

## SAFETY DATA SHEETS

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

078932782

N/A

**LONGRANGE® (eprinomectin), Injectable solution**

Version	Revision Date:	SDS Number:	Date of last issue: 10/28/2019
2.0	12/16/2021	000000049831	Date of first issue: 10/28/2019

**SECTION 1. IDENTIFICATION**

Product name : LONGRANGE® (eprinomectin), Injectable solution

Synonyms : LONGRANGE® solution for injection, Eprinex® injection with API: Eprinomectin

**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 : Pharmaceutical

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)**

Acute toxicity (Oral)	: Category 4
Skin irritation	: Category 2
Eye irritation	: Category 2A
Reproductive toxicity	: Category 1B
Effects on or via lactation	
Specific target organ toxicity - single exposure	: Category 3 (Respiratory system)
Specific target organ toxicity - repeated exposure (Oral)	: Category 1

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**GHS label elements**

Hazard pictograms

:



Signal word

:

Danger

Hazard statements

:

H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H360 May damage fertility or the unborn child.  
H362 May cause harm to breast-fed children.  
H372 Causes damage to organs through prolonged or repeated exposure if swallowed.

Precautionary statements

:

**Prevention:**

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P263 Avoid contact during pregnancy/ while nursing.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P362 Take off contaminated clothing and wash before reuse.

**Storage:**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.

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**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)
1-methyl-2-pyrrolidone	872-50-4	$\geq 20 - < 30$
Eprinomectin	123997-26-2	$\geq 1 - < 5$

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.  
Take off immediately all contaminated clothing.  
Victim to lie down in the recovery position, cover and keep him warm.

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 : Harmful if swallowed.  
Causes skin irritation.  
Causes serious eye irritation.  
May cause respiratory irritation.  
May damage fertility or the unborn child.  
May cause harm to breast-fed children.  
Causes damage to organs through prolonged or repeated

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exposure if swallowed.

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>)

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.  
High risk of slipping due to leakage/spillage of product.

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.  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).

**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.

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**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**
**Components with workplace control parameters**

Components	Basis	Category	Values	Remarks
Eprinomectin 123997-26-2	BIEL	3A	10 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	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
1-methyl-2-pyrrolidone	872-50-4	TWA	10 ppm	US WEEL

**Biological occupational exposure limits**

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
1-methyl-2-pyrrolidone	872-50-4	5-Hydroxy-N-methyl-2-pyrrolidone	Urine	End of shift (As soon as possible after exposure ceases)	100 mg/l	ACGIH BEI

**Engineering measures** : Local exhaust  
Emergency sprinkling nozzle

**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.

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**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.  
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.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Colour : amber

Odour : oily

Odour Threshold : No data available

pH : No data available

Melting point/range : Not applicable

Boiling point/boiling range : No data available

Flash point : 208 °F / 98 °C

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

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Self-ignition	:	does not ignite
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	0.3 hPa (68 °F / 20 °C)
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	1.120 g/cm <sup>3</sup>
Bulk density	:	Not applicable
Solubility(ies)		
Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	453 - 459 °F / 234 - 237 °C
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	65 - 100 mPa.s
Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	No data available
Particle size	:	Not applicable

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**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



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Hazardous decomposition products : No data available

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

Harmful if swallowed.

**Product:**

Acute oral toxicity : Acute toxicity estimate: 885.26 mg/kg  
Method: Calculation method

**Components:****1-methyl-2-pyrrolidone:**

Acute oral toxicity : LD50 (Rat): 4,150 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 5.1 mg/l  
Exposure time: 4 h  
Test atmosphere: gas  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 402

**Eprinomectin:**

Acute oral toxicity : LD50 (Mouse): 70 mg/kg  
LD50 (Rat): 55 mg/kg

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

**Skin corrosion/irritation**

Causes skin irritation.

**Components:****1-methyl-2-pyrrolidone:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : irritating

**Eprinomectin:**

Result : No skin irritation

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**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Components:****1-methyl-2-pyrrolidone:**

Species	:	Rabbit
Result	:	Eye irritation
Method	:	OECD Test Guideline 405

**Eprinomectin:**

Species	:	Rabbit
Result	:	No eye irritation

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

Not classified based on available information.

