

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



Printing date 03/23/2016

Reviewed on 03/23/2016

**1 Identification**

- **Product identifier**
- **Trade name: IVOMEK POUR-ON FOR CATTLE**
- **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  
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CHEMTREC® International 1+703-527-3887  
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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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- 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)**

HEALTH	1	Health = 1
FIRE	4	Fire = 4
REACTIVITY	0	Reactivity = 0

· **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 Flam. Liq. 2, H225;  Eye Irrit. 2A, H319; STOT SE 3, H336	80.0%
70288-86-7	Ivermectin Comp. B1a Comp. B1b Acute Tox. 2, H300; Acute Tox. 3, H311; Acute Tox. 3, H331	0.5%
	Non hazardous inert ingredients	19.5%

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

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### 4 First-aid measures

- **Description of 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**
- **Most important symptoms and effects, both acute and delayed**  
In case of symptomatic effect provide treatment to maintain life functions.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, 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
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Self-contained breathing apparatus and full protective equipment.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation
- **Environmental precautions:** Do not allow product to reach sewage system or any water course.
- **Methods and material for containment and cleaning up:**  
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.
- **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**  
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.

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*Protect against electrostatic charges.*

- **Conditions for safe storage, including any incompatibilities**
- **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)
- **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:**

#### 67-63-0 Isopropanol

PEL (USA)	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
MAK (Germany)	500 mg/m <sup>3</sup> , 200 ppm Y; DFG

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

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### 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· <b>Form:</b>	Liquid
· <b>Color:</b>	Blue
· <b>Odor:</b>	Like alcohol

· **Change in condition**

· <b>Melting point/Melting range:</b>	Undetermined.
· <b>Boiling point/Boiling range:</b>	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:**

· <b>Lower:</b>	2.0 Vol %
· <b>Upper:</b>	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/cm<sup>3</sup> (0 lbs/gal)

· **Solubility in / Miscibility with**

· **Water:** Not miscible or difficult to mix.

· **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**

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

· **Conditions to avoid** No further relevant information available.

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

· **Carcinogenic categories**

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

67-63-0 Isopropanol

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· **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 / 48 hrs	0.025 ppb (Daphnia magna)
LC50/96 hours	0.3 ug/l (Rainbow Trout)

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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

- |   |                                 |
|---|---------------------------------|
| · <b>UN-Number</b>  |                                 |
| · <b>DOT</b>  | UN1219                          |
| · <b>ADR, IMDG, IATA</b>  | 1219                            |
| <hr/>   |                                 |
| · <b>UN proper shipping name</b>  |                                 |
| · <b>DOT, IMDG, IATA</b>  | ISOPROPANOL (ISOPROPYL ALCOHOL) |
| <hr/>   |                                 |
| · <b>Transport hazard class(es)</b>   |                                 |
| · <b>DOT</b>  |                                 |
|  |                                 |
| · <b>Class</b>  | 3 Flammable liquids             |
| · <b>Label</b>  | 3                               |
| <hr/>   |                                 |
| · <b>ADR, IMDG, IATA</b>  |                                 |
|  |                                 |
| · <b>Class</b>  | 3 Flammable liquids             |
| · <b>Label</b>  | 3                               |
| <hr/>   |                                 |
| · <b>Packing group</b>  |                                 |
| · <b>DOT, ADR, IMDG, IATA</b>   | II                              |
| <hr/>   |                                 |
| · <b>Environmental hazards:</b>   |                                 |
| · <b>Marine pollutant:</b>  | Yes                             |
| <hr/>   |                                 |
| · <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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- **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):**

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:**

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)**

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.

· **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.

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:** MSDS Coordinator, [msds@merial.com](mailto:msds@merial.com)
- **Date of preparation / last revision** 03/23/2016 / -
- **Abbreviations and acronyms:**  
*Flam. Liq. 2: Flammable liquids, Hazard Category 2*  
*Acute Tox. 2: Acute toxicity, Hazard Category 2*  
*Acute Tox. 3: Acute toxicity, Hazard Category 3*  
*Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A*  
*STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3*