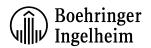
This SDS packet was issued with item: 078912270

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

078345066 078345074 078345082 078345090 078345108 078408411 078408478 078704949 078704956

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

| 1.1 | Product identifier | | |
|-----|-----------------------------------|------|---|
| | Trade name | : | Eprinex®, liquid (finished product) |
| | Synonyms | : | with API: Eprinomectin EPRINEX Pour-On for Cattle, Eprinex Pour-On vet. for Cattle |
| 1.2 | Relevant identified uses of the | ne s | substance or mixture and uses advised against |
| | Use of the Sub- stance/Mixture | : | Pharmaceutical |
| | Recommended restrictions | | Safety Data Sheet only for the professional user. |

1.3 Details of the supplier of the safety data sheet

| Company | : | Boehringer Ing. Pharma GmbH & Co.KG Binger Str. 173 55216 Ingelheim am Rhein |
|--|---|--|
| Telephone | : | +498007790900 |
| E-mail address of person responsible for the SDS | : | EHS-Services@Boehringer-Ingelheim.com |

1.4 Emergency telephone number

Int. Emergency Telephone number: +1 703-527-3887 Chemtrec 24-hours

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

The product is not subject to classification (medicinal product)

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

The product does not need to be labelled (medicinal product).

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

The pharmacological effect of the medicament has to be considered (see package leaflet).

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : organic

Hazardous components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concentration (% w/w) |
|---------------|---|--|--------------------------|
| Eprinomectin | 133305-88-1 | Acute Tox. 3; H301 Acute Tox. 3; H311 Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 | 0,5 |

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

| General advice | : | In the case of accident or if you feel unwell, seek medical ad- vice 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. | | |
| If swallowed | : | Rinse mouth. Drink plenty of water. | | |
| 4.2 Most important symptoms a | nd e | effects, both acute and delayed | | |
| Risks | : | No information available. | | |
| 4.3 Indication of any immediate medical attention and special treatment needed | | | | |
| Treatment | : | Observe the summary of product characteristics of proprietary medicinal products | | |
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| | | | | Symptomatic trea | atment (decontamination, vital functions). |
| SEC | TION | 5: Firefighting meas | sur | es | |
| 5.1 E | Extingu | lishing media | | | |
| Suitable extinguishing media | | : | Use extinguishing measures that are appropriate to local cir cumstances and the surrounding environment. Water Dry chemical Foam Carbon dioxide (CO2) | | |
| 5.2 S | special | hazards arising from | the | e substance or m | ixture |
| Specific hazards during fire- fighting : In case of fire and/or explosion do not brea Can be released in case of fire: Carbon oxides Nitrogen oxides (NOx) Product itself is non-combustible. | | | in case of fire: (NOx) | | |
| 5.3 A | dvice | for firefighters | | | |
| | | I protective equipment ighters | : | | e, wear self-contained breathing apparatus. Ditecting against chemicals |
| must not be discharged into Fire residues and contamina | | ated fire extinguishing water separately. This harged into drains. d contaminated fire extinguishing water must accordance with local regulations. | | | |
| SEC | TION | 6: Accidental releas | se r | neasures | |
| 6.1 P | Person | al precautions protec | ctive | e equipment and | emergency procedures |
| | | al precautions | : | : Wear personal protective equipment. Ensure adequate ventilation. High risk of slipping due to leakage/spillage of product. | |
| 6.2 E | Inviron | mental precautions | | | |
| Environmental precautions : Do not flush into surface water or sanitary sewer | | surface water or sanitary sewer system. | | | |

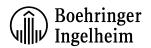
6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Pick up and transfer to properly labelled containers.

6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

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SECTION 7: Handling and storage

| 7.1 Precautions for safe handling | | | | |
|---|-----|---|--|--|
| Advice on safe handling | : | Provide sufficient air exchange and/or exhaust in work rooms. | | |
| Advice on protection against fire and explosion | : | No special protective measures against fire required. The product is not flammable. | | |
| Hygiene measures | : | General industrial hygiene practice. Wash hands and face before breaks and immediately after handling the product. Keep working clothes separately. | | |
| 7.2 Conditions for safe storage, | inc | luding any incompatibilities | | |
| Advice on common storage | : | Keep away from food, drink and animal feedingstuffs. Advice on Segregation | | |
| Storage class (TRGS 510) | : | 12, Non Combustible Liquids | | |
| 7.3 Specific end use(s) | | | | |
| Specific use(s) | : | Consult the technical guidelines for the use of this sub- stance/mixture. | | |