**Respiratory sensitisation**

Not classified based on available information.

**Components:****1-methyl-2-pyrrolidone:**

Test Type	:	Mouse Local Lymph Node Assay (LLNA)
Method	:	OECD Test Guideline 429
Result	:	No alert for skin sensitization
Remarks	:	Based on data from similar materials

**Eprinomectin:**

Test Type	:	Mouse Local Lymph Node Assay (LLNA)
Species	:	Guinea pig
Result	:	Does not cause skin sensitisation.

**Germ cell mutagenicity**

Not classified based on available information.

**Components:****1-methyl-2-pyrrolidone:**

Genotoxicity in vitro	:	Remarks: Not classified due to data which are conclusive although insufficient for classification.
Genotoxicity in vivo	:	Remarks: Not classified due to data which are conclusive although insufficient for classification.

**Eprinomectin:**

Genotoxicity in vitro	:	Test Type: Ames test Test system: S. typhimurium and E. coli Result: negative
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Test Type: In vitro mammalian cell gene mutation test  
Test system: V79 cells (Chinese hamster)  
Result: negative

Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster ovary cells  
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse  
Result: negative

**Carcinogenicity**

Not classified based on available information.

**Components:****1-methyl-2-pyrrolidone:**

Species : Mouse, male  
NOAEL : 89 mg/kg bw/day

**Eprinomectin:**

Remarks : The chemical structure does not suggest such an effect.

**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 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**

May damage fertility or the unborn child.  
May cause harm to breast-fed children.

**Components:****1-methyl-2-pyrrolidone:**

Effects on fertility : Species: Rabbit  
Early Embryonic Development: NOAEL: 1 mg/l

Effects on foetal development : Species: Rat  
Teratogenicity: NOAEL F1: 160 mg/kg body weight

Reproductive toxicity - Assessment : Clear evidence of adverse effects on development, based on animal experiments.

**Eprinomectin:**

Effects on fertility : Remarks: No data available

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Effects on foetal development

: Test Type: Two-generation study  
Species: Rat  
Application Route: Ingestion  
Dose: 0, 1, 2,5-3, 6 mg/kg /day  
General Toxicity Maternal: NOEL: 1 mg/kg body weight  
Developmental Toxicity: NOEL: 1 mg/kg body weight  
Remarks: Did not show teratogenic effects in animal experiments

Test Type: Embryo-foetal development  
Species: Rabbit  
Application Route: Oral  
Dose: 0,5 to 8 mg/kg/day  
General Toxicity Maternal: NOEL: 0.5 mg/kg body weight  
Embryo-foetal toxicity: NOAEL: 0.5 mg/kg body weight  
Remarks: Did not show teratogenic effects in animal experiments

Reproductive toxicity - Assessment

: Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments., Effects on or via lactation

**STOT - single exposure**

May cause respiratory irritation.

**Components:**
**1-methyl-2-pyrrolidone:**

Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

**Eprinomectin:**

Remarks : Not classified due to data which are conclusive although insufficient for classification.

**STOT - repeated exposure**

Causes damage to organs through prolonged or repeated exposure if swallowed.

**Components:**
**1-methyl-2-pyrrolidone:**

Remarks : Not classified due to data which are conclusive although insufficient for classification.

**Eprinomectin:**

Exposure routes : Ingestion  
Target Organs : Central nervous system  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.

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**Repeated dose toxicity****Components:****1-methyl-2-pyrrolidone:**

Species	: Rabbit
NOAEL	: 0.5 mg/l
Application Route	: inhalation (vapour)
Method	: OECD Test Guideline 413

Species	: Rabbit
NOAEL	: 826 mg/kg
Application Route	: Dermal
Method	: OECD Test Guideline 410

**Eprinomectin:**

Species	: Rabbit
NOEL	: 1.5 mg/kg
Application Route	: Oral
Exposure time	: 28 days
Dose	: 1,5 - 25 mg/kg/day

Species	: Rat
NOEL	: 5 mg/kg
Application Route	: Oral
Dose	: 1 - 30 mg/kg/day

Species	: Rat
NOEL	: 10 mg/kg
Application Route	: Oral
Exposure time	: 28 days
Dose	: 0,5 - 60 mg/kg/day

**Aspiration toxicity**

Not classified based on available information.

