

Eprinex®, **Eprinex® Multi**, **Ivomec Eprinex®**
(Finished product)

Version	Revision Date:	SDS Number:	Date of last issue: 10/28/2019
2.0	06/10/2020	000000049068	Date of first issue: 10/28/2019

SECTION 1. IDENTIFICATION

Product name : Eprinex®, Eprinex® Multi, Ivomec Eprinex® (Finished product)

Synonyms : Pour-On for: for Beef and Dairy Cattle, sheep and goats
With API: Eprinomectin 5 mg/ml

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
Chemtrec 24-hours

Recommended use of the chemical and restrictions on use

Recommended use : Pharmaceutical

Restrictions on use : Safety Data Sheet only for the professional user.

SECTION 2. HAZARDS IDENTIFICATION**GHS classification in accordance with 29 CFR 1910.1200**

Reproductive toxicity : Category 2

Effects on or via lactation

GHS label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : H361 Suspected of damaging fertility or the unborn child.
H362 May cause harm to breast-fed children.

Precautionary statements : **Prevention:**
P201 Obtain special instructions before use.

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P202 Do not handle until all safety precautions have been read and understood.
 P263 Avoid contact during pregnancy/ while nursing.
 P264 Wash skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Storage:

P405 Store locked up.

Disposal:

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

Other hazards

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture
 Chemical nature : organic

Components

Chemical name	CAS-No.	Concentration (% w/w)
Eprinomectin	123997-26-2	$\geq 0.1 - < 1$

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 label 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.

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- If swallowed : Rinse mouth.
Drink plenty of water.
- Most important symptoms and effects, both acute and delayed : Suspected of damaging fertility or the unborn child.
May cause harm to breast-fed children.
- Notes to physician : Observe the summary of product characteristics of proprietary medicinal products
Symptomatic treatment (decontamination, vital functions).
-

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 (CO₂)
- Specific hazards during fire-fighting : In case of fire and/or explosion do not breathe fumes.
Can be released in case of fire:
Carbon oxides
Nitrogen oxides (NO_x)
Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered.
- 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.
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SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : No special protective measures against fire required.
The product is not flammable.

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

Conditions for safe storage : No special storage conditions required.

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	Remark
Eprinomectin 123997-26-2	BIEL	3A	10 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.

Engineering measures : Local exhaust
Emergency sprinkling nozzle

Personal protective equipment

Respiratory protection : Use NIOSH approved respiratory protection.

Hand protection

Material : Nitrile rubber
 Glove thickness : 0.43 mm
 Directive : Protective gloves against chemicals and micro-organisms
 Protective index : Class 6

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

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.

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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	: colourless, yellow
Odour	: No data available
Odour Threshold	: No data available
pH	: No data available
Melting point/range	: Not applicable
Boiling point/boiling range	: No data available
Flash point	: 428 °F / 220 °C
Evaporation rate	: Not applicable
Flammability (solid, gas)	: Not applicable
Self-ignition	: Not auto-flammable
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	: 0.91 - 0.92
Bulk density	: Not applicable
Solubility(ies)	

SAFETY DATA SHEET



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Water solubility : of low solubility

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

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity
Viscosity, dynamic : Not applicable

Explosive properties : Not tested

Oxidizing properties : 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: 2,047 mg/kg
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: 2,515 mg/kg
Method: Calculation method

Components:

Eprinomectin:

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

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Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

Skin corrosion/irritation

Not classified based on available information.

Components:**Eprinomectin:**

Result : No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

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

Genotoxicity in vitro : Test Type: Ames test
Test system: S. typhimurium and E. coli
Result: negative

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

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

Carcinogenicity

Not classified based on available information.

Components:**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

Suspected of damaging fertility or the unborn child.
May cause harm to breast-fed children.

Components:**Eprinomectin:**

Effects on fertility : Remarks: No data available

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

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STOT - single exposure

Not classified based on available information.

Components:**Eprinomectin:**

Remarks	:	Not classified due to data which are conclusive although insufficient for classification.
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STOT - repeated exposure

Not classified based on available information.

Components:**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.

Repeated dose toxicity**Components:****Eprinomectin:**

Species	:	Rabbit
NOEL	:	1.5 mg/kg
Application Route	:	Oral
Exposure time	:	28-day
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-day
Dose	:	0,5 - 60 mg/kg/day

Aspiration toxicity

Not classified based on available information.

Components:**Eprinomectin:**

No data available

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

Remarks	:	Neurotoxic effect.
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SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****Eprinomectin:**

