

SAFETY DATA SHEETS

This SDS packet was issued with item:

078803141

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

078345017 078345025

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

078345033 078345041 078345058 078408460 078704964 078714757

Merial

IVOMEK POUR-ON FOR CATTLE

Reviewed on 10/01/2001

1 Identification of substance

Product details

Trade name: Ivomec Pour-On for Cattle

Product number: (2.5L), (5L), (20L)

Manufacturer/Supplier:

Merial Limited

115 Transtech Drive

Athens, GA 30601

Merial Canada Inc.

345 N. Boulevard Labbe

Victoriaville, Quebec G6P 181

Information Phone No.: 819-758-0506

Emergency Phone No.: 800-424-9300

Information department: MSDS Coordinator

Emergency information:

Spill In formation:

CHEMTREC(R) 1-800-424-9300

CHEMTREC(R) International 1+703-527-3887

Reverse charges.

Health Information: 1-888-637-4251, Option 5

2 Composition/Data on components

Chemical characterization

Description: Mixture: consisting of the following components.

Components:

	Non hazardous		19.5%
	inert ingredients		
67-63-0	Isopropanol	Xi, F; R 11-36-67	80.0%
70288-86-7	Ivermectin Comp.	T, N; R 20/21-25-50	0.5%
	Bla (C48H74O1)		
	Comp. Blb (C47H72O14)		

3 Hazards identification

Hazard description:

Pictogram: F Highly flammable

Information pertaining to particular dangers for man and environment: R 11 Highly flammable.

Classification system: The classification was made according to the latest editions of international substances lists, and from company and regulatory data.

NFPA ratings (scale 0 - 4)

Health = 3

Fire = 3

Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = 3

Fire = 3

Reactivity = 0

4 First aid measures

General information: No special measures required. Involve doctor immediately.

After inhalation: Seek immediate medical advice.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for a minimum of 15 minutes under running water. If symptoms occur, consult a doctor.

After swallowing: Immediately call a doctor. Induce vomiting, if person is conscious. Seek medical help.

5 Fire fighting measures

Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water. Water mist

For safety reasons unsuitable extinguishing agents: Water with full jet

Protective equipment: Fire fighters should wear self-contained breathing apparatus and full protective equipment.

6 Accidental release measures

Person-related safety precautions: Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away.

Measures for environmental protection: Do not allow product to reach sewage system or any water course.

Measures for cleaning/collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to Section XIII. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents

7 Handling and Storage

Handling:

Information for safe handling: Store in cool, dry place in tightly closed containers. Handle with care. Avoid jolting and impact. Use only in well ventilated areas.

Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

Storage:

Requirements to be met by storerooms and receptacles: Store in a cool location. Store only in the original container. Protect from light.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles. Store in a cool, dry, well ventilated place.

8 Exposure controls and personal protection

Additional information about design of technical systems: No further data; see item 7.

Components with limit values that require monitoring at the workplace:

67-63-0 Isopropanol

ACGIH TLV (USA)	Short-term value: (1230) mg/m3, (500) ppm
	Long-term value: (983) mg/m3, (400) ppm
	NIC A 4
NIOSH REL (USA)	Short-term value: 1225 mg/m3, 500 ppm
	Long-term value: 980 mg/m3, 400 ppm
OSHA PEL (USA)	980 mg/m3, 400 ppm
MAK (Germany)	500 mg/m3, 200 ppm
	Y; (DFG)

Additional information: The lists that were valid during the creation were used as basis.

Personal protective equipment:

General protective and hygienic measures: Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Do not eat, drink, smoke or inhale. Do not store food in the working area.

Protection of hands: Not required under normal conditions of use.

