

TRIODEX®

Section 1. Identification of the material and the supplier

Product: **TRIODEX®**
 Product Use: Antimicrobial skin conditioner for mastitis prevention in dairy cows.
 Restriction of Use: Refer to Section 15

New Zealand Supplier: **Deosan Manufacturing Ltd**
 Address: 20 Seddon Street
 Waharoa
 New Zealand

Email: info@deosan.co.nz
 Telephone: 0800 336 726 (0800 DEOSAN) / +64 7 888 5628
24 Hour Emergency Contact: 0800 243 622 (CHEMCALL)
Emergency No: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 30 June 2025 v2

Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval No: Veterinary Medicines (Non-Dispersive Open System Application) – HSR100759

Pictograms



Signal Word: **Warning**

GHS Classification and Category	Hazard Code	Hazard Statement
Skin irritation Cat. 2	H315	Causes skin irritation.
Skin sensitisation Cat. 1	H317	May cause an allergic skin reaction.
Eye irritation Cat. 2	H319	Causes serious eye irritation.
Hazardous to the aquatic environment chronic Cat. 3	H412	Harmful to aquatic life with long lasting effects.

Prevention Code	Prevention Statement
P103	Read carefully and follow all instructions.
P261	Avoid breathing fumes, vapours or spray.
P264	Wash hands thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective clothing as detailed in SDS Section 8.

Response Code	Response Statement
P302 + P352	IF ON SKIN: Wash with plenty of 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.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash before reuse.

Storage Code	Storage Statement
None Allocated	

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	CAS NUMBER.	Wt%
Citric Acid	77-92-9	<1
Sodium Hydroxide 50%	1310-73-2	<0.5
Potassium Iodate	7758-05-6	<0.1
PVP-Iodine	25655-41-8	10-15
Tomadol 1200	68002-97-1 ; 68439-46-3	1-5
Glycerine	56-81-5	30-40

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Immediately hold eyelids apart and flush the eye continuously with running water. 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. Continue flushing for at least 15 minutes, or until advised to stop by the Poison Centre or a doctor. Transport to hospital or doctor without delay with a copy of this safety data sheet. Removal of contact lenses after an eye injury should be undertaken by skilled personnel.
If on Skin	If irritation or rash occurs, remove contaminated clothing and thoroughly wash skin and hair with running water. Seek medical attention if irritation persists.
If Swallowed	Rinse mouth and drink large quantity of water. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.
If Inhaled	May cause damage to organs through prolonged or repeated exposure. Remove to fresh air and keep at rest in a position comfortable for breathing. Transport to hospital, or doctor without delay with a copy of this safety data sheet if problems persist.

Most important symptoms and effects, both acute and delayed

Symptoms: Causes skin irritation. May cause an allergic skin reaction.
Causes serious eye irritation.
Refer to Section 11 for more information.

Notes to Doctor: Treat symptomatically based on individual reactions of patient and judgement of doctor.

Section 5. Fire Fighting Measures

Hazard Type	Non-Flammable
Hazards from combustion products	None. Non-combustible. Will not self-ignite or explode. Not considered a fire risk, however containers may melt and release product.
Suitable Extinguishing media	In case of fire, use appropriate extinguishing media most suitable for surrounding fire conditions: water, water spray, dry powder, foam, carbon dioxide (CO ₂).
Precautions for firefighters and special protective clothing	Fire-fighters should wear full protective clothing suitable for chemical hazards with self-contained breathing apparatus. The substance must be contained and prevented from entering drains and water courses in all circumstances. Alert Fire Brigade and tell them location and nature of hazard. Clear fire area of all non-emergency personnel.
HAZCHEM CODE	None Allocated

Section 6. Accidental Release Measures

For emergency responders:

Wear protective equipment detailed in Section 8. Keep unnecessary people away from the hazardous area.

Environmental precautions:

Prevent, by any means available, spillage from entering drains or water course.

Methods and material for containment and cleaning up:

MINOR SPILLS

Clean up all spills immediately.

Clear area of all personnel not involved in the clean-up. Avoid contact with skin and eyes.

Wear full protective equipment. Dike spillage area to prevent runoff and contamination of water sources; Clean up by absorbing with sand or soil or diluting with water and then remove contaminants to a chemical disposal area.

MAJOR SPILLS

Clear area of all personnel not involved in the clean-up. Wear full body protective clothing with breathing apparatus.

If possible, dike spillage area to prevent runoff and contamination of water sources. Alert Fire Brigade and tell them location and nature of hazard. An exothermic reaction will occur on exposure to water.

Contain spilled material with sand, earth, vermiculite or another non-combustible material.

Prevent, by any means available, spillage from entering drains or water courses.

Neutralise/decontaminate residue.

Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains.

After clean-up operations, decontaminate and launder all protective clothing and equipment before storing and re-using.

Dispose of as per Section 13.

