

## Ivomec® Pour On

Version	Revision Date:	SDS Number:	Date of last issue: 28.10.2019
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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : Ivomec® Pour On

Synonyms : Ivomec® Pour-On, Ivomec® Pour-On for cattle, Ivomec® Pour-On Lösung zum Auftragen auf die Haut für Tiere, Ivomec® Pour-On 5 MG/ML VET. LIUOS, Ivomec® Pour-On bovin, solution cutanée pour depot, Ivomec® Pour-On cattle, Ivomec® Pour-On for cattle, Ivomec® Pour-On for cattle and deer, Ivomec® Pour-On sol. ad us. Vet, Ivomec® Pour-On voor rundvee, molemec pour-on solution, Molemec Pour on with API: Ivermectin

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Pharmaceutical

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

#### 1.3 Details of the supplier of the safety data sheet

Company : Boehringer Ingelheim Vetmedica  
800 5th St NW  
50501 Fort Dodge  
USA

Telephone : +15159554661

E-mail address of person responsible for the SDS : EHS-Services@Boehringer-Ingelheim.com

#### 1.4 Emergency telephone number

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Flammable liquids , Category 2	H225: Highly flammable liquid and vapour.
Eye irritation , Category 2	H319: Causes serious eye irritation.
Effects on or via lactation	H362: May cause harm to breast-fed children.
Specific target organ toxicity - single exposure , Category 3 , Central nervous system	H336: May cause drowsiness or dizziness.

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Short-term (acute) aquatic hazard , Category 1      H400: Very toxic to aquatic life.

Long-term (chronic) aquatic hazard , Category 1      H410: Very toxic to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H362 May cause harm to breast-fed children.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P201 Obtain special instructions before use.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P263 Avoid contact during pregnancy and while nursing.  
P273 Avoid release to the environment.  
**Response:**  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.  
P391 Collect spillage.

#### Hazardous components which must be listed on the label:

propan-2-ol  
Ivermectin

#### Additional Labelling

EUH208 Contains Ivermectin. May produce an allergic reaction.

### 2.3 Other hazards

This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

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).

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
propan-2-ol	67-63-0 200-661-7 603-117-00-0 01-2119457558-25-XXXX	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 50 - < 70
Ivermectin	70288-86-7 274-536-0	Acute Tox. 2; H300 Acute Tox. 3; H311 Skin Sens. 1; H317 Repr. 2; H361 Lact.H362 STOT RE 1; H372 Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100	>= 0,3 - < 1

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 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.
- If swallowed : Rinse mouth.

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Drink plenty of water.

### 4.2 Most important symptoms and effects, both acute and delayed

Risks	:	Causes serious eye irritation. May cause drowsiness or dizziness. May cause harm to breast-fed children.
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### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment	:	Observe the summary of product characteristics of proprietary medicinal products Symptomatic treatment (decontamination, vital functions).
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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water mist Dry chemical Foam Carbon dioxide (CO <sub>2</sub> )
Unsuitable extinguishing media	:	High volume water jet

### 5.2 Special hazards arising from the substance or mixture

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
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### 5.3 Advice for firefighters

Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. complete suit protecting against chemicals
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.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Wear personal protective equipment. Ensure adequate ventilation. High risk of slipping due to leakage/spillage of product.
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### 6.2 Environmental precautions

Environmental precautions	:	Do not flush into surface water or sanitary sewer system.
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### 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      :    Keep away from heat and sources of ignition.

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, including any incompatibilities

Requirements for storage areas and containers      :    Protect from heat and direct sunlight.

Advice on common storage      :    Keep away from food, drink and animal feedingstuffs. Observe joint storage prohibition.

Storage class (TRGS 510)      :    3, Flammable Liquids

### 7.3 Specific end use(s)

Specific use(s)                :    Consult the technical guidelines for the use of this substance/mixture.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
propan-2-ol	67-63-0	AGW	200 ppm 500 mg/m <sup>3</sup>	DE TRGS 900
	Peak-limit: excursion factor (category): 2;(II)			
	Further information: Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission)., When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			

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Components	Basis	Category	Values	Remark
Ivermectin 70288-86-7	BIEL	3A	10 µg/m <sup>3</sup>	
	BIPC	3		
<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 3: There is evidence in animals and/or humans or the mechanism of actions indicates that the compound has the potential to cause harm to the unborn. Harm to the unborn can occur even if exposure does not exceed the BIEL value.				

### Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
propan-2-ol	67-63-0	Acetone: 25 mg/l (Blood)	Immediately after exposure or after working hours	TRGS 903
		Acetone: 25 mg/l (Urine)	Immediately after exposure or after working hours	TRGS 903

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
propan-2-ol	Workers	Dermal	Long-term systemic effects	888 mg/kg
	Workers	Inhalation	Long-term systemic effects	500 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term systemic effects	89 mg/m <sup>3</sup>
	Consumers	Dermal	Long-term systemic effects	319 mg/kg
	Consumers	Ingestion	Long-term systemic effects	26 mg/kg

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
propan-2-ol	Fresh water	140,9 mg/l
	Marine water	140,9 mg/l
	Sewage treatment plant	2251 mg/l
	Fresh water sediment	552 mg/l
	Marine sediment	552 mg/l
	Water	160 mg/l
	Soil	28 mg/l
Ivermectin	Water	140,9 mg/l
	Sediment	< 0,000012

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		mg/kg
	surface water	< 0,000057 mg/l
	Soil	0,03 mg/kg

### 8.2 Exposure controls

#### Engineering measures

Local exhaust  
Emergency sprinkling nozzle

#### Personal protective equipment

Eye protection : Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.

Safety glasses with side-shields

#### 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.

Skin and body protection : Protective work clothing

Respiratory protection : No personal respiratory protective equipment normally required.  
Breathing apparatus needed only when aerosol or mist is formed.  
Respiratory protection  
ABEK2

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.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : liquid  
Colour : blue  
Odour : alcohol-like  
Odour Threshold : No data available

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pH	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	82 °C(related to the solvent(s))
Flash point	:	14 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	12 %(V) (related to the solvent(s))
Lower explosion limit / Lower flammability limit	:	2 %(V) (related to the solvent(s))
Vapour pressure	:	43 hPa (20 °C)
Relative vapour density	:	No data available
Relative density	:	No data available
Bulk density	:	Not applicable
Solubility(ies) Water solubility	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No decomposition if used as directed.
Explosive properties	:	Not tested
Oxidizing properties	:	No data available

### 9.2 Other information

Self-ignition	:	No data available
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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.



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### 10.3 Possibility of hazardous reactions

Hazardous reactions : No data available

### 10.4 Conditions to avoid

Conditions to avoid : No data available

### 10.5 Incompatible materials

Materials to avoid : No data available

### 10.6 Hazardous decomposition products

No data available

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

##### Components:

##### **propan-2-ol:**

Acute oral toxicity : LD50 (Rat): 5.840 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 10.000 mg/l  
Exposure time: 6 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

##### **Ivermectin:**

Acute oral toxicity : LD50 (Rat, male): = 42,8 mg/kg  
LD50 (Rat, female): = 44,3 mg/kg  
LD50 (Mouse, male): = 11,6 mg/kg

Acute inhalation toxicity : LC50 (Rat): 5,11 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit, male and female): = 406 mg/kg

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### **Skin corrosion/irritation**

#### **Components:**

##### **propan-2-ol:**

Result : No skin irritation

##### **Ivermectin:**

Species : Rabbit  
Result : No skin irritation

### **Serious eye damage/eye irritation**

Causes serious eye irritation.

#### **Components:**

##### **propan-2-ol:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : irritating

##### **Ivermectin:**

Species : Rabbit  
Result : Slightly irritating.

### **Respiratory or skin sensitisation**

#### **Components:**

##### **propan-2-ol:**

Assessment : Does not cause skin sensitisation.

##### **Ivermectin:**

Test Type : Buehler test  
Species : Guinea pig  
Result : May cause sensitisation by skin contact.

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

### **Germ cell mutagenicity**

#### **Components:**

##### **propan-2-ol:**

Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects

Genotoxicity in vivo : Remarks: No mutagenic effects reported.

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### Ivermectin:

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Concentration: 2000 µg/plate  
Result: negative

Test Type: Mouse lymphoma assay  
Concentration: 1000 µg/ml  
Result: negative

Test Type: Unscheduled DNA synthesis  
Test system: fibroblast cell line  
Concentration: 1000 µg/ml  
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Rat  
Application Route: Oral  
Dose: 20 mg/kg/day  
Result: negative

### Carcinogenicity

#### Components:

##### propan-2-ol:

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

##### Ivermectin:

Species : Mouse  
Exposure time : 2 Years  
Dose : 10 mg/kg/day  
Remarks : Did not show carcinogenic effects in animal experiments.

Species : Rat, male  
Application Route : Oral  
Exposure time : 2 Years  
Dose : 9 mg/kg/day  
Remarks : Not classified due to data which are conclusive although insufficient for classification.

Species : Rat, female  
Application Route : Oral  
Exposure time : 2 Years  
Dose : 9 mg/kg/day  
Remarks : Did not show carcinogenic effects in animal experiments.

### Reproductive toxicity

May cause harm to breast-fed children.

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### Components:

#### **propan-2-ol:**

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

Effects on foetal development : Remarks: Not classified due to data which are conclusive although insufficient for classification.