Eye protection:

Pictogram: Tightly sealed goggles

Body protection: Impervious protective clothing

Merial

IVOMEK POUR-ON FOR CATTLE

9 Physical and chemical properties

Form: Liquid
 Color: Colored liquid
 Odor: Characteristic
 Change in condition
 Melting point/Melting range: Undetermined.
 Boiling point/Boiling range: 82 deg C (180 deg F)
 Flash point: 14 deg C (57 deg F)
 Ignition temperature: 425 deg C (797 deg F)
 Auto igniting: Product is not self-igniting.
 Danger of explosion: Product is not explosive. However,
 formation of explosive air/vapor mixtures are possible.
 Explosion limits:
 Lower: 2.0 Vol %
 Upper: 12.0 Vol %
 Vapor pressure at 20 deg C (68 deg F): 43.0 hPa
 Specific gravity: Not determined.
 Solubility in / Miscibility with Water: Not miscible or
 difficult to mix.
 Solvent content:
 Organic solvents: 80.0%

10 Stability and reactivity

Thermal decomposition / conditions to be avoided: No
 decomposition if used according to specifications.
 Dangerous reactions: No dangerous reactions known.
 Dangerous products of decomposition: No dangerous
 decomposition products known.

11 Toxicological information

Acute toxicity:
 LD/LC50 values that are relevant for classification:
 67-63-0 Isopropanol

Oral	LD50	4570 mg/kg (rat)
Dermal	LD50	13400 mg/kg (rabbit)
Inhalative	LC50/4 h	30 mg/l (rat)

70288-86-7 Ivermectin Comp. Bla (C48H74O1)
 Comp. Blb (C47H72O14)

Oral	LD50	~80 mg/kg (dog) 25 mg/kg (mouse) 50 mg/kg (rat)
Dermal	LD50	406 mg/kg (rabbit) >660 mg/kg (rat)
Inhalative	LC50/4 h	5.11 mg/l (rat)

Primary irritant effect:
 On the skin: No irritating effect known.
 On the eye: No irritating effect known.
 Sensitization: No sensitizing effects known.

12 Ecological information

Ecotoxological effects:
 Acquatic toxicity:

70288-86-7 Ivermectin Comp. Bla (C48H74O1)
 Comp. Blb (C47H72O14)

LC50 /48 hrs 0.025 ppb (daphnia magna)
 LC50/96 hours .3 ug/l (Rainbow Trout)

General notes:
 Water hazard class 1 (Self-assessment): slightly
 hazardous for water. Do not allow undiluted product or
 large quantities of it to reach ground water, water
 course or sewage system.

13 Disposal considerations

Product:
 Recommendation: Can be disposed of with household garbage
 after consulting with the waste disposal facility
 operator and the pertinent authorities and adhering to
 the necessary technical regulations.
 Uncleaned packagings:
 Recommendation: Disposal must be made according to
 official regulations.

14 Transport information

DOT regulations:
 Hazard class: 3
 Identification number: UN1993
 Packing group: II
 Proper shipping name (technical name): Flammable liquid,
 n.o.s., isopropanol (Isopropyl alcohol)
 Land transport ADR/RID (cross-border):
 ADR / RID class: 3 Flammable liquids
 Item: 3b
 Danger code (Kemler): 33
 UN-Number: 1993
 Proper shipping name: 1993 Flammable liquid, n.o.s.,
 isopropanol (Isopropyl alcohol)
 Maritime transport IMDG:
 IMDG Class: 3.2
 Page: 3230
 UN Number: 1993
 Packaging group: II
 EMS Number: 3-07
 MFAG: 310,313
 Marine pollutant: No
 Proper shipping name: Flammable liquid, n.o.s.,
 isopropanol (Isopropyl alcohol)
 Air transport ICAO-TI and IATA-DGR:
 ICAO/IATA Class: 3
 UN/ID Number: 1993
 Packing group: II
 Proper shipping name: Flammable liquid, n. o. s.,
 isopropanol (Isopropyl alcohol)

15 Regulations

Sara
 Section 355 (extremely hazardous substances): None of the
 ingredients are listed.
 Section 313 (Specific toxic chemical listings):
 67-63-0 | Isopropanol
 TSCA (Toxic Substances Control Act):
 67-63-0 | Isopropanol
 CA Proposition 65
 Chemicals known to cause cancer: None of the ingredients
 are listed.
 Chemicals known to cause reproductive toxicity: None of
 the ingredients are listed.
 Product related hazard informations: The product has been
 classified and marked in accordance with directives on
 hazardous materials.
 Hazard symbols: F Highly flammable
 Risk phrases: 11 Highly flammable.
 Safety phrases:
 2 Keep out of the reach of children.
 7/9 Keep container tightly closed and in a well-
 ventilated place.
 16 Keep away from sources of ignition - No smoking.
 29 Do not empty into drains.
 33 Take precautionary measures against static
 discharges.
 43 In case of fire, use sand, carbon dioxide or powdered
 extinguishing agent. Never use water.
 46 If swallowed, seek medical advice immediately and
 show this container or label.
 51 Use only in well-ventilated areas.