**Components:****Eprinomectin:**

No data available

**Further information****Components:****Eprinomectin:**

Remarks	: Neurotoxic effect.
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**SECTION 12. ECOLOGICAL INFORMATION**
**Ecotoxicity**
**Components:**
**1-methyl-2-pyrrolidone:**

- |  |   |  |
|--|---|--|
| Toxicity to fish   | : | LC50 (Oncorhynchus mykiss (rainbow trout)): > 500 mg/l<br>Exposure time: 96 h  |
| Toxicity to daphnia and other aquatic invertebrates                    | : | EC50 (Daphnia magna (Water flea)): > 1,000 mg/l<br>Exposure time: 24 h<br>Method: DIN 38412<br><br>EC50 ('Palaemonetes vulgaris'): 1,107 mg/l<br>Exposure time: 96 h |
| Toxicity to algae/aquatic plants                                       | : | EC50 (Desmodesmus subspicatus): > 500 mg/l<br>Exposure time: 72 h<br>Method: DIN 38412   |
| Toxicity to fish (Chronic toxicity)                                    | : | Remarks: No data available   |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC (Daphnia magna (Water flea)): 12.5 mg/l<br>Exposure time: 21 d<br>Method: Daphnia sp., Reproduction Test.   |
| Toxicity to microorganisms   | : | EC50 (activated sludge): > 600 mg/l<br>Exposure time: 0.5 h<br><br>EC10 (activated sludge): 100 mg/l<br>Exposure time: 48 h  |

**Eprinomectin:**

- |   |   |   |
|---|---|---|
| Toxicity to fish                                    | : | LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.37 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203<br><br>LC50 (Oncorhynchus mykiss (rainbow trout)): 1.2 mg/l<br>Exposure time: 96 h   |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 0.00045 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202<br>The value is given in analogy to the following substances:<br>Avermectin A1a, 4''-(acetylamino)-5-O-demethyl-4''-deoxy-, (4''R)-<br><br>EC50 (Daphnia (water flea)): 0.00037 mg/l<br>Exposure time: 48 h<br>Method: EPA-660/3-75-009 |

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Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (algae)): 3.4 mg/l Method: OECD Test Guideline 201
Toxicity to fish (Chronic toxicity)	:	Remarks: No data available
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.000028 mg/l End point: reproduction rate Method: OECD Test Guideline 211
Toxicity to microorganisms	:	Remarks: No data available
Toxicity to soil dwelling organisms	:	NOEC (Eisenia fetida (earthworms)): 19 mg/kg Method: OECD Test Guideline 222
Sediment toxicity	:	NOEC (Chironomus riparius (Midge larvae)): 0.00034 mg/l Method: OECD Test Guideline 218

**Persistence and degradability****Components:****1-methyl-2-pyrrolidone:**

Biodegradability	:	Result: Readily biodegradable. Biodegradation: 73 % Exposure time: 28 d Method: OECD Test Guideline 301C
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Biochemical Oxygen Demand (BOD)	:	< 2 mg/g Incubation time: 5 d
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Chemical Oxygen Demand (COD)	:	ca. 1,600 mg/l Method: DIN 38409-H-41
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ThOD	:	1,939 mg/g
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**Eprinomectin:**

Biodegradability	:	Inoculum: Soil Result: Persistent substance with a half life of more than 60 days. Method: OECD Test Guideline 307
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	:	Inoculum: Sediment Result: Persistent substance with a half life of more than 60 days. Method: OECD Test Guideline 308
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**Bioaccumulative potential****Components:****1-methyl-2-pyrrolidone:**

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

Partition coefficient: n-octanol/water : log Pow: -0.46 (77 °F / 25 °C)  
Method: OECD Test Guideline 107

**Eprinomectin:**

Bioaccumulation : Remarks: An appreciable bioaccumulation potential is to be expected (log P(o/w) > 3).

Species: Fish  
Method: OECD Test Guideline 305  
Remarks: Does not bioaccumulate.

