

SAFETY DATA SHEET

Growmix Shrimp

Section 1. Identification

UN number	: Not regulated.
Product identifier	: Growmix Shrimp
Product code	: 122000015257
Other means of identification	: Excel Aqua Basic Carp; Excel Aqua Basic Shrimp; 81788995; 82293248; 81666563; 81666555; 81659982
Relevant identified uses of the	e substance or mixture and uses advised against
Identified uses	: animal feed
Uses advised against	: None known.
Company Name	: Elanco Vietnam Company Limited 11 Doan Van Bo Street, 24th Floor Ward 13, District 4 Ho Chi Minh City, VN
Telephone number	: +8428 38166266
Emergency telephone number	: CHEMTREC International: 00 1 703-527-3887 (24 hours)
Email	: elanco_sds@elancoah.com

Section 2. Hazards identification

Classification of the substance or mixture	:	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
		Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 86.5%
GHS label elements		
Hazard pictograms	1	
Signal word	:	Warning
Hazard statements	:	H373 - May cause damage to organs through prolonged or repeated exposure.
Precautionary statements		
Prevention	1	P260 - Do not breathe dust or mist.
Response	1	P314 - Get medical advice or attention if you feel unwell.
Storage	:	Not applicable.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in classification	:	May form combustible dust concentrations in air.

Section 3. Composition/information on ingredients

: Mixture

oubstance/mixture	Subst	ance/m	nixture	l.
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Ingredient name	CAS number	%
3,4-dihydro-2,5,7,8-tetramethyl-2-(4,8,12-trimethyltridecyl)-2H-benzopyran- 6-yl acetate	7695-91-2	≤3
colecalciferol	67-97-0	<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 necess	sary 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.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 before reuse.
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 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 collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

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Potential acute health effe	ects
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/sym	uptoms
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.

Section 4. First aid measures

Indication of immediate medical attention and special treatment needed, if ne	:essary

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. Fire-fighting 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.
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, protec	ve 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 spilled material. Shut off all ignition source 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.	es.
For emergency responders	If specialized 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 spilled 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 materials 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.

Section 6. Accidental release measures

Large spill

: Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach 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	1	
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 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 grounding 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.
Conditions for safe storage, including any incompatibilities	:	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 well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing 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 unlabeled 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
None.	

Biological exposure indices

No exposure indices known.

Appropriate engineering controls	: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor 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, vapor 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

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Section 8. Exposure controls/personal protection

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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	:	Solid. [Powder.]
Color	:	White. Pale yellow
Odor	:	Not available.
Odor threshold	:	Not available.
рН	:	Not available.
Melting point/freezing point	:	Not available.
Boiling point, initial boiling point, and boiling range	:	Not available.
Flash point	:	Not applicable.
Evaporation rate	:	Not available.
Flammability	:	Not available.
Lower and upper explosion limit/flammability limit	:	Not applicable.
Vapor pressure	:	Not available.
Relative vapor density	:	Not applicable.
Relative density	1	Not available.
Solubility(ies)	:	Not available.
Solubility in water	:	Not available.

Section 9. Physical and chemical properties and safety characteristics

Partition coefficient: n- octanol/water	: Not applicable.
	. Natanuliashla
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 ingredier	nts.	
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 grounding and bonding containers and equipment before transferring material. Prevent duraccumulation.	s. J	
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing 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	-
colecalciferol	LD50 Oral LC50 Inhalation Dusts and mists LD50 Dermal LD50 Oral	Rat Rat Rabbit Rat	>5000 mg/kg 0.13 to 0.38 mg/l 61 mg/kg 35 mg/kg	- 4 hours - -

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

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

Carcinogenicity

Not available.