Merial

IVOMEC POUR-ON FOR CATTLE

Water hazard class:

Water hazard class 1 (Self-assessment): slightly
hazardous for water.

16 Other information

This information is based on our present knowledge.
However, this shall not constitute a guarantee for any
specific product features and shall not establish a legally
valid contractual relationship.

Contact: MSDS Coordinator, 706-552-2739, msds@merial.com

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES: although
preparer and owner have taken reasonable care in the
preparation of this document, we extend no warranties and
make no representation as to the accuracy or completeness
of the information contained herein, and assume no
responsibility regarding the suitability of this
information for the user's intended purposes or for the
consequences of its use. Each user should make a
determination as to the suitability of the information for
their particular purpose(s). A request has been made to the
manufacturer to approve the contents of this material
safety data sheet. Upon receipt of any changes a new MSDS
will be made available.

COMPAS Code: 45920010



Material Safety Data Sheet
ISO/DIS 11014 / 29 CFR 1910.1200 / ANSI Z400.1

Printing date 10/13/2010

Reviewed on 10/13/2010





1 Identification of substance

- **Product details**
- **Trade name:** IVOMEC POUR-ON FOR CATTLE
- **Manufacturer/Supplier:**
Merial Limited
3239 Satellite Blvd.
Duluth, Ga. 30096-4640
1-888-MERIAL 1 (1-888-637-4251)
- **Emergency information:**
Spill Information:
CHEMTREC® 1-800-424-9300
CHEMTREC® International 1+703-527-3887
International calls 011+703-527-3887
Reverse charges.

2 Composition/Data on components

- **Chemical characterization**

- **Components:**

67-63-0	Isopropanol	 Xi,  F; R 11-36-67	80.0%
70288-86-7	Ivermectin Comp. B1a Comp. B1b	 T,  N; R 20/21-25-50	0.5%
	Non hazardous inert ingredients		19.5 %

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

- **Hazard description:**



Irritant
Highly flammable

- **Information pertaining to particular dangers for man and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Has a narcotizing effect.

Highly flammable.

Irritating to eyes.

Vapours may cause drowsiness and dizziness

- **Classification system:**

The classification was made according to the latest editions of international substances lists, and from company and regulatory data.

USA

Material Safety Data Sheet

ISO/DIS 11014 / 29 CFR 1910.1200 / ANSI Z400.1

Printing date 10/13/2010

Reviewed on 10/13/2010

Trade name: IVOMEK POUR-ON FOR CATTLE

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



4 First aid measures

- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
If skin irritation occurs, consult a doctor.
- **After eye contact:**
Rinse opened eye for a minimum of 15 minutes under running water. Get medical attention immediately.
- **After swallowing:** Do not induce vomiting; immediately call for medical help.
- **After self injection**
- **Information for doctor.** In case of symptomatic effect provide treatment to maintain life functions.

5 Fire fighting measures

- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Protective equipment:** Self-contained breathing apparatus and full protective equipment.

6 Accidental release measures

- **Person-related safety precautions:**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
- **Measures for environmental protection:** Do not allow product to reach sewage system or any water course.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to section 13.
Ensure adequate ventilation.

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
Store in cool, dry place in tightly closed containers.
Handle with care. Avoid jolting and impact.
Use only in well ventilated areas.

USA

Material Safety Data Sheet

ISO/DIS 11014 / 29 CFR 1910.1200 / ANSI Z400.1

Printing date 10/13/2010

Reviewed on 10/13/2010

Trade name: IVOMEK POUR-ON FOR CATTLE

· **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

· **Storage:**

- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
Store in a cool, dry, well ventilated place.
- **Recommended storage temperature:** < 30°C (86°F)

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

· **Components with limit values that require monitoring at the workplace:**

67-63-0 Isopropanol

PEL (USA)	980 mg/m ³ , 400 ppm
REL (USA)	Short-term value: 1225 mg/m ³ , 500 ppm Long-term value: 980 mg/m ³ , 400 ppm
TLV (USA)	Short-term value: 984 mg/m ³ , 400 ppm Long-term value: 492 mg/m ³ , 200 ppm
MAK (Germany)	500 mg/m ³ , 200 ppm Y; DFG

- **Additional information:** The lists that were valid during the creation were used as basis.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
Do not eat, drink, smoke or inhale.
Do not store food in the working area.