#### **Ivermectin:**

Effects on fertility : Test Type: Fertility/early embryonic development  
Species: Rat  
Application Route: Oral  
Dose: 0.1, 1, 9 mg/kg/day  
General Toxicity - Parent: NOEL: 1 mg/kg body weight  
Fertility: NOEL: 1 mg/kg body weight

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Mouse  
Application Route: Oral  
Dose: 0.1; 0.2; 0.4; 0.8 mg/kg/day  
General Toxicity Maternal: NOEL: 0,1 mg/kg body weight  
Embryo-foetal toxicity: NOEL: 0,2 mg/kg body weight  
Result: Teratogenic effects

Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Oral  
Dose: 1.5; 4; 12 mg/kg/day  
General Toxicity Maternal: NOAEL: 4 mg/kg body weight  
Embryo-foetal toxicity: NOAEL: 4 mg/kg body weight  
Result: Teratogenic effects

Test Type: Embryo-foetal development  
Species: Rabbit  
Application Route: Oral  
Dose: 1.5; 3; 6 mg/kg/day  
General Toxicity Maternal: NOEL: 3 mg/kg body weight  
Embryo-foetal toxicity: NOEL: 1,5 mg/kg body weight  
Result: Teratogenic effects

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 drowsiness or dizziness.

### Components:

#### **propan-2-ol:**

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

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### Ivermectin:

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

### STOT - repeated exposure

#### Components:

##### propan-2-ol:

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

### Ivermectin:

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:

##### Ivermectin:

Species : Mouse  
NOAEL : 10 mg/kg  
Application Route : Dermal  
Exposure time : 13 weeks  
Dose : 1, 3, 10 mg/kg/day  
Remarks : No significant adverse effects were reported

Species : Rat  
NOAEL : 3 mg/kg  
Application Route : Oral  
Exposure time : 13 weeks  
Dose : 0.1, 0.3, 1.0, 3.0 mg/kg/day

Species : Dog  
NOAEL : 0,5 mg/kg  
Application Route : Oral  
Exposure time : 13 weeks  
Dose : 0.1, 0.25, 0.5, 1.5 mg/kg/day

### Aspiration toxicity

#### Components:

##### propan-2-ol:

No data available

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**Ivermectin:**

No data available

**Further information**

**Components:**

**Ivermectin:**

Remarks : No data available

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### SECTION 12: Ecological information

#### 12.1 Toxicity

**Components:**

**propan-2-ol:**

Toxicity to fish : LC50 (*Pimephales promelas* (fathead minnow)): 9.640 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): > 10.000 mg/l  
Exposure time: 24 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : Remarks: Not classified due to data which are conclusive although insufficient for classification.

Toxicity to microorganisms : (*Pseudomonas putida*): 1.050 mg/l  
Exposure time: 16 h

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

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

**Ivermectin:**

Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): 0,003 mg/l  
Exposure time: 96 h  
  
LC50 (*Lepomis macrochirus* (Bluegill sunfish)): 0,0053 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC50 (*Daphnia magna* (Water flea)): 0,000013 mg/l  
End point: Immobilization  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (*Pseudokirchneriella subcapitata* (green algae)): > 4 mg/l

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	End point: Growth rate Exposure time: 72 h Method: OECD Test Guideline 201
	Lowest Observed Effect Concentration (Pseudokirchneriella subcapitata (green algae)): 1,25 mg/l End point: Growth rate Exposure time: 72 h Method: OECD Test Guideline 201
	NOEC (Pseudokirchneriella subcapitata (green algae)): 0,391 mg/l End point: Growth rate Exposure time: 72 h
M-Factor (Acute aquatic toxicity)	: 100
Toxicity to microorganisms	: Remarks: No data available
Toxicity to fish (Chronic toxicity)	: Remarks: No data available
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: EC50: 0,0017 mg/l Exposure time: 10 d Species: Hyalella azteca (Amphipod)
	NOEC: 0,00021 mg/l Exposure time: 10 d Species: Hyalella azteca (Amphipod)
M-Factor (Chronic aquatic toxicity)	: 100
Toxicity to soil dwelling organisms	: Test Type: artificial soil EC50: 5,3 mg/kg Exposure time: 56 d Species: Eisenia fetida (earthworms) Method: OECD Test Guideline 222
	Test Type: artificial soil NOEC: 2,5 mg/kg Exposure time: 56 d Species: Eisenia fetida (earthworms) Method: OECD Test Guideline 222

### 12.2 Persistence and degradability

#### Components:

#### **propan-2-ol:**

Biodegradability : Result: Readily biodegradable.

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Biodegradability : Result: Persistent substance with a half life of more than 60 days.

