

TEAT-GUARD PLUS

Section 1. Identification

Product name : TEAT-GUARD PLUS

Other means of identification : -

Recommended use of the chemical : Veterinary care

Product dilution information : 1 part Teat Guard Plus to 9 parts water (dry conditions).
1 part Teat Guard Plus to 3 parts water (wet conditions).

Supplier's details : Ecolab Ltd
2 Daniel Place, Te Rapa, Hamilton, New Zealand
Customer Service Phone +64 7 958 2319
Fax number +64 7 958 2361

Emergency telephone number : 0800 243 622 (0800 CHEMCALL)

Date of issue : 17-June-2011

Section 2. Hazards identification

	Product AS SOLD	Product AT USE DILUTION
HSNO Classification	6.3 - SKIN IRRITATION - Category A 6.4 - EYE IRRITATION - Category A (Irritant) 6.5 - SENSITIZATION - Category B (Skin) 6.9 - SPECIFIC TARGET ORGAN TOXICITY (SINGLE OR REPEATED EXPOSURE): ORAL - Category B 9.1 - AQUATIC ECOTOXICITY - Category A	6.3 - SKIN IRRITATION - Category B 6.4 - EYE IRRITATION - Category A (Mild irritant) 6.5 - SENSITIZATION - Category B (Skin) 9.1 - AQUATIC ECOTOXICITY - Category B

Product AS SOLD

This material is classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001 and has been classified according to the Hazardous Substances (Classifications) Regulations 2001.

This material is classified as a dangerous good according to criteria in New Zealand Standard 5433:2007 Transport of Dangerous Goods on Land.

GHS label elements

	Product AS SOLD	Product AT USE DILUTION
Signal word	: Warning	Warning
Hazard statements	: Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May cause damage to organs if swallowed. Very toxic to aquatic life.	Causes mild skin irritation. Causes eye irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.
Precautionary statements		
Prevention	: Wear protective gloves. Wear eye or face protection. Avoid release to the environment. Do not breathe vapour. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.	Read label before use. Wear protective gloves. Avoid release to the environment. Keep out of reach of children. Avoid breathing vapour. Contaminated work clothing should not be allowed out of the workplace. If medical advice is needed: Have product container or label at hand.
Response	: Collect spillage. IF ON SKIN: Take off contaminated clothing and wash before reuse. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Wash hands after handling. IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.	Collect spillage. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Wash hands after handling.

Section 2. Hazards identification

Storage	: Store locked up.	Not applicable. Dispose of contents and container in accordance with all local, regional, national and international regulations.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.	
Symbol	: 	

Section 3. Composition/information on ingredients

Product AS SOLD

Ingredient name	%	CAS number
poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-glucitol	5 - 20	9016-45-9
glycerin	5 - 20	50-70-4
iodine	5 - 20	56-81-5
sodium iodide	1 - 5	7553-56-2
	< 1.0	7681-82-5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Product AT USE DILUTION

Ingredient name	%	CAS number
poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-glucitol	1 - 5	9016-45-9
glycerin	1 - 5	50-70-4
iodine	1 - 5	56-81-5
sodium iodide	< 1.0	7553-56-2
	< 1.0	7681-82-5

Section 4. First-aid measures

Description of necessary first aid measures

	Product AS SOLD	Product AT USE DILUTION
Inhalation	: If inhaled, remove to fresh air.	If inhaled, remove to fresh air.
Ingestion	: Do not induce vomiting. Never give anything by mouth to an unconscious person. If irritation persists, get medical attention.	Do not induce vomiting. Never give anything by mouth to an unconscious person. If irritation persists, get medical attention.
Skin contact	: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Get medical attention if irritation persists. Wash clothing before reuse. Clean shoes thoroughly before reuse.	In case of contact, immediately flush skin with plenty of water. Get medical attention if irritation persists. Wash clothing before reuse. Clean shoes thoroughly before reuse. Remove contaminated clothing and shoes.
Eye contact	: In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention if irritation persists.	In case of contact, immediately flush eyes with plenty of water. Remove contact lenses and flush again. Get medical attention if irritation persists.
Notes to physician	: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	