- **Breathing equipment:** Use suitable respiratory protective device when aerosol or mist is formed.

- **Protection of hands:** Not required under normal conditions of use.

- **Eye protection:**



Safety goggles.

9 Physical and chemical properties

· **General Information**

Form:	Liquid
Color:	Blue
Odor:	Like alcohol

USA

Material Safety Data Sheet

ISO/DIS 11014 / 29 CFR 1910.1200 / ANSI Z400.1

Printing date 10/13/2010

Reviewed on 10/13/2010

Trade name: **IVOMEK POUR-ON FOR CATTLE**

- **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 82.5°C (181°F)

- **Flash point:** 14°C (57°F)

- **Ignition temperature:** 425.0°C (797°F)

- **Auto igniting:** Product is not self-igniting.

- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

- **Explosion limits:**

Lower: 2.0 Vol %

Upper: 12.0 Vol %

- **Vapor pressure at 20°C (68°F):** 43.0 hPa (32 mm Hg)

- **Specific gravity at 20°C (68°F):** 0 g/cm³

- **Solubility in / Miscibility with**

Water: Not miscible or difficult to mix.

Organic solvents: 80.0 %

Solids content: 0.5 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

- **Materials to be avoided:**

- **Dangerous reactions**

Reacts with acetaldehyde, chlorine, ethylene oxide, hypochlorous acid, isocyanates, phosgene, oleum, perchloric acid, and strong oxidizing agents.

- **Dangerous products of decomposition:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

67-63-0 Isopropanol

Oral	LD50	4570 mg/kg (rat)
Dermal	LD50	13400 mg/kg (rabbit)
Inhalation	LC50/4 h	30 mg/l (rat)

**70288-86-7 Ivermectin Comp. B1a
Comp. B1b**

Oral	LD Oral	>15 mg/kg (adult human)
	LD50	~80 mg/kg (dog)
		25 mg/kg (mouse)
		50 mg/kg (rat)
		>24 mg/kg (Rhesus monkey)

USA

Material Safety Data Sheet

ISO/DIS 11014 / 29 CFR 1910.1200 / ANSI Z400.1

Printing date 10/13/2010

Reviewed on 10/13/2010

Trade name: IVOMEK POUR-ON FOR CATTLE

Dermal	LD50	406 mg/kg (rabbit) >660 mg/kg (rat)
Inhalation	LC50/4h	>0.4 mg/kg (rat)
	LD Subcutaneous	>1.6 mg/kg (adult human)
	LD50 Intraperitoneal	55 mg/kg (rat)
	LD50 Subcutaneous	~10 mg/kg (juvenile dog)

· **Primary irritant effect:**

· **on the skin:** No irritating effect known.

· **on the eye:** Irritating effect.

· **Sensitization:** No sensitizing effects known.

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

12 Ecological information

· **Ecotoxicological effects:**

· **Aquatic toxicity:**

70288-86-7 Ivermectin Comp. B1a

Comp. B1b

LC50 / 48 hrs 0.025 ppb (Daphnia magna)

LC50/96 hours 0.3 ug/l (Rainbow Trout)

13 Disposal considerations

· **Product:**

· **Recommendation:** Disposal must be made according to official regulations.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **DOT regulations:**



· **Hazard class:**

3

· **Identification number:**

UN1219

· **Packing group:**

II

· **Proper shipping name (technical name):** ISOPROPANOL (ISOPROPYL ALCOHOL)

USA

Material Safety Data Sheet

ISO/DIS 11014 / 29 CFR 1910.1200 / ANSI Z400.1

Printing date 10/13/2010

Reviewed on 10/13/2010

Trade name: **IVOMECH POUR-ON FOR CATTLE**· **Label** 3· **Land transport ADR/RID (cross-border):**

