

## SAFETY DATA SHEETS

**This SDS packet was issued with item:**

078949474

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

078949397 078949465 078949472 078949473 078949476 078949478 078949479 078949481 078949482

**Nexgard Plus XS, Chewable tablet**

Version	Revision Date:	SDS Number:	Date of last issue: 12/16/2021
1.1	04/10/2023	000000058030	Date of first issue: 12/16/2021

**SECTION 1. IDENTIFICATION**

Product name : Nexgard Plus XS, Chewable tablet

Synonyms : NEXG PLUS XS  
with active ingredient: Afoxolaner, Moxidectin, Pyrantel Pamoate

**Manufacturer or supplier's details**

Company name of supplier : Boehringer Ing. Pharma GmbH & Co.KG

Address : Binger Straße 173  
Ingelheim 55216  
Germany

Telephone : +498007790900

Prepared by : EHS-Services@Boehringer-Ingelheim.com

Emergency telephone number : Int. Emergency Telephone number: +1 703-527-3887  
German Emergency Telephone number: +49800 1817059

**Recommended use of the chemical and restrictions on use**

Recommended use : Veterinary product

Restrictions on use : Safety Data Sheet only for the professional user., For veterinary use only, Refer to the product insert for complete instructions on usage

**SECTION 2. HAZARDS IDENTIFICATION****GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Skin sensitisation : Category 1

**GHS label elements**

Hazard pictograms :



Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.

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Precautionary statements : **Prevention:**  
P261 Avoid breathing dust.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P280 Wear protective gloves.

**Response:**  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
P363 Wash contaminated clothing before reuse.

**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

This drug is not subject to the labelling requirements under the Globally Harmonized System (GHS)  
The pharmacological effect of the medicament has to be considered (see package leaflet).

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

Chemical nature : Mixture

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
starch	9005-25-8	$\geq 20$ - $< 30$
glycerol	56-81-5	$\geq 10$ - $< 20$
Polyethylenglycol, molecular mass > 200 - 1540	25322-68-3	$\geq 5$ - $< 10$
Polyethylenglycol, molecular mass > 3000 - 20000	25322-68-3	$\geq 5$ - $< 10$
Octadecanoic acid, 12-hydroxy-, polymer with alpha-hydro-omega-hydroxypoly(oxy-1,2-ethanediyl)	70142-34-6	$\geq 1$ - $< 5$

Actual concentration is withheld as a trade secret

**SECTION 4. FIRST AID MEASURES**

General advice : In the case of accident or if you feel unwell, seek medical advice immediately.  
(show the package insert where possible).  
First Aid responders should pay attention to self-protection and use the recommended protective clothing  
Remove from exposure, lie down.  
Victim to lie down in the recovery position, cover and keep him warm.

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If inhaled	:	Move to fresh air.
In case of skin contact	:	Wash off immediately with plenty of water.
In case of eye contact	:	Rinse immediately with plenty of water for at least 15 minutes. Keep eye wide open while rinsing.
If swallowed	:	Rinse mouth. Drink plenty of water.
Most important symptoms and effects, both acute and delayed	:	May cause an allergic skin reaction.
Notes to physician	:	Observe the summary of product characteristics of proprietary medicinal products Treat symptomatically.

**SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water Dry chemical Foam Carbon dioxide (CO <sub>2</sub> )
Unsuitable extinguishing media	:	None known.
Specific hazards during fire-fighting	:	In case of fire and/or explosion do not breathe fumes.
Hazardous combustion products	:	Carbon oxides
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Complete suit protecting against chemicals

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures	:	Wear personal protective equipment. Ensure adequate ventilation.
Environmental precautions	:	Do not flush into surface water or sanitary sewer system.
Methods and materials for containment and cleaning up	:	Pick up and transfer to properly labelled containers.

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### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : No special protective measures against fire required.

Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.

Conditions for safe storage : Refer to the product insert for instructions on storage.