See toxicological information (section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable** : Use water spray, fog or foam.
- Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
halogenated compounds
- Special precautions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

	Product AS SOLD	Product AT USE DILUTION
Personal precautions, protective equipment and emergency procedures	: Use suitable protective equipment (section 8). Do not allow to enter drains or watercourses.	Use suitable protective equipment (section 8). Do not allow to enter drains or watercourses.
Environmental precautions	: May be harmful to the environment if released in large quantities. Do not allow to enter drains or watercourses. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).	May be harmful to the environment if released in large quantities. Do not allow to enter drains or watercourses. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for containment and cleaning up		
Small spill:	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see section 1 for emergency contact information and section 13 for waste disposal.	Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Section 7. Handling and storage

	Product AS SOLD	Product AT USE DILUTION
Precautions for safe handling	: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.	Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
Conditions for safe storage, including any incompatibilities	: Keep out of reach of children. Keep container tightly closed. Keep container in a cool, well-ventilated area.	Keep out of reach of children. Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 7. Handling and storage

Store between the following temperatures: 0
and 30°C

Section 8. Exposure controls/personal protection

Control parameters

Product AS SOLD

Occupational exposure limits

Ingredient name	Exposure limits
glycerin	NZ OSH (New Zealand, 1/2002). WES-TWA: 10 mg/m ³ 8 hour(s). Form: Inspirable dust containing no asbestos and less than 1% free silica
iodine	NZ OSH (New Zealand, 1/2002). WES-Ceiling: 1 mg/m ³ WES-Ceiling: 0.1 ppm
sodium iodide	ACGIH TLV (United States, 2/2010). TWA: 0.01 ppm 8 hour(s). Form: Inhalable fraction and vapor

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Product AT USE DILUTION

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Respiratory protection : A respirator is not needed under normal and intended conditions of product use.

A respirator is not needed under normal and intended conditions of product use.

Hand protection : Use chemical-resistant, impervious gloves.

Use chemical-resistant, impervious gloves.

Eye protection : Wear eye protection.

Wear eye or face protection:

Skin protection : No protective equipment is needed under normal use conditions.

No protective equipment is needed under normal use conditions.

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

Section 9. Physical and chemical properties

	Product AS SOLD
Physical state	: Liquid.
Colour	: Brown
Odour	: iodine
pH	: 3.2 to 4.2 (100%)
Flash point	: > 100°C
Boiling point	: Not available.
Vapour pressure	: Not available.
Vapour density	: Not available.
Relative density	: 1.106 to 1.128
Solubility	: Not available.

Product AT USE DILUTION

Liquid.
Brown [Light]
iodine
4.2 to 4.7
> 100°C

Section 10. Stability and reactivity

Chemical stability	: The product is stable.
Conditions to avoid	: No specific data.
Incompatible materials	: Reactive or incompatible with the following materials: alkalis.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on the likely routes of exposure

	Product AS SOLD
Inhalation	: No known significant effects or critical hazards.
Ingestion	: May cause damage to organs following a single exposure if swallowed. Irritating to mouth, throat and stomach.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Eye contact	: Causes serious eye irritation.

Product AT USE DILUTION

No known significant effects or critical hazards.
Irritating to mouth, throat and stomach.

Causes mild skin irritation. May cause an allergic skin reaction.

Causes eye irritation.

Product AS SOLD

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)- .omega.-hydroxy- glucitol iodine sodium iodide	LD50 Oral	Rat	1310 mg/kg	-
	LD50 Oral	Rat	15900 mg/kg	-
	LD50 Oral	Rat	14 g/kg	-
	LD50 Oral	Rat	4340 mg/kg	-

Potential chronic health effects

Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

Section 12. Ecological information

Product AS SOLD

Ecotoxicity	: This material is very toxic to aquatic life.
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Product AT USE DILUTION

This material is toxic to aquatic life with long lasting effects.

Product AS SOLD

Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)- .omega.-hydroxy- glycerin iodine	Acute LC50 1.3 mg/L	Fish	96 hours
	Acute LC50 4.7 mg/L	Fish	96 hours
	Acute LC50 7.6 mg/L	Fish	96 hours
	Acute LC50 7.9 mg/L	Fish	96 hours
	Acute LC50 >10 mg/L	Fish	96 hours
	Acute LC50 >1000 mg/L	Fish	96 hours
	Acute LC50 54000 mg/L	Fish	96 hours
	Acute EC50 0.33 mg/L	Daphnia	48 hours
	Acute LC50 0.59 mg/L	Daphnia	96 hours
	Acute LC50 0.85 mg/L	Daphnia	96 hours
	Acute LC50 >0.01 mg/L	Fish	96 hours
	Acute LC50 0.53 mg/L	Fish	96 hours
	Acute LC50 1.67 mg/L	Fish	96 hours
sodium iodide	Acute LC50 170 to 180 ug/L Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 860000 ug/L Fresh water	Fish - Oncorhynchus mykiss -	96 hours

Section 12. Ecological information

FRY

Persistence/degradability

Not available.

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Section 13. Disposal considerations

Disposal methods

Product AS SOLD

: The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Product AT USE DILUTION

The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

Product AS SOLD

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

Regulatory information	UN number	Proper shipping name	Classes	PG*	Additional information
New Zealand Class NZS 5433	Not regulated.	-	-	-	-
IMDG Class	Not regulated.	-	-	-	-

PG* : Packing group

Special Safety Measures and Conditions: During transport, avoid direct sunlight, container damage, corrosion, loading to ensure that all work will be done to ensure the prevention of collapse of cargo.

See shipping documents for specific transportation information.

Product AT USE DILUTION

Not intended for transport.

Section 15. Regulatory information

Product AS SOLD

HSNO Approval Number : HSR002521

HSNO Group Standard : Animal Nutritional and Animal Care Products Group Standard 2006

HSNO Classification : 6.3 - SKIN IRRITATION - Category A
6.4 - EYE IRRITATION - Category A (Irritant)
6.5 - SENSITIZATION - Category B (Skin)
6.9 - SPECIFIC TARGET ORGAN TOXICITY (SINGLE OR REPEATED EXPOSURE): ORAL - Category B
9.1 - AQUATIC ECOTOXICITY - Category A

Product AT USE DILUTION

HSR002521

Animal Nutritional and Animal Care Products Group Standard 2006

6.3 - SKIN IRRITATION - Category B
6.4 - EYE IRRITATION - Category A (Mild irritant)
6.5 - SENSITIZATION - Category B (Skin)
9.1 - AQUATIC ECOTOXICITY - Category B

Section 15. Regulatory information

New Zealand Inventory of Chemicals (NZIoC) : All components are listed or exempted.

Safety, health and environmental regulations specific for the product : ERMA NZ Registration Number : ACVM No:A03617

Hazardous Substance Location trigger quantity : N/A
Approved Handler trigger quantity : N/A
Secondary containment trigger quantity : 1,000 L
Signage trigger quantity : 100 L
Emergency Response Plan trigger quantity: 1,000 L
The trigger quantities above must take into account any other hazardous substance that is present at that location.

Section 16. Other information

History

Date of previous issue : No previous validation.

Version : 1

Prepared by : Regulatory Affairs

References : NZS 5433:2007 Transport of Dangerous Goods on Land

Land Transport (Dangerous Goods) Rule 45001:2005

Hazardous Substances Regulations 2001:

- Minimum Degrees of Hazard
- Classification
- Classes 1 to 5 Controls
- Classes 6, 8 and 9 Controls
- Packaging Regulations
- Identification Regulations
- Disposal Regulations
- Emergency Management

Health and Safety in Employment Regulations 1995

User Guide to the HSNO Thresholds and Classifications

OSH Workplace Exposure Standards January 2002

NZCIC Approved Code of Practice – Preparation of Safety Data Sheets

Signage for premises storing hazardous substances and dangerous goods

▣ Indicates information that has changed from previously issued version.

Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, **NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.**