· **ADR/RID class:** 3 Flammable liquids
 · **Danger code (Kemler):** 33
 · **UN-Number:** 1219
 · **Packaging group:** II
 · **Proper shipping name:** 1263 PAINT

· **Maritime transport IMDG:**

· **IMDG Class:** 3
 · **UN Number:** 1219
 · **Label** 3
 · **Packaging group:** II
 · **EMS Number:** F-E,S-E
 · **Marine pollutant:** Yes
 · **Proper shipping name:** ISOPROPANOL (ISOPROPYL ALCOHOL)

· **Air transport ICAO-TI and IATA-DGR:**

· **ICAO/IATA Class:** 3
 · **UN/ID Number:** 1219
 · **Label** 3
 · **Packing group:** II
 · **Proper shipping name:** ISOPROPANOL (ISOPROPYL ALCOHOL)

15 Regulations

· **SARA**· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

67-63-0 Isopropanol

· **TSCA (Toxic Substances Control Act):**

67-63-0 Isopropanol

· **CA Proposition 65**· **Chemicals known to cause cancer:**

None of the ingredients are listed.

USA

Material Safety Data Sheet

ISO/DIS 11014 / 29 CFR 1910.1200 / ANSI Z400.1

Printing date 10/13/2010

Reviewed on 10/13/2010

Trade name: IVOMEK POUR-ON FOR CATTLE
· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenesis potential categories
· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· IARC (International Agency for Research on Cancer)

67-63-0 Isopropanol

3

· NTP (National Toxicology Program)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· Product related hazard informations:
· Hazard symbols:

Irritant

Highly flammable

· Risk phrases:

Highly flammable.

Irritating to eyes.

Vapours may cause drowsiness and dizziness

· Safety phrases:

Keep out of the reach of children.

Keep container tightly closed and in a well-ventilated place.

Keep away from sources of ignition - No smoking.

Do not breathe gas/fumes/vapour/spray.

Avoid contact with skin and eyes.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point

Take precautionary measures against static discharges.

In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.

If swallowed, seek medical advice immediately and show this container or label.

This material and its container must be disposed of as hazardous waste.

If swallowed, rinse mouth with water (only if the person is conscious)

· Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.

USA

Material Safety Data Sheet
ISO/DIS 11014 / 29 CFR 1910.1200 / ANSI Z400.1

Printing date 10/13/2010

Reviewed on 10/13/2010

Trade name: IVOMEC POUR-ON FOR CATTLE

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Contact:** MSDS Coordinator, msds@merial.com

USA



Safety Data Sheet

ISO/DIS 11014 / 29 CFR 1910.1200 / ANSI Z400.1

Printing date 10/19/2017

Reviewed on 10/18/2017

1 Identification

- **Product identifier**
- **Trade name:** Ivomec® Pour On (finished product)
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Merial, Inc.
3239 Satellite Blvd.
Duluth, Ga. 30096-4640
1-888-MERIAL 1 (1-888-637-4251)
- **Emergency telephone number:**
Emergency information:
Spill Information:
CHEMTREC® 1-800-424-9300
CHEMTREC® International 1+703-527-3887
International calls 011+703-527-3887
Reverse charges
Spill Information:
CHEMTREC® 1-800-424-9300
CHEMTREC® International 1+703-527-3887
International calls 011+703-527-3887
Reverse charges.

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms** GHS02, GHS07
- **Signal word** Danger
- **Hazard-determining components of labeling:**
Isopropanol
- **Hazard statements**
H225 Highly flammable liquid and vapor.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
- **Precautionary statements**
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

US

Safety Data Sheet

ISO/DIS 11014 / 29 CFR 1910.1200 / ANSI Z400.1

Printing date 10/19/2017

Reviewed on 10/18/2017

Trade name: Ivomec® Pour On (finished product)

- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
 P261 Avoid breathing dust/fume/gas/mist/vapors/spray
 P280 Wear protective gloves / eye protection / face protection.
 P240 Ground/bond container and receiving equipment.
 P242 Use only non-sparking tools.
 P243 Take precautionary measures against static discharge.
 P264 Wash thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P312 Call a POISON CENTER/doctor if you feel unwell.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P370+P378 In case of fire: Use for extinction: CO₂, powder or water spray.
 P405 Store locked up.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Components:**

67-63-0	Isopropanol	50-70%
	⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2A, H319; STOT SE 3, H336	
70288-86-7	Ivermectin Comp. B1a	≥ 0.25 - < 1%
	Comp. B1b	
	⚠ Acute Tox. 2, H300; Acute Tox. 3, H311; ⚠ Acute Tox. 4, H332	

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

US

Safety Data Sheet

ISO/DIS 11014 / 29 CFR 1910.1200 / ANSI Z400.1

Printing date 10/19/2017

Reviewed on 10/18/2017

Trade name: Ivomec® Pour On (finished product)

4 First-aid measures

- **Description of first aid measures**

- **General information:**

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.

