

Ivomec® Pour On

Version 1.1 Revision Date: 05/28/2021 SDS Number: 000000049546 Date of last issue: 06/10/2020
Date of first issue: 06/10/2020

SECTION 1. IDENTIFICATION

Product 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

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 the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids : Category 2

Eye irritation : Category 2A

Skin sensitisation : Category 1

Reproductive toxicity : Category 2

Effects on or via lactation

Specific target organ toxicity - single exposure : Category 3 (Central nervous system)

Ivomec® Pour On

Version 1.1 Revision Date: 05/28/2021 SDS Number: 000000049546 Date of last issue: 06/10/2020
Date of first issue: 06/10/2020

GHS label elements

Hazard pictograms



Signal word

: Danger

Hazard statements

: H225 Highly flammable liquid and vapour.
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.

Precautionary statements

: **Prevention:**

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing 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.
P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
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.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.

Ivomec® Pour On

Version 1.1 Revision Date: 05/28/2021 SDS Number: 000000049546 Date of last issue: 06/10/2020
Date of first issue: 06/10/2020

P363 Wash contaminated clothing before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

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

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

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

Components

| Chemical name | CAS-No. | Concentration (% w/w) |
|------------------------|------------|-----------------------|
| Isopropyl alcohol, IPA | 67-63-0 | >= 50 - < 70 |
| Ivermectin | 70288-86-7 | >= 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.

If swallowed : Rinse mouth.
Drink plenty of water.

Most important symptoms and effects, both acute and delayed : Causes serious eye irritation.
May cause drowsiness or dizziness.
May cause an allergic skin reaction.

Ivomec® Pour On

| | | | |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 06/10/2020 |
| 1.1 | 05/28/2021 | 000000049546 | Date of first issue: 06/10/2020 |

Causes serious eye irritation.
May cause drowsiness or dizziness.
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 mist
Dry chemical
Foam
Carbon dioxide (CO₂)

Unsuitable extinguishing media : High volume water jet

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

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.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Keep away from heat and sources of ignition.

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

Conditions for safe storage : Protect from heat and direct sunlight.

Materials to avoid : Keep away from food, drink and animal feedingstuffs.

Ivomec® Pour On

Version 1.1 Revision Date: 05/28/2021 SDS Number: 000000049546 Date of last issue: 06/10/2020
Date of first issue: 06/10/2020

Observe joint storage prohibition.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

| Components | Basis | Category | Values | Remark |
|---|-------|----------|----------------------|--------|
| Ivermectin 70288-86-7 | BIEL | 3A | 10 µg/m ³ | |
| | BIPC | 3 | | |
| Abbreviations: 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. | | | | |

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 : Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.
Safety glasses with side-shields

Skin and body protection : Protective work clothing

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.

Ivomec® Pour On

Version 1.1 Revision Date: 05/28/2021 SDS Number: 000000049546 Date of last issue: 06/10/2020
Date of first issue: 06/10/2020

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : blue

Odour : alcohol-like

Odour Threshold : No data available

pH : No data available

Melting point/range : No data available

Boiling point/boiling range : 180 °F / 82 °C
(related to the solvent(s))

Flash point : 57 °F / 14 °C

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

Self-ignition : No data available

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 (68 °F / 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 classified due to lack of data.

Ivomec® Pour On

Version 1.1 Revision Date: 05/28/2021 SDS Number: 000000049546 Date of last issue: 06/10/2020
Date of first issue: 06/10/2020

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 data available
Conditions to avoid : No data available
Incompatible materials : No data available
Hazardous decomposition products : No data available

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

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method
Acute dermal toxicity : Acute toxicity estimate: 3,173 mg/kg
Method: Calculation method

Components:**Isopropyl alcohol, IPA:**

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

Ivomec® Pour On

Version 1.1 Revision Date: 05/28/2021 SDS Number: 000000049546 Date of last issue: 06/10/2020
Date of first issue: 06/10/2020

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

Skin corrosion/irritation**Components:****Isopropyl alcohol, IPA:**

Result : No skin irritation

Ivermectin:

Species : Rabbit
Result : No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:**Isopropyl alcohol, IPA:**

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

Ivermectin:

Species : Rabbit
Result : Slightly irritating.