### 12.3 Bioaccumulative potential

**Components:**

**propan-2-ol:**

Partition coefficient: n-octanol/water : log Pow: 0,05 (25 °C)

**Ivermectin:**

Bioaccumulation : Species: Danio rerio (zebra fish)  
Bioconcentration factor (BCF): 63 - 111  
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 3,22 (20 °C)

### 12.4 Mobility in soil

**Components:**

**Ivermectin:**

Distribution among environmental compartments : log Koc: 3,6 - 4,4

### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB)..

**Components:**

**Ivermectin:**

Assessment : PBT substance.

### 12.6 Other adverse effects

**Components:**

**Ivermectin:**

Additional ecological information : No data available



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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Product : 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.

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### SECTION 14: Transport information

#### 14.1 UN number

ADR : UN 1993

RID : UN 1993

IMDG : UN 1993

IATA : UN 1993

#### 14.2 UN proper shipping name

ADR : FLAMMABLE LIQUID, N.O.S.  
(Isopropanol, Ivermectin)

RID : FLAMMABLE LIQUID, N.O.S.  
(Isopropanol, Ivermectin)

IMDG : FLAMMABLE LIQUID, N.O.S.  
(Isopropanol, Ivermectin)

IATA : Flammable liquid, n.o.s.  
(Isopropanol, Ivermectin)

#### 14.3 Transport hazard class(es)

ADR : 3

RID : 3

IMDG : 3

IATA : 3

#### 14.4 Packing group

**ADR**  
Packing group : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3  
Tunnel restriction code : (D/E)

**RID**  
Packing group : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3

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### IMDG

Packing group : II  
Labels : 3  
EmS Code : F-E, S-E

### IATA (Cargo)

Packing instruction (cargo aircraft) : 364  
Packing instruction (LQ) : Y341  
Packing group : II  
Labels : Flammable Liquids

### IATA (Passenger)

Packing instruction (passenger aircraft) : 353  
Packing instruction (LQ) : Y341  
Packing group : II  
Labels : Flammable Liquids

## 14.5 Environmental hazards

### ADR

Environmentally hazardous : yes

### RID

Environmentally hazardous : yes

### IMDG

Marine pollutant : yes

### IATA (Passenger)

Environmentally hazardous : yes

### IATA (Cargo)

Environmentally hazardous : yes

## 14.6 Special precautions for user

Remarks : IATA: Special provision A197  
IMDG-Code: Chapter 2.10.2.7  
ADR/RID: Special provision 375

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.

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

Not applicable for product as supplied.

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## SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 3

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REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Ivermectin

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.  
P5c FLAMMABLE LIQUIDS

E1 ENVIRONMENTAL HAZARDS

Water contaminating class (Germany) : WGK 3 highly hazardous to water  
Classification according to AwSV, Annex 1 (5.2)

TA Luft List (Germany) : Total dust:  
Not applicable  
Inorganic substances in powdered form:  
Not applicable  
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

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Not applicable

### Other regulations:

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

Take note of Directive 94/33/EC on the protection of young people at work or stricter national

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regulations, where applicable.

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

REACH	:	Not in compliance with the inventory
DSL	:	This product contains the following components that are not on the Canadian DSL nor NDSL.  Crodamol CAP
AICS	:	Not in compliance with the inventory
NZIoC	:	Not in compliance with the inventory
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
TCSI	:	Not in compliance with the inventory
TSCA	:	Substance(s) not listed on TSCA inventory

### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

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## SECTION 16: Other information

### Full text of H-Statements

H225	:	Highly flammable liquid and vapour.
H300	:	Fatal if swallowed.
H311	:	Toxic in contact with skin.
H317	:	May cause an allergic skin reaction.
H319	:	Causes serious eye irritation.
H336	:	May cause drowsiness or dizziness.
H361	:	Suspected of damaging 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.
H400	:	Very toxic to aquatic life.
H410	:	Very toxic to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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Eye Irrit.	: Eye irritation
Flam. Liq.	: Flammable liquids
Lact.	: Effects on or via lactation
Repr.	: Reproductive toxicity
Skin Sens.	: Skin sensitisation
STOT RE	: Specific target organ toxicity - repeated exposure
STOT SE	: Specific target organ toxicity - single exposure
DE TRGS 900	: Germany. TRGS 900 - Occupational exposure limit values.
TRGS 903	: TRGS 903 - Biological limit values
DE TRGS 900 / AGW	: Time Weighted Average

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; SVHC - Substance of Very High Concern; 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.

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### Classification of the mixture:

Flam. Liq. 2	H225
Eye Irrit. 2	H319
Lact.	H362
STOT SE 3	H336
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

### Classification procedure:

Based on product data or assessment
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method

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.

DE / EN