- **After inhalation:** Move to fresh air.

- **After skin contact:** Wash off immediately with plenty of water.

- **After eye contact:**

Rinse immediately with plenty of water for at least 15 minutes. Keep eye wide open while rinsing.

- **After swallowing:** Rinse mouth. Drink plenty of water.

- **After self injection**

- **Most important symptoms and effects, both acute and delayed**

Causes serious eye irritation. May cause drowsiness or dizziness.

- **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**

- **Suitable extinguishing agents:**

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **Special hazards arising from the substance or mixture**

In case of fire and/or explosion do not breathe fumes. Carbon oxides can be released in case of fire.

- **Advice for firefighters**

- **Protective equipment:** Self-contained breathing apparatus and full protective equipment.

- **Additional 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.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

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

- **Environmental precautions:** Do not allow product to reach sewage system or any water course.

- **Methods and material for containment and cleaning up:** Pick up and transfer to properly labelled containers.

- **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- **Handling:**

- **Precautions for safe handling**

Provide sufficient air exchange and/or exhaust in work rooms.

Wash hands and face before breaks and immediately after handling the product. Keep working clothes separately.

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- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Protect from heat and direct sunlight.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep away from food, drink and animal feeding stuffs.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
At this time, the remaining constituent has no known exposure limits.

67-63-0 Isopropanol

PEL (USA)	Long-term value: 980 mg/m ³ , 400 ppm
REL (USA)	Short-term value: 1225 mg/m ³ , 500 ppm Long-term value: 980 mg/m ³ , 400 ppm
TLV (USA)	Short-term value: 984 mg/m ³ , 400 ppm Long-term value: 492 mg/m ³ , 200 ppm BEI
AGW (Germany)	Long-term value: 500 mg/m ³ , 200 ppm 2(II);DFG, Y

- **Ingredients with biological limit values:**

67-63-0 Isopropanol

BEI (USA)	40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)
BGW (Germany)	25 mg/l Untersuchungsmaterial: Vollblut Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Aceton 25 mg/l Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Aceton

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic 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

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function.

- **Breathing equipment:** Use suitable respiratory protective device when aerosol or mist is formed.
- **Protection of hands:** Wear nitrile rubber gloves to minimize skin exposure.
- **Eye protection:** Wear safety glasses with side shields for normal handling.

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Liquid

Color: Blue

· **Odor:** Like alcohol

· Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 82 °C (180 °F)

· **Flash point:** 14 °C (57 °F)

· **Ignition temperature:** 425.0 °C (797 °F)

· **Auto igniting:** Product is not self-igniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· Explosion limits:

Lower: 2.0 Vol %

Upper: 12.0 Vol %

· **Vapor pressure at 20 °C (68 °F):** 43 hPa (32 mm Hg)

· **Specific gravity:** Not determined.

· Solubility in / Miscibility with

Water: Not determined.

Organic solvents: 80.0 %

Solids content: 0.5 %

· **Other information** No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.

· **Chemical stability**

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **Possibility of hazardous reactions** No data available

· **Conditions to avoid** Extremes of temperature and direct sunlight.

· **Incompatible materials:** No further relevant information available.

· **Hazardous decomposition products:** No dangerous decomposition products known.