Partition coefficient: n-octanol/water : Pow: 5.4

**Mobility in soil****Components:****1-methyl-2-pyrrolidone:**

Distribution among environmental compartments : Koc: 7.4, log Koc: 0.87

**Eprinomectin:**

Distribution among environmental compartments : Medium: Soil  
Koc: 1000  
Kd: 15.7  
Method: Adsorption/Desorption

Medium: Soil  
Koc: 9208  
Kd: 133.5  
Method: Adsorption/Desorption

**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:****1-methyl-2-pyrrolidone:**

Additional ecological information : No data available



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**Eprinomectin:**

Results of PBT and vPvB assessment : Persistent and Toxic

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

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

UN/ID No. : UN 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(Eprinomectin)  
Class : 9  
Packing group : III  
Labels : Miscellaneous  
Packing instruction (cargo aircraft) : 964  
Packing instruction (passenger aircraft) : 964  
Environmentally hazardous : yes

**IMDG-Code**

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(Eprinomectin)  
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 3082

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Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (Eprinomectin)
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****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.

<b>SARA 311/312 Hazards</b>	:	Acute toxicity (any route of exposure)
		Reproductive toxicity
		Specific target organ toxicity (single or repeated exposure)
		Skin corrosion or irritation
		Serious eye damage or eye irritation

<b>SARA 313</b>	:	The following components are subject to reporting levels established by SARA Title III, Section 313:
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1-methyl-2-pyrrolidone	872-50-4	>= 20 - < 30 %
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**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).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

**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.

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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**

1-methyl-2-pyrrolidone	872-50-4
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**Pennsylvania Right To Know**

Kollisolv® GTA	102-76-1
1-methyl-2-pyrrolidone	872-50-4
Eprinomectin	123997-26-2
1,4-Dioxane-2,5-dione, 3,6-dimethyl-, polymer with 1,4-dioxane-2,5-dione	26780-50-7

**Maine Chemicals of High Concern**

Product does not contain any listed chemicals

**Vermont Chemicals of High Concern**

1-methyl-2-pyrrolidone	872-50-4
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**Washington Chemicals of High Concern**

1-methyl-2-pyrrolidone	872-50-4
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**California Prop. 65**

WARNING: This product can expose you to chemicals including 1-methyl-2-pyrrolidone, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**California Permissible Exposure Limits for Chemical Contaminants**

1-methyl-2-pyrrolidone	872-50-4
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**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.  Eprinomectin  1,4-Dioxane-2,5-dione, 3,6-dimethyl-, polymer with 1,4-dioxane-2,5-dione
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

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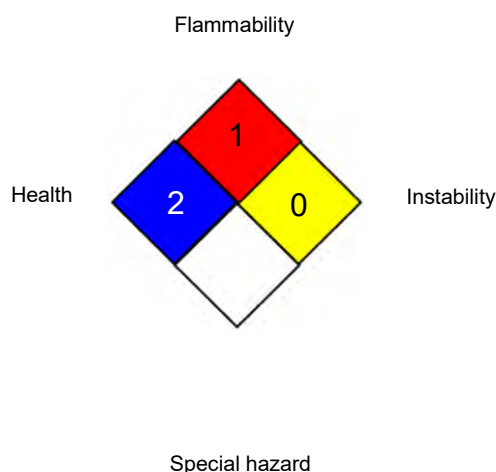
IECSC : Not in compliance with the inventory

NZIoC : Not in compliance with the inventory

**TSCA list**

No substances are subject to a Significant New Use Rule.

The following substance(s) is/are subject to TSCA 12(b) export notification requirements:  
1-methyl-2-pyrrolidone 872-50-4

**SECTION 16. OTHER INFORMATION****Further information****NFPA 704:****HMIS® IV:**

<b>HEALTH</b>	*	<b>4</b>
<b>FLAMMABILITY</b>		<b>1</b>
<b>PHYSICAL HAZARD</b>		<b>0</b>

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 BEI	:	ACGIH - Biological Exposure Indices (BEI)
US WEEL	:	USA. Workplace Environmental Exposure Levels (WEEL)
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 Dan-

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gerous 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 - Industrial 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; 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

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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Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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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