Materials to avoid : Keep away from food, drink and animal feedingstuffs. Observe joint storage prohibition.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	Basis	Category	Values	Remarks
Afoxolaner 1093861-60-9	BIEL	3A	80 µg/m <sup>3</sup>	
	BIPC	1b		
<b>Abbreviations:</b> BIEL = Boehringer Ingelheim Exposure Limit (internal value) BI-STEL = Boehringer Ingelheim Short-Term Exposure Limit (Excursion limit) BIPC = Boehringer Ingelheim Pregnancy Category BIPC 1b: No risk of harm to the unborn is to be expected, when the exposure does not exceed the BIEL value. There is evidence in animals and/or humans that this material has the potential to cause harm to the unborn at exposure levels exceeding the BIEL value.				
Components	Basis	Category	Values	Remarks
Pyrantel pamoate 22204-24-6	BIEL	2	170 µg/m <sup>3</sup>	
	BIPC	1b		
<b>Abbreviations:</b> BIEL = Boehringer Ingelheim Exposure Limit (internal value) BI-STEL = Boehringer Ingelheim Short-Term Exposure Limit (Excursion limit) BIPC = Boehringer Ingelheim Pregnancy Category BIPC 1b: No risk of harm to the unborn is to be expected, when the exposure does not exceed the BIEL value. There is evidence in animals and/or humans that this material has the potential to cause harm to the unborn at exposure levels exceeding the BIEL value.				
Components	Basis	Category	Values	Remarks
Moxidectin 113507-06-5	BIEL	3B	5 µg/m <sup>3</sup>	
	BIPC	1b		

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**Abbreviations:**

BIEL = Boehringer Ingelheim Exposure Limit (internal value)  
BI-STEL = Boehringer Ingelheim Short-Term Exposure Limit (Excursion limit)  
BIPC = Boehringer Ingelheim Pregnancy Category  
BIPC 1b: No risk of harm to the unborn is to be expected, when the exposure does not exceed the BIEL value. There is evidence in animals and/or humans that this material has the potential to cause harm to the unborn at exposure levels exceeding the BIEL value.

Components	Basis	Category	Values	Remarks
Polyethylene glycol 25322-68-3	BIEL	1	1,700 µg/m <sup>3</sup>	
	BIPC	1a		

**Abbreviations:**

BIEL = Boehringer Ingelheim Exposure Limit (internal value)  
BI-STEL = Boehringer Ingelheim Short-Term Exposure Limit (Excursion limit)  
BIPC = Boehringer Ingelheim Pregnancy Category  
BIPC 1a: No risk of harm to the unborn is to be expected, when the exposure does not exceed the BIEL value. Available data in animals and/or humans indicate that the compound does not pose a special risk to the unborn.

Components	Basis	Category	Values	Remarks
Polyethylene glycol 25322-68-3	BIEL	1	1,700 µg/m <sup>3</sup>	
	BIPC	1a		

**Abbreviations:**

BIEL = Boehringer Ingelheim Exposure Limit (internal value)  
BI-STEL = Boehringer Ingelheim Short-Term Exposure Limit (Excursion limit)  
BIPC = Boehringer Ingelheim Pregnancy Category  
BIPC 1a: No risk of harm to the unborn is to be expected, when the exposure does not exceed the BIEL value. Available data in animals and/or humans indicate that the compound does not pose a special risk to the unborn.

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Polyethylenglycol, molecular mass > 3000 - 20000	25322-68-3	TWA (aerosol)	10 mg/m <sup>3</sup>	US WEEL
starch	9005-25-8	TWA	10 mg/m <sup>3</sup>	ACGIH
		TWA (Respirable)	5 mg/m <sup>3</sup>	NIOSH REL
		TWA (total)	10 mg/m <sup>3</sup>	NIOSH REL
		TWA (total dust)	15 mg/m <sup>3</sup>	OSHA Z-1
		TWA (respirable fraction)	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Total dust)	15 mg/m <sup>3</sup>	OSHA P0
		TWA (respirable dust fraction)	5 mg/m <sup>3</sup>	OSHA P0
glycerol	56-81-5	TWA (mist, respirable fraction)	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (mist, total dust)	15 mg/m <sup>3</sup>	OSHA Z-1

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		TWA (Mist - total dust)	10 mg/m <sup>3</sup>	OSHA P0
		TWA (Mist - respirable fraction)	5 mg/m <sup>3</sup>	OSHA P0
Polyethylenglycol, molecular mass > 200 - 1540	25322-68-3	TWA (aero-sol)	10 mg/m <sup>3</sup>	US WEEL
Polyethylenglycol, molecular mass > 3000 - 20000	25322-68-3	TWA (aero-sol)	10 mg/m <sup>3</sup>	US WEEL

**Engineering measures** : Local exhaust

**Personal protective equipment**

**Respiratory protection** : No personal respiratory protective equipment normally required.  
General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

**Hand protection**  
**Material** : Nitrile rubber

**Remarks** : The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case.

**Eye protection** : Safety glasses with side-shields  
(Not necessary when using full face mask)

**Skin and body protection** : Laboratory: laboratory coat; Factory: disposable Overall.

**Protective measures** : Handle in accordance with good industrial hygiene and safety practice.  
Do not breathe dust.  
Avoid contact with skin, eyes and clothing.  
Only use protective equipment in accordance with national/international regulations. Follow the national regulations about wearing personal protective equipment and the warranty given by the manufacturer for the safe function.

**Hygiene measures** : General industrial hygiene practice.  
Wash hands and face before breaks and immediately after handling the product.  
Keep working clothes separately.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	:	solid
Colour	:	No data available
Odour	:	No data available
pH	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	Not applicable
Flash point	:	Not applicable
Flammability (solid, gas)	:	No data available
Self-ignition	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	Not applicable
Relative vapour density	:	Not applicable
Relative density	:	No data available
Density	:	No data available
Bulk density	:	No data available
Solubility(ies) Water solubility	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	Not applicable



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Explosive properties	:	Not tested
Oxidizing properties	:	No data available
Particle size	:	No data available

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	No data available
Incompatible materials	:	No data available
Hazardous decomposition products	:	No data available

**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity**

Not classified based on available information.

**Product:**

Acute oral toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method

**Components:****starch:**

Acute toxicity (other routes of administration)	:	LD50 (Mouse): 6,600 mg/kg Application Route: intraperitoneal
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**glycerol:**

Acute oral toxicity	:	LD50 (Rat): 27,200 mg/kg
Acute dermal toxicity	:	LD50 (Rabbit): > 10,000 mg/kg

**Polyethylenglycol, molecular mass > 200 - 1540:**

Acute oral toxicity	:	LD50 (Rat, female): > 2,000 mg/kg Method: OECD Test Guideline 423
Acute dermal toxicity	:	LD50 (Rat, male and female): > 2,000 mg/kg Method: OECD Test Guideline 402

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**Polyethyleneglycol, molecular mass > 3000 - 20000:**

Acute oral toxicity : LD50 (Rat): > 50,000 mg/kg  
LD50 (Mouse): > 50,000 mg/kg

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD50 (Rat): > 20,000 mg/kg

**Octadecanoic acid, 12-hydroxy-, polymer with alpha-hydro-omega-hydroxypoly(oxy-1,2-ethanediyl):**

Acute oral toxicity : LD50 (Rat): > 20,600 mg/kg

Acute dermal toxicity : Remarks: No data available

**Skin corrosion/irritation**

Not classified based on available information.

**Components:****starch:**

Species : Human  
Exposure time : 72 h  
Result : Mildly irritating.

**glycerol:**

Species : Rabbit  
Exposure time : 24 h  
Result : No skin irritation

**Polyethyleneglycol, molecular mass > 200 - 1540:**

Species : Rabbit  
Exposure time : 4 h  
Method : OECD Test Guideline 404  
Result : No skin irritation

**Polyethyleneglycol, molecular mass > 3000 - 20000:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

**Octadecanoic acid, 12-hydroxy-, polymer with alpha-hydro-omega-hydroxypoly(oxy-1,2-ethanediyl):**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

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**Serious eye damage/eye irritation**

Not classified based on available information.