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11 Toxicological information

· **Information on toxicological effects**

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

67-63-0 Isopropanol

Oral	LD50	4570 mg/kg (rat)
Dermal	LD50	13400 mg/kg (rabbit)
Inhalation	LC50/4 h	30 mg/l (rat)

70288-86-7 Ivermectin Comp. B1a Comp. B1b

Oral	LD50	~80 mg/kg (dog) 25 mg/kg (mouse) 50 mg/kg (rat) >24 mg/kg (Rhesus monkey)
Dermal	LD Oral	>15 mg/kg (adult human)
	LD50	406 mg/kg (rabbit) >660 mg/kg (rat)
Inhalation	LC50/4h	>0.4 mg/kg (rat)
	LD50	55 mg/kg (rat)
	LD50 Subcutaneous	~10 mg/kg (juvenile dog)
	LD Subcutaneous	>1.6 mg/kg (adult human)

· **Primary irritant effect:**

· **on the skin:** No irritating effect known.

· **on the eye:** Causes serious eye irritation.

· **Sensitization:** No sensitizing effects known.

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

67-63-0 Isopropanol

3

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**

70288-86-7 Ivermectin Comp. B1a Comp. B1b

LC50/96 hours	.3 ug/l (Rainbow Trout)
LC50 / 48 hrs	0.025 ppb (Daphnia magna)

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- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:** Disposal must be made according to official regulations.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|---|--|
| · UN-Number | UN1993 |
| · DOT, ADR, IMDG, IATA | |
| · UN proper shipping name | FLAMMABLE LIQUID, N.O.S. (Isopropanol, Ivermectin) |
| · DOT, ADR, IMDG, IATA | |
| · Transport hazard class(es) | |
| · DOT | |
|  | |
| · Class | 3 Flammable liquids |
| · Label | 3 |
| | |
| · ADR, IMDG, IATA | |
|  | |
| · Class | 3 Flammable liquids |
| · Label | 3 |
| · Packing group | II |
| · DOT, ADR, IMDG, IATA | |
| · Environmental hazards: | |
| · Marine pollutant: | Yes |
| · Special precautions for user | Warning: Flammable liquids |
| · Danger code (Kemler): | 33 |
| · EMS Number: | F-E,S-E |

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- | | |
|--|----------------------------|
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · UN "Model Regulation": | UN 1219 ISOPROPANOL, 3, II |

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **SARA**

· Section 355 (extremely hazardous substances):
--

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):
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67-63-0 Isopropanol

· TSCA (Toxic Substances Control Act):

67-63-0 Isopropanol

· CA Proposition 65

· Chemicals known to cause cancer:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for females:
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None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:
--

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenesis potential categories
--

· EPA (Environmental Protection Agency)
--

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

67-63-0 Isopropanol	A4
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· MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
--

· Hazard pictograms GHS02, GHS07

· Signal word Danger

· Hazard-determining components of labeling:

Isopropanol

· Hazard statements

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

· Precautionary statements

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
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P241	Use explosion-proof electrical/ventilating/lighting/equipment.
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- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P280 Wear protective gloves / eye protection / face protection.
- P240 Ground/bond container and receiving equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P264 Wash thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 Call a POISON CENTER/doctor if you feel unwell.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
- P405 Store locked up.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Contact:** SDS Coordinator, msds@merial.com
- **Date of preparation / last revision** 10/19/2017 / -
- **Abbreviations and acronyms:**
 - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 - IMDG: International Maritime Code for Dangerous Goods
 - DOT: US Department of Transportation
 - IATA: International Air Transport Association
 - ACGIH: American Conference of Governmental Industrial Hygienists
 - EINECS: European Inventory of Existing Commercial Chemical Substances
 - ELINCS: European List of Notified Chemical Substances
 - CAS: Chemical Abstracts Service (division of the American Chemical Society)
 - NFPA: National Fire Protection Association (USA)
 - HMIS: Hazardous Materials Identification System (USA)
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent
 - PBT: Persistent, Bioaccumulative and Toxic
 - vPvB: very Persistent and very Bioaccumulative
 - NIOSH: National Institute for Occupational Safety
 - OSHA: Occupational Safety & Health
 - TLV: Threshold Limit Value
 - PEL: Permissible Exposure Limit
 - REL: Recommended Exposure Limit
 - BEI: Biological Exposure Limit
 - Flam. Liq. 2: Flammable liquids – Category 2
 - Acute Tox. 2: Acute toxicity – Category 2
 - Acute Tox. 3: Acute toxicity – Category 3
 - Acute Tox. 4: Acute toxicity – Category 4
 - Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
 - STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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