Section 7. Handling and Storage

Precautions for Handling:

- Read carefully and follow all instructions.
- Avoid breathing fumes, vapours or spray.
- Wash hands thoroughly after handling.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment.
- Wear protective clothing as detailed in SDS Section 8.
- When handling, DO NOT eat, drink, or smoke.
- Keep containers securely sealed when not in use.
- Avoid physical damage to containers.
- Work clothes should be laundered separately. Launder contaminated clothing before re-use.

Precautions for Storage:

- Store away from incompatible materials and foodstuff containers.
- Store in original containers.
- Keep containers securely sealed to protect from moisture contamination.
- Store in a cool, dry, well-ventilated area.
- Protect containers against physical damage and check regularly for leaks.
- Suitable Packaging: Plastic (HDPE) drum.

Section 8	Exposure Controls / Personal Protection
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WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance		TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
Sodium hydroxide	[1310-73-2]	Ceiling	2		
Glycerin (mist)	[56-81-5]	-	10	-	-

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 Feb 2025 15TH EDITION.

Engineering Controls

No specific ventilation systems are required.

Personal Protection Equipment

Eyes	Use approved chemical safety goggles and a full-face shield. Refer to Personal eye protection Part 1: Eye and face protectors for occupational applications, Australian/New Zealand Standard: AS/NZS 1337.1:2010. Ensure that there is ready access to eye wash unit.
Skin	People with an allergy to iodine should wear impervious protective clothing, including chemical resistant boots, gloves, apron or overalls as appropriate to prevent skin contact. Refer to AS/NZS 2161.1:2016 Occupational Protective Gloves – Selection, use and maintenance; AS/NZS 2210.1:2010 for Safety footwear; AS/NZS 4501.1:2008 Occupational protective clothing – Guidelines on the selection, use, care and maintenance of protective clothing.
Respiratory	No specific exposure controls are needed.

Section 9	Physical and Chemical Properties
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Appearance	Viscous Liquid
Colour	Dark Brown
Odour	iodine
Odour Threshold	Not available
pH	4.0 – 4.5
Boiling Point	~100°C
Melting Point	-18°C
Freezing Point	Not available
Flash Point	Not available
Flammability	Non-flammable

Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Specific Gravity	1.09 – 1.11 g/ml
Bulk Density	Not available
Water Solubility	Completely at any amount
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not available

Section 10. Stability and Reactivity

Stability of Substance	Product is stable under normal conditions of use, storage, and temperature.
Possibility of hazardous reactions	None.
Conditions to Avoid	Excessive heat, direct sunlight, moisture, high temperatures.
Incompatible Materials	None.
Hazardous Decomposition Products	None.

Section 11 Toxicological Information

Acute Effects:

Swallowed	This product is not classified as acutely toxic. May cause nausea. Mixture rules calculation: LD50 = 710526 mg/kg
Dermal	This product is not classified as acutely toxic.
Inhalation	This product is not classified as acutely toxic.
Eye	Causes serious eye irritation.
Skin	Causes skin irritation. May cause allergic skin reaction.

Chronic Effects:

Carcinogenicity	This product is not classified as carcinogenic.
Reproductive Toxicity	This product is not classified as toxic for reproduction.
Germ Cell Mutagenicity	This product is not classified as mutagenic.
Aspiration	This product is not classified as Asp Tox.
STOT/SE	This product is not classified as STOT SE.
STOT/RE	This product is not classified as STOT RE.

Section 12. Ecotoxicological Information

Harmful to aquatic life with long lasting effects.

Product:	
Persistence and degradability	No data available.
Bioaccumulation	The substance has no known potential for bioaccumulation.
Mobility	Soluble in water.
Other adverse effects	No data available

Section 13. Disposal Considerations

PRODUCT

Return unwanted product to the manufacturer for disposal or contact the Regional Council for local chemical disposal area details.

Treatment in a biological wastewater treatment system with prior approval and arrangement is also permissible providing that the substance is rendered non-hazardous and does not pose any adverse effects to human health or the environment.

Alternatively consult an approved Waste Management company for disposal options.

PACKAGING

NZ: Triple-rinse empty containers. Contact AgRecovery to arrange for pick-up or drop-off at a collection depot.

Overseas: Triple-rinse empty containers. Dispose of containers in accordance with guidance / regulations from relevant local authorities.

Observe all label safeguards until containers are cleaned and destroyed.



Precautions or methods to avoid: Do not allow to enter waterways.

Section 14 Transport Information

This product is NOT classified as a Dangerous Good for transport in NZ ; NZS 5433:2020 and SNZ HB 5433:2021

Section 15 Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: Veterinary Medicines (Non-Dispersive Open System Application) – HSR100759

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	1000L
Emergency Response Plan	1000L
Secondary Containment	1000L
Restriction of Use	Only use for the intended purpose.

Section 16 Other Information

Glossary

Cat	Category
EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
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

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Feb 2025 15th edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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Please contact the New Zealand distributor, if further information is required.

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