

## SAFETY DATA SHEET

#### Ketol

#### Section 1. Identification

: Ketol **Product identifier** 

**Product code** : 122000017839

Other means of

identification

: 59274523; 59368919; 59368927; 59368935; 59369486

#### Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** : Veterinary therapeutic

Uses advised against : None known.

: Elanco New Zealand **Company Name** 

106 Wiri Station Road, Manukau, Auckland 2140

: +64 0800 352 626 Telephone number

0800 446 121 (Adverse Events Local Number)

**Emergency telephone** 

number

: CHEMTREC International: 00 1 703-527-3887 (24 hours)

CHEMTREC: +64 9-801 0034 (Local) CHEMTREC: 0800 425 459 (Freephone)

**Email** : elanco sds@elancoah.com

## Section 2. Hazards identification

**HSNO Approval Number** : HSR002521

**HSNO Group Standard** : Animal Nutritional and Animal Care Products **HSNO Classification** : RESPIRATORY SENSITISATION - Category 1

> SKIN SENSITISATION - Category 1 REPRODUCTIVE TOXICITY - Category 2

This material is classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification) Notice 2020.

This material is not classified as DANGEROUS GOODS according to criteria in New Zealand Standard 5433:2020 Transport of Dangerous Goods on Land.

#### **GHS label elements**

Signal word : Danger

: H317 - May cause an allergic skin reaction. **Hazard statements** 

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H361 - Suspected of damaging fertility or the unborn child.

#### **Precautionary statements**

**Prevention** : P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves, protective clothing, eye protection, face protection,

or hearing protection.

P284 - Wear respiratory protection. P261 - Avoid breathing vapour.

P272 - Contaminated work clothing should not be allowed out of the workplace.

: P308 + P313 - IF exposed or concerned: Get medical advice or attention. Response

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for

breathing.

P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or

P362 + P364 - Take off contaminated clothing and wash it before reuse.

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.

**Storage** : P405 - Store locked up.

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## Section 2. Hazards identification

**Disposal** 

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Symbol** 

Other hazards which do not : None known. result in classification

## Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	% (w/w)	CAS number
propane-1,2-diol	≥75 - ≤90	57-55-6
Choline chloride	≤3	67-48-1
Cobalt sulphate, heptahydrate	<0.25	10026-24-1

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.

### Section 4. First aid measures

#### **Description of necessary first aid measures**

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. In the event of any complaints or symptoms, avoid further exposure.

Ingestion

: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Eye contact** 

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Inhalation : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Ingestion : No known significant effects or critical hazards.

**Skin contact** : May cause an allergic skin reaction.

**Eye contact** : No known significant effects or critical hazards.

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## Section 4. First aid measures

#### Over-exposure signs/symptoms

Inhalation : Adverse symptoms may include the following:

wheezing and breathing difficulties

asthma

reduced foetal weight increase in foetal deaths skeletal malformations

Ingestion : Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

Skin : Adverse symptoms may include the following:

> irritation redness

reduced foetal weight increase in foetal deaths skeletal malformations

: No specific data. **Eyes** 

#### Indication of immediate medical attention and special treatment needed, if necessary

Specific treatments : No specific treatment.

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. Notes to physician

The exposed person may need to be kept under medical surveillance for 48 hours.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate

mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing

thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Firefighting measures

#### **Extinguishing media**

**Suitable** : Use an extinguishing agent suitable for the surrounding fire.

Not suitable None known.

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal** decomposition products : Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides

halogenated compounds

Hazchem code

Not available.

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

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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## Section 6. Accidental release measures

#### **Environmental precautions**

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and material 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.

#### 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.

## Section 7. Handling and storage

#### **Protective measures**

**Protective measures** 

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitisation problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

## Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# Conditions for safe storage, including any incompatibilities

: Do not store above the following temperature: 30°C (86°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits
propane-1,2-diol	HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand, 11/2020).  WES-TWA: 10 mg/m³ 8 hours. Form: Particulate WES-TWA: 150 ppm 8 hours. Form: Vapor and particulates  WES-TWA: 474 mg/m³ 8 hours. Form: Vapor and particulates  EH40/2005 WELs (United Kingdom (UK), 1/2020).

