

# SAFETY DATA SHEET

### **Growmix Shrimp**

# Section 1. Identification

**Product identifier** : Growmix Shrimp **Product code** : 122000015257

Other means of Excel Aqua Basic Carp; Excel Aqua Basic Shrimp; 81788995; 82293248; 81666563; identification

81666555; 81659982

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

**Identified uses** : animal feed Uses advised against : None known.

: Elanco India Private Ltd. **Company Name** 

Western Edge I, Unit 201 Near Western Express Highway Mumbai, Borivali (East), IN 400066

Telephone number : +91 22 62431228

**Emergency telephone** 

number

: CHEMTREC International: 00 1 703-527-3887 (24 hours) CHEMTREC: +91 8071 279 207 (Local)

CHEMTREC: 000 800 1007 141 (Freephone)

**Email** : elanco sds@elancoah.com **Manufacturer Name** : PAI Veterinary PVT. LTD.

Plot No-B-9, Anandnagar MIDC, Additional Ambernath, Dist-Thane

**Manufacturer Telephone** 

number

: +91 251 262 1991

# Section 2. Hazard identification

Classification of the substance or mixture : SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 86.5%

**GHS label elements** 

**Hazard pictograms** 



Signal word

May cause damage to organs through prolonged or repeated exposure. **Hazard statements** 

Harmful to aquatic life with long lasting effects.

**Precautionary statements** 

**Prevention** : Avoid release to the environment. Do not breathe dust or mist.

: Get medical advice/attention if you feel unwell. Response

: Not applicable. **Storage** 

**Disposal** : Dispose of contents and container in accordance with all local, regional, national

and international regulations.

result in classification

Other hazards which do not : May form combustible dust concentrations in air.

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# Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
3,4-dihydro-2,5,7,8-tetramethyl-2-(4,8,12-trimethyltridecyl)-2H-benzopyran-6-yl acetate	≤3	7695-91-2
menadione sodium bisulfite	<1	130-37-0
colecalciferol	<1	67-97-0
zinc oxide	<0.1	1314-13-2

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**

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 following exposure or if feeling unwell.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Inhalation

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 following exposure or if feeling unwell. 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.

**Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention following

exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly

: Wash out mouth with water. Remove dentures if any. If material has been

before reuse.

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 following exposure or if feeling unwell. 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

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collar, tie, belt or waistband.

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

### Potential acute health effects

Ingestion

**Eye contact** : Exposure to airborne concentrations above statutory or recommended exposure

limits may cause irritation of the eyes.

Inhalation : Exposure to airborne concentrations above statutory or recommended exposure

limits may cause irritation of the nose, throat and lungs.

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

Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

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

> irritation redness

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# Section 4. First aid measures

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

respiratory tract irritation

coughing

Skin contact : No specific data. Ingestion No specific data.

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

Notes to physician

: 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.

**Specific treatments** 

: No specific treatment.

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

### See toxicological information (Section 11)

# Section 5. Firefighting measures

### **Extinguishing media**

Suitable extinguishing media

: Use dry chemical powder.

**Unsuitable extinguishing** media

: Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.

Specific hazards arising from the chemical

: May form explosible dust-air mixture if dispersed. This material is harmful to aquatic life with long lasting effects. 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 nitrogen oxides

Special protective actions 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. 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".

**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). Water polluting material. May be harmful to the environment if released in large quantities.

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# Section 6. Accidental release measures

### Methods and material for containment and cleaning up

### **Small spill**

: Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.

#### Large spill

Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

### **Precautions for safe handling**

#### **Protective measures**

: Put on appropriate personal protective equipment (see Section 8). Do not breathe dust. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. 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. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. 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.

# including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and wellventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidising materials. 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
zinc oxide	ACGIH TLV (United States, 1/2023).  TWA: 2 mg/m³ 8 hours. Form: Respirable fraction  STEL: 10 mg/m³ 15 minutes. Form: Respirable fraction

#### **Biological exposure indices**

No exposure indices known.

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# Section 8. Exposure controls/personal protection

# 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. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation 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.

### **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. 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. If operating conditions cause high dust concentrations to be produced, use dust goggles.

#### 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.

# 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
Colour
Colour
White. Pale yellow
Codour
Not available.
Not available.
Ph
Not available.

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# Section 9. Physical and chemical properties and safety characteristics

Flash point : Not applicable.
Evaporation rate : Not available.
Flammability : Not available.
Lower and upper explosion : Not applicable.

Lower and upper explosion limit/flammability limit

Vapour pressure : Not available.
Relative vapour density : Not applicable.
Relative density : Not available.
Solubility(ies) : Not available.
Solubility in water : Not available.

Partition coefficient: n-octanol/water

: Not applicable.

Auto-ignition temperature : Not applicable.

Decomposition temperature : Not available.

Viscosity : Not applicable.

Flow time (ISO 2431) : Not available.

**Particle characteristics** 

Median particle size : Not available.

# 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** 

: Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation.

Incompatible materials

 Reactive or incompatible with the following materials: oxidising materials

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **Section 11. Toxicological information**

### Information on toxicological effects

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
3,4-dihydro- 2,5,7,8-tetramethyl-2- (4,8,12-trimethyltridecyl)-2H- benzopyran-6-yl acetate	LD50 Dermal	Rat	>3000 mg/kg	-
menadione sodium bisulfite colecalciferol	LD50 Oral LD50 Oral LC50 Inhalation Dusts and mists LD50 Dermal	Rat Rat Rat Rabbit	>5000 mg/kg 4902 mg/kg 0.13 to 0.38 mg/l 61 mg/kg	- - 4 hours -

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	LD50 Oral	Rat	35 mg/kg	-
zinc oxide	LD50 Oral	Rat	>5000 mg/kg	-

### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
zinc oxide	Eyes - Mild irritant Skin - Mild irritant	Rabbit Rabbit		24 hours 500 mg 24 hours 500 mg	

#### **Sensitisation**

Not available.