SECTION 8: Exposure controls/personal protection

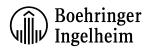
8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

| Engineering measures Local exhaust Emergency sprinkling nozzle | |
|---|--|
| Personal protective equipme | ent |
| Eye protection | : Safety glasses with side-shields |
| Hand protection Material Break through time Glove thickness Directive Protective index | Nitrile rubber 480 min 0,43 mm Protective gloves against chemicals and micro-organisms Class 6 |
| Skin and body protection | : Laboratory: laboratory coat; factory: disposable Overall. |
| Respiratory protection | No personal respiratory protective equipment normally re- quired. Breathing apparatus needed only when aerosol or mist is formed. |
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| Dutin | | Respiratory pro ABEK2 | |
| Protective measures | | practice. Avoid contact w Only use protec al/international about wearing p | rdance with good industrial hygiene and safety with skin, eyes and clothing. ctive equipment in accordance with nation- regulations. Follow the national regulations personal protective equipment and the warran- manufacturer for the safe function. |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| Appearance | : | liquid |
|--|---|--------------------|
| Colour | : | colourless, yellow |
| Odour | : | odourless |
| Odour Threshold | : | No data available |
| рН | : | No data available |
| Melting point/range | : | Not applicable |
| Boiling point/boiling range | : | No data available |
| Flash point | : | 220 °C |
| Evaporation rate | : | No data available |
| Flammability (solid, gas) | : | Not applicable |
| Upper explosion limit | : | No data available |
| Lower explosion limit | : | No data available |
| Vapour pressure | : | No data available |
| Relative vapour density | : | No data available |
| Relative density | : | 0,91 - 0,92 |
| Bulk density | : | Not applicable |
| Solubility(ies) Water solubility | : | of low solubility |
| Partition coefficient: n- octanol/water | : | No data available |

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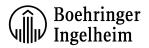
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|----------------|---|-----------------------------|--|
| Ignitic | on temperature | : No data avail | able |
| Deco | mposition temperature | : No data avail | able |
| Visco Vi | osity scosity, dynamic | : No data avail | able |
| Explo | osive properties | : Not tested | |
| Oxidi | zing properties | : No data avail | able |
| | information gnition | : not auto-flamr | nable |
| SECTION | N 10: Stability and re | activity | |
| 10.2 Cher | tivity angerous reaction know nical stability ecomposition if stored a | | |
| | sibility of hazardous re | | |
| Haza | rdous reactions | : No dangerou | s reaction known under conditions of normal use. |
| | ditions to avoid litions to avoid | : Extremes of t | emperature and direct sunlight. |
| | mpatible materials rials to avoid | : No data avail | able |
| | ardous decomposition | products | |
| SECTION | N 11: Toxicological in | nformation | |
| 11.1 Infor | mation on toxicologic | al effects | |
| | e toxicity | | |
| <u>Com</u> | ponents: | | |
| - | nomectin: | | |
| Acute | e oral toxicity | : LD50 (Mouse) | 1: 70 mg/kg |
| | | LD50 (Rat): 5 | 5 mg/kg |

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|----------------|---|--------|--|--|
| Acu | te inhalation toxicity | : | LC50 (Rat): 5,11 Exposure time: 4 Test atmosphere: | h |
| Acu | Acute dermal toxicity | | LD50 (Rat): > 660 |) mg/kg |
| | | | LD50 (Rabbit): 40 | 06 mg/kg |
| Ski | n corrosion/irritation | | | |
| <u>Cor</u> | nponents: | | | |
| Spe | inomectin: ecies: Rabbit sult: No skin irritation | | | |
| Ser | ious eye damage/eye irı | ritati | on | |
| <u>Cor</u> | nponents: | | | |
| Spe | inomectin: ecies: Rabbit sult: Irritating to eyes. | | | |
| Res | piratory or skin sensiti | satio | on | |
| <u>Cor</u> | nponents: | | | |
| Spe | inomectin: ecies: Guinea pig sult: Does not cause skin s | sens | itisation. | |
| Ger | m cell mutagenicity | | | |
| <u>Cor</u> | nponents: | | | |
| - | inomectin: notoxicity in vitro | : | Remarks: In vitro | tests did not show mutagenic effects |
| Ger | notoxicity in vivo | : | Remarks: No data | a available |
| Car | cinogenicity | | | |
| <u>Cor</u> | mponents: | | | |
| - | inomectin: narks: No data available | | | |

icity)

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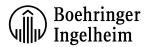