**Components:****glycerol:**

Species	:	Rabbit
Result	:	No eye irritation

**Polyethyleneglycol, molecular mass > 200 - 1540:**

Species	:	Rabbit
Result	:	No eye irritation
Exposure time	:	24 h
Method	:	OECD Test Guideline 405

**Polyethyleneglycol, molecular mass > 3000 - 20000:**

Species	:	Rabbit
Result	:	No eye irritation
Method	:	OECD Test Guideline 405

**Octadecanoic acid, 12-hydroxy-, polymer with alpha-hydro-omega-hydroxypoly(oxy-1,2-ethanediyl):**

Species	:	Rabbit
Result	:	No eye irritation
Method	:	OECD Test Guideline 405

**Respiratory or skin sensitisation****Skin sensitisation**

May cause an allergic skin reaction.

**Respiratory sensitisation**

Not classified based on available information.

**Components:****Polyethyleneglycol, molecular mass > 200 - 1540:**

Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Not a skin sensitizer.

**Polyethyleneglycol, molecular mass > 3000 - 20000:**

Test Type	:	Buehler test
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	No alert for skin sensitization

**Octadecanoic acid, 12-hydroxy-, polymer with alpha-hydro-omega-hydroxypoly(oxy-1,2-ethanediyl):**

Test Type	:	Maximisation Test
Species	:	Guinea pig
Method	:	OECD Test Guideline 406

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Result : May cause sensitisation by skin contact.

**Germ cell mutagenicity**

Not classified based on available information.

**Components:****Polyethylenglycol, molecular mass > 200 - 1540:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Test Type: gene mutation test  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

**Polyethylenglycol, molecular mass > 3000 - 20000:**

Genotoxicity in vitro : Test Type: Ames test  
Method: OECD Test Guideline 471  
Result: negative

Test Type: Chromosomal aberration test  
Test system: Human lymphocytes  
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse  
Cell type: Bone marrow  
Result: negative

**Octadecanoic acid, 12-hydroxy-, polymer with alpha-hydro-omega-hydroxypoly(oxy-1,2-ethanediyl):**

Genotoxicity in vitro : Remarks: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

**Carcinogenicity**

Not classified based on available information.

**Components:****Polyethylenglycol, molecular mass > 3000 - 20000:**

Species : Rat  
Exposure time : 2 Years  
Remarks : Did not show carcinogenic effects in animal experiments.

**IARC** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is

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on OSHA's list of regulated carcinogens.

**NTP** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity**

Not classified based on available information.

**Components:****Polyethyleneglycol, molecular mass > 3000 - 20000:**

Effects on fertility : Test Type: Fertility  
Species: Rat  
Dose: 10000, 20000, 40000 milligram per kilogram  
Remarks: Animal testing did not show any effects on fertility.

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Oral  
Dose: 1000, 2000, 4000 milligram per kilogram  
General Toxicity Maternal: NOAEL: 4,000 mg/kg body weight  
Embryo-foetal toxicity: NOAEL: 4,000 mg/kg body weight

Test Type: Embryo-foetal development  
Species: Rabbit  
Application Route: Oral  
Dose: 500, 1000, 2000 milligram per kilogram  
Embryo-foetal toxicity: NOAEL: 20,000 mg/kg body weight

**Octadecanoic acid, 12-hydroxy-, polymer with alpha-hydro-omega-hydroxypoly(oxy-1,2-ethanediyl):**

Effects on fertility : Remarks: The results of animal studies gave no indication of a fertility impairing effect.

Effects on foetal development : Remarks: Did not show teratogenic effects in animal experiments

**STOT - single exposure**

Not classified based on available information.

**Components:****Polyethyleneglycol, molecular mass > 3000 - 20000:**

Remarks : No data available

**STOT - repeated exposure**

Not classified based on available information.

**Components:****Polyethyleneglycol, molecular mass > 3000 - 20000:**

Remarks : No data available

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**Repeated dose toxicity****Components:****Polyethylenglycol, molecular mass > 3000 - 20000:**

Species	:	Rat
NOAEL	:	0.109 mg/l
Application Route	:	inhalation (vapour)
Exposure time	:	14 days
Dose	:	0,109; 0,567; 1,008

Species	:	Rat
NOAEL	:	40 mg/kg
Application Route	:	Oral
Exposure time	:	13 weeks
Dose	:	40 - 19000

**Octadecanoic acid, 12-hydroxy-, polymer with alpha-hydro-omega-hydroxypoly(oxy-1,2-ethanediyl):**

Remarks : No adverse effect has been observed in chronic toxicity tests.