<table border="0"> <tr> <td style="border-left: 1px solid black; padding-left: 5px;">Toxicity to fish</td> <td style="padding-left: 10px;">:</td> <td>LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.37 mg/l Method: OECD Test Guideline 203</td> </tr> <tr> <td></td> <td></td> <td>LC50 (Oncorhynchus mykiss (rainbow trout)): 1.2 mg/l Exposure time: 96 h</td> </tr> </table>	Toxicity to fish	:	LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.37 mg/l Method: OECD Test Guideline 203			LC50 (Oncorhynchus mykiss (rainbow trout)): 1.2 mg/l Exposure time: 96 h
Toxicity to fish	:	LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.37 mg/l Method: OECD Test Guideline 203				
		LC50 (Oncorhynchus mykiss (rainbow trout)): 1.2 mg/l Exposure time: 96 h				
<table border="0"> <tr> <td style="border-left: 1px solid black; padding-left: 5px;">Toxicity to daphnia and other aquatic invertebrates</td> <td style="padding-left: 10px;">:</td> <td>EC50 (Daphnia magna (Water flea)): 0.00045 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 The value is given in analogy to the following substances: Avermectin A1a, 4''-(acetylamino)-5-O-demethyl-4''-deoxy-, (4''R)-</td> </tr> </table>	Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.00045 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 The value is given in analogy to the following substances: Avermectin A1a, 4''-(acetylamino)-5-O-demethyl-4''-deoxy-, (4''R)-			
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<table border="0"> <tr> <td style="border-left: 1px solid black; padding-left: 5px;">Toxicity to algae/aquatic plants</td> <td style="padding-left: 10px;">:</td> <td>EC50 (Pseudokirchneriella subcapitata (algae)): 3.4 mg/l Method: OECD Test Guideline 201</td> </tr> </table>	Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (algae)): 3.4 mg/l Method: OECD Test Guideline 201			
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (algae)): 3.4 mg/l Method: OECD Test Guideline 201				
<table border="0"> <tr> <td style="border-left: 1px solid black; padding-left: 5px;">Toxicity to fish (Chronic toxicity)</td> <td style="padding-left: 10px;">:</td> <td>Remarks: No data available</td> </tr> </table>	Toxicity to fish (Chronic toxicity)	:	Remarks: No data available			
Toxicity to fish (Chronic toxicity)	:	Remarks: No data available				
<table border="0"> <tr> <td style="border-left: 1px solid black; padding-left: 5px;">Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)</td> <td style="padding-left: 10px;">:</td> <td>NOEC (Daphnia magna (Water flea)): 0.000028 mg/l End point: reproduction rate Method: OECD Test Guideline 211</td> </tr> </table>	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 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				
<table border="0"> <tr> <td style="border-left: 1px solid black; padding-left: 5px;">Toxicity to microorganisms</td> <td style="padding-left: 10px;">:</td> <td>Remarks: No data available</td> </tr> </table>	Toxicity to microorganisms	:	Remarks: No data available			
Toxicity to microorganisms	:	Remarks: No data available				
<table border="0"> <tr> <td style="border-left: 1px solid black; padding-left: 5px;">Toxicity to soil dwelling organisms</td> <td style="padding-left: 10px;">:</td> <td>NOEC (Eisenia fetida (earthworms)): 19 mg/kg Method: OECD Test Guideline 222</td> </tr> </table>	Toxicity to soil dwelling organisms	:	NOEC (Eisenia fetida (earthworms)): 19 mg/kg Method: OECD Test Guideline 222			
Toxicity to soil dwelling organisms	:	NOEC (Eisenia fetida (earthworms)): 19 mg/kg Method: OECD Test Guideline 222				
<table border="0"> <tr> <td style="border-left: 1px solid black; padding-left: 5px;">Sediment toxicity</td> <td style="padding-left: 10px;">:</td> <td>NOEC (Chironomus riparius (Midge larvae)): 0.00034 mg/l Method: OECD Test Guideline 218</td> </tr> </table>	Sediment toxicity	:	NOEC (Chironomus riparius (Midge larvae)): 0.00034 mg/l Method: OECD Test Guideline 218			
Sediment toxicity	:	NOEC (Chironomus riparius (Midge larvae)): 0.00034 mg/l Method: OECD Test Guideline 218				

Persistence and degradability**Product:**

Biodegradability	:	Result: No data available
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Components:**Eprinomectin:**

Biodegradability : Inoculum: Soil
Result: Persistent substance with a half life of more than 60 days.
Method: OECD Test Guideline 307

Inoculum: Sediment
Result: Persistent substance with a half life of more than 60 days.
Method: OECD Test Guideline 308

Bioaccumulative potential**Product:**

Bioaccumulation : Remarks: No data available

Components:**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**Product:**

Distribution among environmental compartments : Remarks: No data available

Components:**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

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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:**Eprinomectin:**

Results of PBT and vPvB assessment : Persistent and Toxic

: PBT substance

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.

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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
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
EPCRA - Emergency Planning and Community Right-to-Know Act
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 : Reproductive toxicity

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).

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This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMII 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.

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

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

Decanoic acid, mixed diesters with octanoic acid and propyl- 68583-51-7
ene glycol

Maine Chemicals of High Concern

This product does not contain any chemicals that are listed as Maine Chemicals of High Concern.

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

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

TCSI	:	Not in compliance with the inventory
TSCA	:	Substance(s) not listed on TSCA inventory
AICS	:	Not in compliance with the inventory
DSL	:	This product contains the following components that are not on the Canadian DSL nor NDSL. Eprinomectin Decanoic acid, mixed diesters with octanoic acid and propyl-ene glycol
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

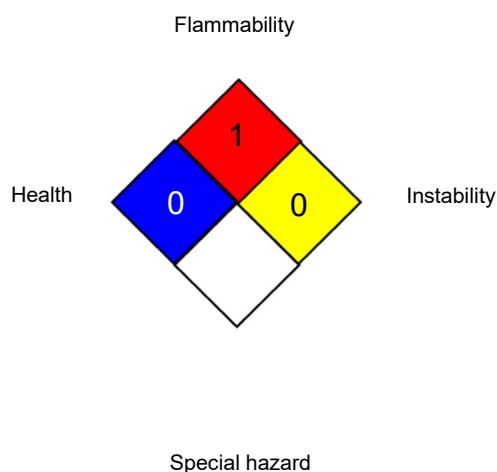
No substances are subject to a Significant New Use Rule.

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

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



HMIS® IV:

HEALTH	/	1
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

AICS - Australian Inventory of Chemical Substances; 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; 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

Vertical lines in the left hand margin indicate an amendment from the previous version.

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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