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|----------------|---|----|--------------------------------------|--|
| Repr | oductive toxicity | | | |
| Com | ponents: | | | |
| Eprir | nomectin: | | | |
| Effec | ts on fertility | : | Remarks: No data | a available |
| Effec ment | ts on foetal develop- | : | Remarks: No data | a available |
| STO | Γ - single exposure | | | |
| Com | ponents: | | | |
| • | nomectin: arks: No data available | | | |
| STO | Г - repeated exposure | | | |
| Com | ponents: | | | |
| - | tomectin: arks: No data available | | | |
| Furth | ner information | | | |
| <u>Com</u> | ponents: | | | |
| • | iomectin: arks: No data available | | | |
| ECTION | N 12: Ecological infor | ma | tion | |
| 2.1 Toxi | city | | | |
| Com | ponents: | | | |
| - | nomectin: hity to fish | : | LC50 (Oncorhync Exposure time: 96 | chus mykiss (rainbow trout)): 0,0012 mg/l ວິ h |
| | ity to daphnia and other tic invertebrates | : | LC50 (Daphnia m Exposure time: 48 | agna (Water flea)): 0,00045 mg/l 3 h |
| Toxic | ity to algae | : | Remarks: No data | a available |
| Toxic | ity to microorganisms | : | Remarks: No data | a available |
| Toxic | ity to fish (Chronic tox- | : | Remarks: No data | a available |

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|----------------|--|------------------------------|---|--|--|
| | city to daphnia and other tic invertebrates (Chron- | | Remarks: No da | ta available | |
| ic tox | kicity) | | | | |
| 12.2 Pers | istence and degradabi | lity | | | |
| <u>Com</u> | ponents: | | | | |
| - | Eprinomectin: Biodegradability | | Remarks: No da | ta available | |
| | ccumulative potential ata available | | | | |
| 12.4 Mob | ility in soil | | | | |
| <u>Com</u> | ponents: | | | | |
| Distri | nomectin: ibution among environ- al compartments | : Remarks: No data available | | | |
| 12.5 Resi | ults of PBT and vPvB a | sse | ssment | | |
| Prod | luct: | | | | |
| Asse | ssment | : | : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher | | |
| 12.6 Othe | er adverse effects | | | | |
| <u>Com</u> | ponents: | | | | |
| - | nomectin: tional ecological infor- on | : | No data availabl | e | |
| SECTIO | N 13: Disposal consi | der | ations | | |
| 13 1 Was | te treatment methods | | | | |
| Prod | | : | Dispose of in ac | cordance with local regulations. | |
| Cont | aminated packaging | : | : Packs that cannot be cleaned should be disposed of in the same manner as the contents | | |

same manner as the contents.

Uncontaminated packaging can be recycled.

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SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

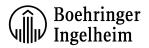
SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

| REACH - Candidate List of Substa Concern for Authorisation (Article | : | Not applicable | | | | |
|---|--------------|------------------------------------|--|--|--|--|
| Regulation (EC) No 1005/2009 on plete the ozone layer | : | Not applicable | | | | |
| Regulation (EC) No 850/2004 on lutants | : | Not applicable | | | | |
| Regulation (EC) No 649/2012 of the ment and the Council concerning of dangerous chemicals | Eprinomectin | | | | | |
| Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Not applicable | | | | | | |
| Water contaminating class : (Germany) | | endangering AwSV, Annex 1 (5.2) | | | | |
| TA Luft List (Germany) : | n p | owdered form: | | | | |
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| | | Inorganic substances in vapour or gaseous form: Not applicable Organic Substances: Not applicable Carcinogenic substances: Not applicable Mutagenic: Not applicable Toxic to reproduction: Not applicable | | | | |
| The c REAC | | oroduc : | - | in the following inventories: nce with the inventory | | |
| DSL | | : | : This product contains the following components that are on the Canadian DSL nor NDSL. | | | |
| | | | Eprinomectin | | | |
| AICS | | : | Not in complia | nce with the inventory | | |
| NZIoC | 2 | : | Not in complia | nce with the inventory | | |
| ENCS | 3 | : | Not in complia | nce with the inventory | | |
| ISHL | | : | Not in complia | nce with the inventory | | |
| KECI | | : | Not in compliance with the inventory | | | |
| PICC | S | : | Not in compliance with the inventory | | | |
| IECS | C | : | Not in compliance with the inventory | | | |
| TCSI | | : | Not in compliance with the inventory | | | |
| TSCA | , | : | Not On TSCA | Inventory | | |

15.2 Chemical safety assessment

SECTION 16: Other information

| Full text of H-Statem | ents | |
|------------------------|------------|---|
| H301 | : | Toxic if swallowed. |
| H311 | : | Toxic in contact with skin. |
| H319 | : | Causes serious eye irritation. |
| H400 | : | Very toxic to aquatic life. |
| H410 | : | Very toxic to aquatic life with long lasting effects. |
| Full text of other abb | reviations | |
| Acute Tox. | : | Acute toxicity |
| Aquatic Acute | : | Acute aquatic toxicity |
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| Aquatic Chronic | : | Chronic aquatic toxicity |
|-----------------|---|--------------------------|
| Eye Irrit. | : | Eye irritation |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -Concentration associated with x% response; 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; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; 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 - 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; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

| Training advice | : | Provide adequate information, instruction and training for operators. |
|---|---|---|
| Other information | : | 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. |

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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