**Aspiration toxicity**

Not classified based on available information.

**Components:****Polyethylenglycol, molecular mass > 3000 - 20000:**

No data available

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****glycerol:**

Toxicity to fish	:	LC50 (Onchorhynchus mykiss): 54,000 mg/l Exposure time: 96 h Test Type: static test
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 24 h
Toxicity to algae/aquatic plants	:	ECx (Scenedesmus quadricauda): > 10,000 mg/l Exposure time: 8 d

**Polyethylenglycol, molecular mass > 200 - 1540:**

Toxicity to fish	:	LC50 (Poecilia reticulata (guppy)): > 100 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203
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Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

**Polyethyleneglycol, molecular mass > 3000 - 20000:**

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: No data available

Toxicity to microorganisms : EC10 (Pseudomonas putida): 10,000 mg/l  
Exposure time: 18 h

**Octadecanoic acid, 12-hydroxy-, polymer with alpha-hydro-omega-hydroxypoly(oxy-1,2-ethanediyl):**

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: Acute toxicity for fish

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 100 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC20 (aerobic microorganisms): > 1,000 mg/l  
Method: OECD Test Guideline 209

**Persistence and degradability****Components:**

**starch:**

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Biodegradability : Remarks: No data available

**glycerol:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 94 %  
Exposure time: 24 h

aerobic  
Result: Readily biodegradable.  
Biodegradation: 90 %  
Exposure time: 2 d

**Polyethylenglycol, molecular mass > 200 - 1540:**

Biodegradability : aerobic  
Result: Readily biodegradable.  
Biodegradation: 74.85 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D

**Polyethylenglycol, molecular mass > 3000 - 20000:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: > 70 %  
Exposure time: 21 d  
Method: OECD Test Guideline 301A

Chemical Oxygen Demand (COD) : 1,635 mg/g

**Octadecanoic acid, 12-hydroxy-, polymer with alpha-hydro-omega-hydroxypoly(oxy-1,2-ethanediyl):**

Biodegradability : aerobic  
Inoculum: activated sludge  
Biodegradation: 90 - 100 %  
Exposure time: 21 d  
Method: OECD Test Guideline 301A

**Bioaccumulative potential****Components:****starch:**

Partition coefficient: n-octanol/water : Remarks: No data available

**glycerol:**

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log P(o/w)<1).

Partition coefficient: n-octanol/water : log Pow: -1.75



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**Polyethylenglycol, molecular mass > 200 - 1540:**

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log P(o/w)<1).

Partition coefficient: n-octanol/water : log Pow: -0.698 (86 °F / 30 °C)

**Polyethylenglycol, molecular mass > 3000 - 20000:**

Bioaccumulation : Remarks: No data available

Partition coefficient: n-octanol/water : Remarks: No data available

**Octadecanoic acid, 12-hydroxy-, polymer with alpha-hydro-omega-hydroxypoly(oxy-1,2-ethanediyl):**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : Remarks: No data available

**Mobility in soil****Components:****Polyethylenglycol, molecular mass > 3000 - 20000:**

Distribution among environmental compartments : Remarks: No data available

**Other adverse effects****Product:**

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances  
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

**Components:****Polyethylenglycol, molecular mass > 3000 - 20000:**

Additional ecological information : No data available

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : Dispose of in accordance with local regulations.

Contaminated packaging : Packs that cannot be cleaned should be disposed of in the

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same manner as the contents.  
Uncontaminated packaging can be recycled.

