

SAFETY DATA SHEETS

This SDS packet was issued with item:

078949481

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 078949474 078949476 078949478 078949479 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.

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

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	≥ 20 - < 30
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
Octadecanoic acid, 12-hydroxy-, polymer with alpha-hydro-omega-hydroxypoly(oxy-1,2-ethanediyl)	70142-34-6	≥ 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.

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

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 ₂)
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.

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 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 ³	
	BIPC	1b		
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
Pyrantel pamoate 22204-24-6	BIEL	2	170 µg/m ³	
	BIPC	1b		
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
Moxidectin 113507-06-5	BIEL	3B	5 µg/m ³	
	BIPC	1b		

Nexgard Plus XS, Chewable tablet

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

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 ³	
	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 ³	
	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 ³	US WEEL
starch	9005-25-8	TWA	10 mg/m ³	ACGIH
		TWA (Respirable)	5 mg/m ³	NIOSH REL
		TWA (total)	10 mg/m ³	NIOSH REL
		TWA (total dust)	15 mg/m ³	OSHA Z-1
		TWA (respirable fraction)	5 mg/m ³	OSHA Z-1
		TWA (Total dust)	15 mg/m ³	OSHA P0
		TWA (respirable dust fraction)	5 mg/m ³	OSHA P0
glycerol	56-81-5	TWA (mist, respirable fraction)	5 mg/m ³	OSHA Z-1
		TWA (mist, total dust)	15 mg/m ³	OSHA Z-1

Nexgard Plus XS, Chewable tablet

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

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

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 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

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

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
---	---	---

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

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

Polyethylenglycol, 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

Polyethylenglycol, molecular mass > 200 - 1540:

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

Polyethylenglycol, 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

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

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

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

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

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

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

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

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

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
------------------	--

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

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:

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

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

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

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

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

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

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

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

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

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

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.

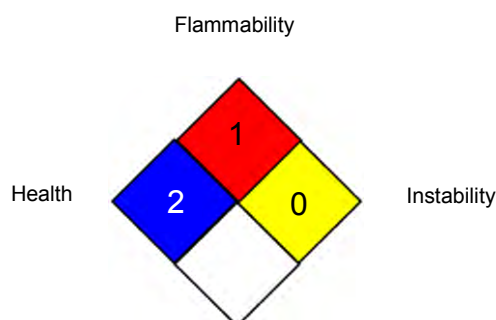
Nexgard Plus XS, Chewable tablet

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 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-

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

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.

Revision Date : 04/10/2023

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.

US / EN