 2

Prevention Code	Prevention Statement
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241	Use explosion-proof equipment.
P280	Wear protective clothing/protective gloves/eye protection

Response Code	Response Statement
P302 + P352	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Section 3. Composition of hazardous Ingredients

PROPAN-2-OL

EINECS	CAS	GHS Classification	Percent
20-661-7	67-63-0	Flam.Liq.2: H225; Eye Irrit.2: H319; STOT SE 3: H336	10-30%

SODIUM BENZOATE

EINECS	CAS	GHS Classification	Percent
208-534-8	532-32-1	Eye Irrit.2: H319	<1%

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Section 4. First Aid Measures**Routes of Exposure:**

If in Eyes	Bathe the eye with running water for 15 minutes. Consult a doctor.
If on Skin	Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.
If Swallowed	Wash out mouth with water. Consult a doctor.
If Inhaled	Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

Most important symptoms and effects, both acute and delayed

Skin contact	There may be irritation and redness at the site of contact.
Eye contact	There may be irritation and redness. The eyes may water profusely.
Ingestion	There may be soreness and redness of the mouth and throat.
Inhalation	There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Delayed/immediate effects: Immediate effects can be expected after short-term exposure.

Immediate/special treatment: Eye bathing equipment should be available on the premises.

Section 5. Fire Fighting Measures

Hazard Type	The product is flammable.
Hazards from products	In combustion emits toxic fumes.
Suitable Extinguishing media	Alcohol resistant foam, carbon dioxide, dry chemical powder.
Precautions for firefighters and special protective clothing	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.
HAZCHEM CODE	2YE

Section 6. Accidental Release Measures

Refer to section 8 for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorized personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

Do not discharge into drains or rivers. Contain the spillage using bunding.

Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an

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appropriate method. Do not use equipment in clean up procedure which may produce sparks. Dispose of according to Local Regulations.

Section 7.	Handling and Storage
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Handling:

- Read label before use.
- Avoid direct contact with the substance.
- Avoid the formation or spread of mists in the air.
- Do not breathe fumes or vapours or spray.
- Ensure there is sufficient ventilation of the area.
- Smoking is forbidden.
- Use non-sparking tools.
- Wear protective gloves/protective clothing/eye protection.

Storage:

- Store in cool, well ventilated area.
- Keep container tightly closed.
- Keep away from sources of ignition.
- Prevent the build up of electrostatic charge in the immediate area.
- Ensure lighting and electrical equipment are not a source of ignition.
- Must only be kept in original packaging.
- Store away from incompatible materials listed in Section 10.

Section 8	Exposure Controls / Personal Protection
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WORKPLACE EXPOSURE STANDARDS (AUS & NZ)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
PROPAN-2-OL	400	983	500	1230

Engineering Controls

Ensure there is sufficient ventilation of the area.

Personal Protection Equipment

Eyes	Wear safety glasses. Ensure eye bath is to hand.
Hands and Skin	Wear suitable gloves and protective clothing.
Respiratory	Respiratory protection not required.

Section 9	Physical and Chemical Properties
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Appearance	Liquid
Colour	Green

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Odour	Characteristic odour
Odour Threshold	No data available
pH	6.0-8.0
Boiling Point	No data available
Melting Point	No data available
Freezing Point	No data available
Flash Point	32°C
Flammability	No data available
Upper and Lower Explosive Limits	No data available
Vapour Pressure	No data available
Vapour Density	No data available
Relative Density	1.020 – 1.040
Solubility	No data available
Partition Coefficient:	No data available
Auto Ignition temp	No data available
Oxidising	No data available
Viscosity	No data available
Evaporation Rate	No data available
VOC	No data available
Solid content	No data available
VOC	No data available

Section 10. Stability and Reactivity

Stability of Substance	Stable under recommended handling and storage conditions.
Conditions to Avoid	Heat. Hot surfaces. Sources of ignition. Flames.
Incompatible Materials	Strong oxidising agents. Strong Acids.
Hazardous Decomposition Products	In combustion emits toxic fumes.

Section 11 Toxicological Information

Acute Effects:

Ingestion	There may be soreness and redness of the mouth and throat.
Inhalation	There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing and wheezing.
Eye	There may be irritation and redness. The eyes may water profusely.
Skin	There may be irritation and redness at the site of contact.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.

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STOT/SE	Not applicable.
STOT/RE	Not applicable.

Hazardous ingredients:

PROPAN-2-OL

IVN	RAT	LD50	1088 mg/kg
ORL	MUS	LD50	3600 mg/kg
ORL	RAT	LD50	5045 mg/kg
SCU	MUS	LDLO	6 gm/kg

SODIUM BENZOATE

ORAL	RAT	LD50	>2000 mg/kg
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Section 12. Ecotoxicological Information

HSNO Classes: Not applicable

Persistence and degradability	No data available.
Bioaccumulation	No data available.
Mobility in Soil	Readily absorbed into soil. Not classified as environmentally hazardous.
Other adverse effects	No data available

Hazardous ingredients:

SODIUM BENZOATE

FISH	96H LC50	>10	mg/l
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Section 13. Disposal Precautions

Disposal Method: Transfer to a suitable container and arrange for collection by specialized disposal company.

The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14 Transport Information

This product is classified as a Dangerous Good for transport in Australia; ADG 7.7

This product is classified as a Dangerous Good for transport: NZS 5433:2020

UN number or ID number (ADR, IMDG, IATA): UN1993

UN proper shipping name: FLAMMABLE LIQUID, N.O.S (PROPAN-2-OL)

Transport hazard class (es):



Class: 3 Flammable liquids

Label: 3

Packing Group:

ADR, IMDG, IATA: III

Environmental hazards: Not applicable

Special precautions for user: Warning: Flammable liquid

Tunnel code: D/E

Transport category: 3

IMDG segregation group: Not applicable

Section 15 Regulatory Information

Australia:

Australia – This mixture is hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals, 3rd Revised Edition

Poison Schedule No: None assigned

New Zealand:

EPA Approval Code: None assigned

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HSNO Classification: 3.1C, 6.4A

HSNO Controls in New Zealand:

	Trigger Quantity
Approved Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	Not required
Emergency Response Plan	Not required
Secondary Containment	Not required
Restriction of Use	None

Section 16 Other Information

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Glossary

EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms.
LD ₅₀	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

1. EPA Hazardous Substances (Safety Data Sheets) Notice June 2021.
2. Safe Work Australia NOHSC 2011 National Code of Practice.

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices November 2020 EDITION 12-1.

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Disclaimer:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

Please contact the distributor, Tristel, if further information is required.