Respiratory or skin sensitisation**Skin sensitisation**

May cause an allergic skin reaction.

Components:**Isopropyl alcohol, IPA:**

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:****Isopropyl alcohol, IPA:**

Ivomec® Pour On

| | | | |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 06/10/2020 |
| 1.1 | 05/28/2021 | 000000049546 | Date of first issue: 06/10/2020 |

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

Genotoxicity in vivo : Remarks: No mutagenic effects reported.

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:****Isopropyl alcohol, IPA:**

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.

IARC No component of this product present at levels greater than or equal to 0.1% is

Ivomec® Pour On

| | | | |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 06/10/2020 |
| 1.1 | 05/28/2021 | 000000049546 | Date of first issue: 06/10/2020 |

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:**Isopropyl alcohol, IPA:**

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 - As- : Some evidence of adverse effects on sexual function and

Ivomec® Pour On

| | | | |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 06/10/2020 |
| 1.1 | 05/28/2021 | 000000049546 | Date of first issue: 06/10/2020 |

assessment fertility, and/or on development, based on animal experiments.
Effects on or via lactation

STOT - single exposure

May cause drowsiness or dizziness.

Components:**Isopropyl alcohol, IPA:**

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

Ivermectin:

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

STOT - repeated exposure**Components:****Isopropyl alcohol, IPA:**

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 |

Ivomec® Pour On

Version 1.1 Revision Date: 05/28/2021 SDS Number: 000000049546 Date of last issue: 06/10/2020
Date of first issue: 06/10/2020

Aspiration toxicity**Components:****Isopropyl alcohol, IPA:**

No data available

Ivermectin:

No data available

Further information**Components:****Ivermectin:**

Remarks : No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****Isopropyl alcohol, IPA:**

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 fish (Chronic toxicity) : Remarks: No data available

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

Toxicity to microorganisms : (*Pseudomonas putida*): 1,050 mg/l
Exposure time: 16 h

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

Ivomec® Pour On

| | | | |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 06/10/2020 |
| 1.1 | 05/28/2021 | 000000049546 | Date of first issue: 06/10/2020 |

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
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 fish (Chronic toxicity) : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC50 (Hyalella azteca (Amphipod)): 0.0017 mg/l
Exposure time: 10 d

NOEC (Hyalella azteca (Amphipod)): 0.00021 mg/l
Exposure time: 10 d

M-Factor (Chronic aquatic toxicity) : 100

Toxicity to microorganisms : Remarks: No data available

Toxicity to soil dwelling organisms : Test Type: artificial soil
EC50 (Eisenia fetida (earthworms)): 5.3 mg/kg
Exposure time: 56 d
Method: OECD Test Guideline 222

Test Type: artificial soil
NOEC (Eisenia fetida (earthworms)): 2.5 mg/kg
Exposure time: 56 d
Method: OECD Test Guideline 222

Persistence and degradability**Components:****Isopropyl alcohol, IPA:**

Ivomec® Pour On

Version 1.1 Revision Date: 05/28/2021 SDS Number: 000000049546 Date of last issue: 06/10/2020
Date of first issue: 06/10/2020

Biodegradability : Result: Readily biodegradable.