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## Section 8. Exposure controls/personal protection

TWA: 10 mg/m3 8 hours. Form: Particulate

TWA: 474 mg/m<sup>3</sup> 8 hours. Form: total vapour and

particulates

TWA: 150 ppm 8 hours. Form: total vapour and

particulates

Safe Work Australia (Australia, 12/2019). TWA: 10 mg/m<sup>3</sup> 8 hours. Form: Particulate

TWA: 150 ppm 8 hours. Form: Vapor and particulates TWA: 474 mg/m<sup>3</sup> 8 hours. Form: Vapor and particulates

Sulfuric acid, cobalt(2+) salt, hydrate (1:1:7)

EH40/2005 WELs (United Kingdom (UK), 1/2020). [cobalt and cobalt compounds] Inhalation sensitiser.

TWA: 0.1 mg/m³, (as Co) 8 hours.

#### **Biological exposure indices**

Ingredient name	Exposure indices
Cobalt sulphate, heptahydrate	HSWA 2015 - HSW (GRWM) 2016. Biological exposure indices (BEI) (New Zealand, 11/2020) [cobalt] BEI: 15 µg/l, cobalt [in urine]. Sampling time: end of shift at end of work week.

#### **Appropriate engineering** controls

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### **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.

#### **Individual protection measures**

#### **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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Eye/face protection**

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

#### **Skin protection**

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

#### **Body protection**

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

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## Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### **Appearance**

Physical state : Liquid.

Colour : Clear. Pale colour. Pink

Odour : Faint odour.
Odour threshold : Not available.
pH : 6.5 to 8

Melting point/freezing point : Not available.
Boiling point, initial boiling : Not available.

point, and boiling range

Flash point :

:			Closed cup			Open cup			
	Ingredient name	°C	°F	Method	°C	°F	Method		
	acetic acid	39	102.2						
	propane-1,2-diol	99	210.2						
:	Not available.	•	•		•	•			

Evaporation rate
Flammability
Lower and upper explosion
limit/flammability limit

Not available.Not available.

Vapour pressure :		Vapour Pressure at 20°C			Vapour pressure at 50°C		
	Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
	water	23.8	3.2				
	acetic acid	15.59	2.1				
	propane-1,2-diol	0.15	0.02	EU A.4			

Relative vapour density Relative density Solubility(ies) Not available.1.04 to 1.05

choline chloride

1.04 (0 1.05

Media	Result
	Easily soluble Easily soluble

Solubility in water

Partition coefficient: n-

octanol/water

Not available.Not applicable.

**Auto-ignition temperature** 

:	Ingredient name	°C	°F	Method
•	choline chloride	330	626	
	propane-1,2-diol	371	699.8	
	acetic acid	463	865.4	

Decomposition temperature: Not available.Viscosity: Not available.Flow time (ISO 2431): Not available.

**Particle characteristics** 

Median particle size : Not applicable.

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## Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**: The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

**Incompatible materials**: No specific data.

**Hazardous decomposition** 

products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

## Section 11. Toxicological information

#### Information on likely routes of exposure

**Inhalation** : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Ingestion** : No known significant effects or critical hazards.

**Skin contact**: May cause an allergic skin reaction.

**Eye contact** : No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Inhalation** : Adverse symptoms may include the following:

wheezing and breathing difficulties

asthma

reduced foetal weight increase in foetal deaths skeletal malformations

**Ingestion**: Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

**Skin contact**: Adverse symptoms may include the following:

irritation redness

reduced foetal weight increase in foetal deaths skeletal malformations

**Eye contact** : No specific data.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
propane-1,2-diol	LD50 Dermal	Rabbit	20800 mg/kg	-
	LD50 Oral	Rat	20 g/kg	-
Choline chloride	LD50 Oral	Rat	3400 mg/kg	-
Cobalt sulphate, heptahydrate	LD50 Oral	Rat	582 mg/kg	-

**Irritation/Corrosion** 

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## **Section 11. Toxicological information**

Product/ingredient name	Result	Species	Score	Exposure	Observation
propane-1,2-diol	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Mild irritant	Human	-	168 hours	-
	Chin Milelimiteret	14/		500 mg	
	Skin - Mild irritant	Woman	-	96 hours 30 %	-
	Skin - Moderate irritant	Child	-	96 hours 30	-
				% C	
	Skin - Moderate irritant	Human	-	72 hours 104	-
				mg I	

#### **Sensitisation**

Not available.

#### Potential chronic health effects

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

Inhalation : Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

**Ingestion** : No known significant effects or critical hazards.

**Skin contact** : Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

**Eye contact**: No known significant effects or critical hazards.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity**: No known significant effects or critical hazards.

**Teratogenicity** : Suspected of damaging the unborn child.

**Developmental effects**: No known significant effects or critical hazards.

Fertility effects : Suspected of damaging fertility.

**Chronic toxicity** 

Not available.

Carcinogenicity

Not available.

**Mutagenicity** 

Not available.

**Teratogenicity** 

Not available.

**Reproductive toxicity** 

Not available.

#### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Cobalt sulphate, heptahydrate	Category 3		Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Product/ingredient name		Route of exposure	Target organs
Cobalt sulphate, heptahydrate	Category 1	-	-

#### **Aspiration hazard**

Not available.

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## **Section 11. Toxicological information**

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
propane-1,2-diol	20000	20800	N/A	N/A	N/A
Choline chloride	3400	N/A	N/A	N/A	N/A
Cobalt sulphate, heptahydrate	582	N/A	N/A	N/A	N/A

## Section 12. Ecological information

**Ecotoxicity** 

: No known significant effects or critical hazards.

#### Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
propane-1,2-diol	EC50 19000 mg/l	Aquatic plants	72 hours
	EC50 34400 mg/l	Daphnia	48 hours
	Acute LC50 1020000 μg/l Fresh water	Crustaceans - Ceriodaphnia dubia	48 hours
choline chloride	Acute LC50 710000 µg/l Fresh water Acute EC50 >320 mg/l Marine water	Fish - Pimephales promelas Daphnia - Daphnia magna	96 hours 48 hours
	Acute LC50 >1000 mg/l Marine water	Crustaceans - Chaetogammarus marinus - Young	48 hours
	Acute LC50 >10000 mg/l	Fish - Leuciscus idus	96 hours

#### Persistence/degradability

Product/ingredient name	Test	Result		Dose	Inoculum
propane-1,2-diol	OECD 301F Ready Biodegradability - Manometric Respirometry Test	38 % - Not readily -	28 days	-	-
Product/ingredient name	Aquatic half-life		Photolysi	s	Biodegradability
propane-1,2-diol	-		-		Not readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
propane-1,2-diol	-1.07	-	Low
choline chloride	-5.16	-	Low

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects : No known significant effects or critical hazards.

## Section 13. Disposal considerations

#### **Disposal methods**

The generation of waste should be avoided or minimised wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or

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## Section 13. Disposal considerations

liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## **Section 14. Transport information**

	New Zealand - Land - road/ railway	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Transport in bulk according

to IMO instruments

: Not available.

## Section 15. Regulatory information

**HSNO Approval Number** : HSR002521

: Animal Nutritional and Animal Care Products **HSNO Group Standard** : RESPIRATORY SENSITISATION - Category 1 **HSNO Classification** 

> SKIN SENSITISATION - Category 1 REPRODUCTIVE TOXICITY - Category 2

**ACVM No.** A000110

**Inventory list** 

**New Zealand** : Not determined.

## **Section 16. Other information**

**History** 

Date of issue/Date of

revision

: 7/25/2023

Date of previous issue

: No previous validation

**Version** 

: 0.01

Key to abbreviations

ADG = Australian Dangerous Goods

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

RID = The Regulations concerning the International Carriage of Dangerous Goods

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## Section 16. Other information

by Rail

SGG = Segregation Group UN = United Nations

References : Not available.

▼ Indicates information that has changed from previously issued version.

#### **Notice to reader**

As of the date of issuance, we are providing available information relevant to the handling of this material in the workplace. All information contained herein is offered with the good faith belief that it is accurate. THIS SAFETY DATA SHEET SHALL NOT BE DEEMED TO CREATE ANY WARRANTY OF ANY KIND (INCLUDING WARRANTY OF MERCHANT ABILITY OR FITNESS FOR A PARTICULAR PURPOSE). In the event of an adverse incident associated with this material, this safety data sheet is not intended to be a substitute for consultation with appropriately trained personnel. Nor is this safety data sheet intended to be a substitute for product literature which may accompany the finished product.

For additional information contact: Elanco Animal Health 0011+1-877-352-6261 0011+1-800-428-4441

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