#### **Mutagenicity**

Product/ingredient name	Test	Experiment	Result
colecalciferol	Micronucleus test	Experiment: In vivo Subject: Mammalian-Animal	Negative

### **Carcinogenicity**

Not available.

#### Reproductive toxicity

Not available.

### **Teratogenicity**

Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Name	,	Route of exposure	Target organs
colecalciferol	Category 1	-	-

### **Aspiration hazard**

Not available.

Information on likely routes

of exposure

: Not available.

### Potential acute health effects

Eye contact

: Exposure to airborne concentrations above statutory or recommended exposure

limits may cause irritation of the eyes.

**Inhalation** : Exposure to airborne concentrations above statutory or recommended exposure

limits may cause irritation of the nose, throat and lungs.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

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

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

irritation redness

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

respiratory tract irritation

coughing

Skin contact: No specific data.Ingestion: No specific data.

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# **Section 11. Toxicological information**

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

**Short term exposure** 

**Potential immediate** 

effects

: Not available.

**Potential delayed effects** 

: Not available.

**Long term exposure** 

**Potential immediate** 

: Not available.

effects

Potential delayed effects : Not available.

### Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
3,4-dihydro- 2,5,7,8-tetramethyl-2- (4,8,12-trimethyltridecyl)-2H- benzopyran-6-yl acetate	Chronic NOAEL Oral	Rat	2000 mg/kg	-

**General** 

: May cause damage to organs through prolonged or repeated exposure. Repeated

or prolonged inhalation of dust may lead to chronic respiratory irritation.

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.

No known significant effects or critical hazards.

### **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)
Growmix Shrimp 3,4-dihydro-2,5,7,8-tetramethyl-2-	N/A N/A		-	N/A N/A	N/A N/A
(4,8,12-trimethyltridecyl)-2H-benzopyran-6-yl acetate menadione sodium bisulfite colecalciferol		N/A	N/A	N/A N/A	N/A 0.05

# **Section 12. Ecological information**

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
3,4-dihydro- 2,5,7,8-tetramethyl-2- (4,8,12-trimethyltridecyl)-2H- benzopyran-6-yl acetate	EC50 >100 mg/l	Algae - Pseudokirchneriella subcapitata (green algae)	72 hours
	NOEC 100 mg/l	Algae - Pseudokirchneriella subcapitata (green algae)	72 hours
	NOEC 100 mg/l	Fish - Oncorhynchus mykiss (rainbow trout)	96 hours
	Acute EC50 >100 mg/l	Daphnia - <i>Daphnia magna</i> ( <i>Water flea</i> )	48 hours
	Acute LC50 >100 mg/l	Fish - Oncorhynchus mykiss (rainbow trout)	96 hours

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colecalciferol	NOEC 100 mg/l	Algae - Pseudokirchneriella subcapitata (green algae)	96 hours
	NOEC 100 mg/l	Daphnia - Daphnia magna (Water flea)	48 hours
	NOEC >10000 mg/l	Fish - Leuciscus idus (Golden orfe)	96 hours
zinc oxide	LC50 0.315 mg/l	Fish	96 hours
	NOEC 0.1902 mg/l	Algae	2 days
	NOEC 0.031 mg/l	Daphnia - Daphnia magna	50 days
	NOEC 0.44 mg/l	Fish - Oncorhynchus mykiss	72 days
	Acute IC50 1.85 mg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute LC50 98 μg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours

#### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
3,4-dihydro-	OECD 302C	84 % - Inherent - 28 days	-	-
2,5,7,8-tetramethyl-2-	302C Inherent			
(4,8,12-trimethyltridecyl)-2H-	Biodegradability:			
benzopyran-6-yl acetate	Modified MITI			
	Test (II)			
	OECD 301F	17 % - Not readily - 28 days	-	-
	301F Ready			
	Biodegradability -			
	Manometric			
	Respirometry			
	Test			
colecalciferol	OECD 301C	7 % - Not readily - 28 days	-	-
	301C Ready			
	Biodegradability -			
	Modified MITI			
	Test (I)			
	1			

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
3,4-dihydro-	-	-	Not readily
2,5,7,8-tetramethyl-2-			
(4,8,12-trimethyltridecyl)-2H-			
benzopyran-6-yl acetate			
colecalciferol	-	-	Not readily

## **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
zinc oxide	-	28960	High

### **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 liners may retain some product residues. Avoid dispersal of spilt material and runoff

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# Section 13. Disposal considerations

and contact with soil, waterways, drains and sewers.

# **Section 14. Transport information**

	UN	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: Not available.

to IMO instruments

# Section 15. Regulatory information

#### International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

**Montreal Protocol** 

Not listed.

**Stockholm Convention on Persistent Organic Pollutants** 

Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)** 

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed.

No additional information.

# **Section 16. Other information**

**History** 

Date of issue/Date of

: 4/22/2024

revision

Date of previous issue : No previous validation

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# Section 16. Other information

Key to abbreviations

: 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)

N/A = Not available SGG = Segregation Group

UN = United Nations

#### Procedure used to derive the classification

Classification	Justification
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	Calculation method Calculation method Calculation method

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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