Ivermectin:

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

Bioaccumulative potential**Components:****Isopropyl alcohol, IPA:**

Partition coefficient: n-octanol/water : log Pow: 0.05 (77 °F / 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 (68 °F / 20 °C)

Mobility in soil**Components:****Ivermectin:**

Distribution among environmental compartments : log Koc: 3.6 - 4.4

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:**Ivermectin:**

Results of PBT and vPvB assessment : Persistent and Toxic

Additional ecological information : No data available

Ivomec® Pour On

| | | | |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 06/10/2020 |
| 1.1 | 05/28/2021 | 000000049546 | Date of first issue: 06/10/2020 |

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 1993
 Proper shipping name : Flammable liquid, n.o.s.
 (Isopropanol, Ivermectin)
 Class : 3
 Packing group : II
 Labels : Flammable Liquids
 Packing instruction (cargo aircraft) : 364
 Packing instruction (passenger aircraft) : 353
 Environmentally hazardous : yes

IMDG-Code

UN number : UN 1993
 Proper shipping name : FLAMMABLE LIQUID, N.O.S.
 (Isopropanol, Ivermectin)
 Class : 3
 Packing group : II
 Labels : 3
 EmS Code : F-E, S-E
 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 1993
 Proper shipping name : Flammable liquids, n.o.s.
 (Isopropanol, Ivermectin)
 Class : 3
 Packing group : II
 Labels : FLAMMABLE LIQUID
 ERG Code : 128
 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

Ivomec® Pour On

| | | | |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 06/10/2020 |
| 1.1 | 05/28/2021 | 000000049546 | Date of first issue: 06/10/2020 |

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.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)
Respiratory or skin sensitisation
Reproductive toxicity
Serious eye damage or eye irritation
Specific target organ toxicity (single or repeated exposure)

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

| | |
|----------------------------|----------------|
| Isopropyl alcohol, 67-63-0 | >= 50 - < 70 % |
| IPA | |

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCOMI Intermediate or Final VOC's (40 CFR 60.489):

| | | |
|------------------------|---------|----------------|
| Isopropyl alcohol, IPA | 67-63-0 | >= 50 - < 70 % |
|------------------------|---------|----------------|

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**

| | |
|------------------------|---------|
| Isopropyl alcohol, IPA | 67-63-0 |
|------------------------|---------|

Pennsylvania Right To Know

| | |
|------------------------|--------------|
| Isopropyl alcohol, IPA | 67-63-0 |
| Crodamol CAP | Not Assigned |

Ivomec® Pour On

Version 1.1 Revision Date: 05/28/2021 SDS Number: 000000049546 Date of last issue: 06/10/2020
Date of first issue: 06/10/2020

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

California List of Hazardous Substances

Isopropyl alcohol, IPA 67-63-0

California Permissible Exposure Limits for Chemical Contaminants

Isopropyl alcohol, IPA 67-63-0

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

TSCA list

No substances are subject to a Significant New Use Rule.

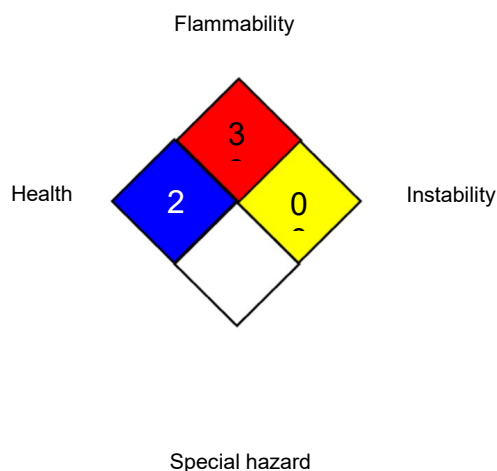
No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION**Further information**

Ivomec® Pour On

Version
1.1Revision Date:
05/28/2021SDS Number:
000000049546Date of last issue: 06/10/2020
Date of first issue: 06/10/2020

NFPA 704:



HMIS® IV:

| | | |
|-----------------|---|---|
| HEALTH | * | 4 |
| FLAMMABILITY | | 3 |
| 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

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - 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

Ivomec® Pour On

| | | | |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 06/10/2020 |
| 1.1 | 05/28/2021 | 000000049546 | Date of first issue: 06/10/2020 |

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.

Revision Date : 05/28/2021

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN