

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

078714591

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

078408437 078408510 078704972 078714583

**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 078803141



## 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.

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

Printing date 10/19/2017

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**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: CO<sub>2</sub>, 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.

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**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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**Trade name: Ivomec® Pour On (finished product)**

- **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 <sup>3</sup> , 400 ppm
REL (USA)	Short-term value: 1225 mg/m <sup>3</sup> , 500 ppm Long-term value: 980 mg/m <sup>3</sup> , 400 ppm
TLV (USA)	Short-term value: 984 mg/m <sup>3</sup> , 400 ppm Long-term value: 492 mg/m <sup>3</sup> , 200 ppm BEI
AGW (Germany)	Long-term value: 500 mg/m <sup>3</sup> , 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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**Trade name: Ivomec® Pour On (finished product)**

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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**Trade name: Ivomec® Pour On (finished product)**

### 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)

US

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

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**Trade name: Ivomec® Pour On (finished product)**

- **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

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

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

### 15 Regulatory information

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

<b>· Section 355 (extremely hazardous substances):</b>
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None of the ingredients are listed.
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<b>· Section 313 (Specific toxic chemical listings):</b>
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67-63-0	Isopropanol
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<b>· TSCA (Toxic Substances Control Act):</b>
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67-63-0	Isopropanol
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<b>· CA Proposition 65</b>
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<b>· Chemicals known to cause cancer:</b>
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None of the ingredients are listed.
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<b>· Chemicals known to cause reproductive toxicity for females:</b>
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None of the ingredients is listed.
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<b>· Chemicals known to cause reproductive toxicity for males:</b>
--------------------------------------------------------------------

None of the ingredients is listed.
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<b>· Chemicals known to cause developmental toxicity:</b>
-----------------------------------------------------------

None of the ingredients is listed.
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<b>· Carcinogenesis potential categories</b>
----------------------------------------------

<b>· EPA (Environmental Protection Agency)</b>
------------------------------------------------

None of the ingredients is listed.
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<b>· TLV (Threshold Limit Value established by ACGIH)</b>
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67-63-0	Isopropanol
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<b>· MAK (German Maximum Workplace Concentration)</b>
-------------------------------------------------------

None of the ingredients is listed.
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<b>· NIOSH-Ca (National Institute for Occupational Safety and Health)</b>
---------------------------------------------------------------------------

None of the ingredients is listed.
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<b>· GHS label elements</b> The product is classified and labeled according to the Globally Harmonized System (GHS).
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<b>· Hazard pictograms</b> GHS02, GHS07
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<b>· Signal word</b> Danger
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<b>· Hazard-determining components of labeling:</b>
-----------------------------------------------------

Isopropanol
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<b>· Hazard statements</b>
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H225 Highly flammable liquid and vapor.
-----------------------------------------

H319 Causes serious eye irritation.
-------------------------------------

H336 May cause drowsiness or dizziness.
-----------------------------------------

<b>· Precautionary statements</b>
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P210
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Keep away from heat/sparks/open flames/hot surfaces. No smoking.
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P241
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Use explosion-proof electrical/ventilating/lighting/equipment.
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**Trade name: Ivomec® Pour On (finished product)**

- 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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