**SECTION 14. TRANSPORT INFORMATION****International Regulations****IATA-DGR**

UN/ID No.	: UN 3077
Proper shipping name	: Environmentally hazardous substance, solid, n.o.s. (Moxidectin)
Class	: 9
Packing group	: III
Labels	: Miscellaneous Dangerous Goods
Packing instruction (cargo aircraft)	: 956
Packing instruction (passenger aircraft)	: 956
Environmentally hazardous	: yes

**IMDG-Code**

UN number	: UN 3077
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Moxidectin)
Class	: 9
Packing group	: III
Labels	: 9
EmS Code	: F-A, S-F
Marine pollutant	: yes

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**National Regulations****49 CFR**

UN/ID/NA number	: UN 3077
Proper shipping name	: Environmentally hazardous substance, solid, n.o.s. (Moxidectin)
Class	: 9
Packing group	: III
Labels	: CLASS 9
ERG Code	: 171
Marine pollutant	: yes

**Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

**SECTION 15. REGULATORY INFORMATION**

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### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Respiratory or skin sensitisation

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMII Intermediate or Final VOC's (40 CFR 60.489):

glycerol	56-81-5	>= 10 - < 20 %
Polyethylenglycol, molecular mass > 200 - 1540	25322-68-3	>= 5 - < 10 %
Polyethylenglycol, molecular mass > 3000 - 20000	25322-68-3	>= 5 - < 10 %

### Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

### US State Regulations

#### Massachusetts Right To Know

starch	9005-25-8
glycerol	56-81-5

#### Pennsylvania Right To Know

starch	9005-25-8
Soybean, flour, defatted	91081-83-3
Pyrantel pamoate	22204-24-6
glycerol	56-81-5
Polyethylenglycol, molecular mass > 200 - 1540	25322-68-3
Polyethylenglycol, molecular mass > 3000 - 20000	25322-68-3
Glycerides, mixed decanoyl and octanoyl	73398-61-5

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Octadecanoic acid, 12-hydroxy-, polymer with alpha-hydro-  
omega-hydroxypoly(oxy-1,2-ethanediyl) 70142-34-6

### Maine Chemicals of High Concern

Product does not contain any listed chemicals

### Vermont Chemicals of High Concern

Product does not contain any listed chemicals

### Washington Chemicals of High Concern

Product does not contain any listed chemicals

### California List of Hazardous Substances

Polyvinyl pyrrolidone 9003-39-8

### California Permissible Exposure Limits for Chemical Contaminants

starch 9005-25-8  
glycerol 56-81-5

### The components of this product are reported in the following inventories:

TCSI	:	Not in compliance with the inventory
TSCA	:	Product contains substance(s) not listed on TSCA inventory.
AIIC	:	Not in compliance with the inventory
DSL	:	This product contains the following components that are not on the Canadian DSL nor NDSL.
		Afoxolaner
		Moxidectin
		Pyrantel pamoate
		Soybean, flour, defatted
ENCS	:	Not in compliance with the inventory
ISHL	:	Not in compliance with the inventory
KECI	:	Not in compliance with the inventory
PICCS	:	Not in compliance with the inventory
IECSC	:	Not in compliance with the inventory
NZIoC	:	On the inventory, or in compliance with the inventory
TECI	:	Not in compliance with the inventory

### TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

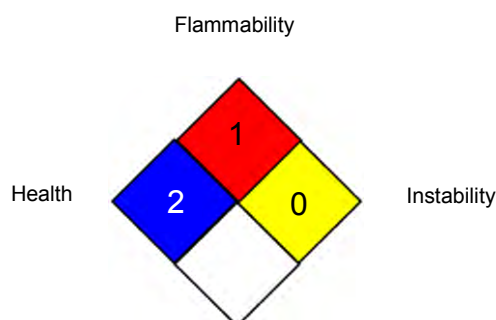
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### SECTION 16. OTHER INFORMATION

#### Further information

##### NFPA 704:



##### HMIS® IV:

HEALTH	/	2
FLAMMABILITY		1
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

#### Full text of other abbreviations

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	: USA. NIOSH Recommended Exposure Limits
OSHA P0	: USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
US WEEL	: USA. Workplace Environmental Exposure Levels (WEEL)
ACGIH / TWA	: 8-hour, time-weighted average
NIOSH REL / TWA	: Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
OSHA P0 / TWA	: 8-hour time weighted average
OSHA Z-1 / TWA	: 8-hour time weighted average
US WEEL / TWA	: 8-hr TWA

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Indus-

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trial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

Sources of key data used to compile the Safety Data Sheet : The specifications are based on own tests and/or literature data.

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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