Section 11. Toxicological information

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 the likely routes of exposure	:	Not available.
Potential acute health effect	<u>s</u>	
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 phy	ysio	cal, 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	1	No specific data.
	<u>cts</u>	and also chronic effects from short and long term exposure
Short term exposure		
Potential immediate effects	-	Not available.
Potential delayed effects	:	Not available.
<u>Long term exposure</u>		
Potential immediate	1	Not available.

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

effects

: May cause damage to organs through prolonged or repeated exposure. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Section 11. Toxicological information

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- : No known significant effects or critical hazards.
- Mutagenicity Teratogenicity Developmental effects Fertility effects
- : No known significant effects or critical hazards.
- . No known significant effects of childen hazards.
- : No known significant effects or critical hazards.
- : 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)	(mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Growmix Shrimp	N/A	7409.3	N/A	N/A	N/A
3,4-dihydro-2,5,7,8-tetramethyl-2- (4,8,12-trimethyltridecyl)-2H-benzopyran-6-yl acetate	N/A	2500	N/A	N/A	N/A
colecalciferol	35	61	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 - Daphnia magna (Water flea)	48 hours
	Acute LC50 >100 mg/l	Fish - Oncorhynchus mykiss (rainbow trout)	96 hours
colecalciferol	NOEC 100 mg/l	Àlgae - Pseudokirchneriella subcapitata (green algae)	96 hours
	NOEC 100 mg/l	Daphnia - Daphnia magna (Water flea)	48 hours
	NOEC >10000 mg/l	Fish - Leucíscus idus (Golden orfe)	96 hours

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
3,4-dihydro- 2,5,7,8-tetramethyl-2- (4,8,12-trimethyltridecyl)-2H- benzopyran-6-yl acetate	OECD 302C 302C Inherent Biodegradability: Modified MITI Test (II)	84 % - Inherent - 28 days	-	-
	OECD 301F 301F Ready Biodegradability - Manometric Respirometry Test	17 % - Not readily - 28 days	-	-
colecalciferol	OECD 301C 301C Ready Biodegradability - Modified MITI	7 % - Not readily - 28 days	-	-
Product name : Growmix	Shrimp		•	VN : ENGLISH
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Section 12. Ecolo	gical information		
	Test (I)		
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
3,4-dihydro- 2,5,7,8-tetramethyl-2- (4,8,12-trimethyltridecyl)-2H- benzopyran-6-yl acetate colecalciferol	-	-	Not readily Not readily
Bioaccumulative potential Not available.			
<u>Mobility in soil</u>			
Soil/water partition coefficient (Koc)	: Not available.		
Other adverse effects	: No known significant effects or critical hazards.		
Section 13. Dispo	sal consideration	S	
Disposal methods	Disposal of this product, with the requirements of any regional local authori products via a licensed w untreated to the sewer ur with jurisdiction. Waste p should only be considere container must be dispos emptied containers that h liners may retain some p	should be avoided or minimized solutions and any by-products a environmental protection and w ty requirements. Dispose of su aste disposal contractor. Was nless fully compliant with the re- backaging should be recycled. d when recycling is not feasible ed of in a safe way. Care shou have not been cleaned or rinsed roduct residues. Avoid dispers- bil, waterways, drains and seve	should at all times comply vaste disposal legislation and urplus and non-recyclable te should not be disposed of quirements of all authorities Incineration or landfill e. This material and its uld be taken when handling d out. Empty containers or al of spilled material and

Section 14. Transport information

	UN	IMDG	ΙΑΤΑ	
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

Toxic classification (TCVN 3164-79)	: 4	
Inventory list		

Viet Nam

Not determined.

Section 16. Other information

<u>History</u>	
Date of issue/Date of revision	: 9/26/2023
Date of previous issue	: 7/26/2023
Version	: 0.02
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals HMIS = Hazardous Material Information System (U.S.A.) IATA = International Air Transport Association IBC = Internediate 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 NFPA = National Fire Protection Association (U.S.A.) SGG = Segregation Group UN = United Nations

Procedure used to derive the classification

Classification	Justification
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	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