

SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

SECTION 1.1 : PRODUCT IDENTIFIER

PRODUCT NAME : IVERMECTIN Pour-On Solution 5mg/ml (0.5%)-All presentation Volumes
 PRODUCT TYPE : MIXTURE
 REACH REGISTRATION : Not Available

SECTION 1.2 : RELEVANT IDENTIFIED USES, & USES ADVISED AGAINST

IDENTIFIED USES : VETERINARY; Topical Parasiticide with Anthelmintic Properties

SECTION 1.3 : DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

COMPANY NAME : Chanelle Pharmaceuticals Manufacturing Ltd.,
 COMPANY ADDRESS : Dublin Road, Loughrea, Co. Galway, Rep. of Ireland
 HOURS OF BUSINESS : 8.30 AM -5.00 PM (GMT)

SECTION 1.4 : EMERGENCY CONTACT INFORMATION

COMPANY TELEPHONE : +353-(0)-91-841-788 (Reception -during office hours)
 COMPANY FAX : +353-(0)-91-841-303
 COMPANY WEBSITE : <http://www.chanellegroup.ie/>



SECTION 2 : HAZARDS IDENTIFICATION

SECTION 2.1 : CLASSIFICATION OF THE SUBSTANCE/MIXTURE

CLASSIFICATION ACCORDING TO REGULATION 1272/2008/EC

Flammable Liquid & Vapour †	Category 3 †	H226†	Signal: WARNING †
Eye Damage/Irritation	Category 2	H319	Signal: WARNING
Specific Target Organ Toxicity (STOT) (Single Exposure)	Category 3	H336	Signal: WARNING

SECTION 2.2 : LABEL ELEMENTS



LABELLING ACCORDING TO REGULATION 1272/2008/EC [CLP]					
  WARNING †	Hazard Statements H226: Flammable Liquid & Vapour † H319: Causes Serious Eye Irritation H336: May Cause Drowsiness or Dizziness	Precautionary Statements			
		Prevention	Response	Storage	Disposal
		P210	P303+P361+P353	P403+P235	P501
		P233	P304+P340	P405	
		P240	P305+P351+P338		
		P241	P312		
		P242	P337+P313		
		P243	P370+P378		
		P261			
		P264			
		P270			
		P271			
		P280			
Full Explanation of P-Statements detailed in Section 16					

SECTION 2.3 : OTHER HAZARDS

- * Refer to Section 4 for First Aid Measures
- * Refer to Section 5 regarding Thermal Decomposition
- * Refer to Section 11 for Toxicological Data
- * Refer to Section 12 for Environmental Toxicity Data
- * **This SDS has been updated indicated by "†": Please Refer to Section 16 for full list of updates from the Previous Version**

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS.

SECTION 3.1 : SUBSTANCE : NOT APPLICABLE
SECTION 3.2 : MIXTURE : INGREDIENTS ACCORDING TO 1272/2008/EC

COMPONENT	TYPE	CONC%	CAS	CLASSIFICATION	GHS & CLP LABEL (ingredient)
IVERMECTIN	API	0.5%	70288-86-7	Acute Tox Cat 1 (ORAL) DANGER Acute Tox Cat 3 (DERMAL) DANGER Repr Tox Cat 2 WARNING Aquatic Acute Cat 1 WARNING	 H300: Fatal if Swallowed H311: Toxic in contact with Skin H361: Suspected of Damaging Fertility or The Unborn Child H400: Very Toxic to Aquatic Life
ISOPROPANOL	Excipient	<80.0%	67-63-0	Flammable Liquid Cat 2 DANGER Eye Damage/Irritation Cat 2 WARNING STOT (Single Exp.) Cat 3 WARNING	 H225: Highly Flammable Liquid & Vapour H319: Causes Serious Eye Irritation H336: May Cause Drowsiness or Dizziness

Note: All other ingredients, not listed above, are either below reportable levels, or are not classified as hazardous according to regulation.

SECTION 4 : FIRST AID MEASURES.

SECTION 4.1 : Description of First Aid Measures (First Aid Section Refers to the Finished Product Mixture)

General: If unconscious, place person on their side in the recovery position; contact medical aid; give access to this SDS.
Inhalation: If coughing, dizziness, or irritation develops remove to Fresh Air; Keep Patient Warm; Seek Medical Assistance
Skin Contact: Wash affected area with mild soap & water; if irritation develops contact physician.
Eye Contact: Rinse open eye with water for several minutes; Remove Contact Lenses if present. Seek Medical Advice
Ingestion: Rinse Mouth with water; immediately contact medical physician/assistance showing the pack information or this SDS; Keep patient in resting position; Allow patient (if conscious) to drink water; Never administer anything to patient in an unconscious state; DO NOT INDUCE VOMITING unless directed to do so by a medical physician; if patient loses consciousness, place in recovery position.

SECTION 4.2 : Most Important Symptoms and Effects (Acute & Delayed): This product contains ingredients which are known to induce narcosis if inhaled. High levels of exposure by inhalation may result in drowsiness, numbness, vomiting, headache, & narcosis

SECTION 4.3 : Indication of Any Immediate Medical Attention & Special Treatment Needed
Notes to Physician: Treat Symptomatically.

SECTION 5 : FIREFIGHTING MEASURES.

SECTION 5.1:

Suitable Extinguishing Media:
 Unsuitable Extinguishing Media:

EXTINGUISHING MEDIA

Dry Chemical Powder; Carbon Dioxide; Foam; Water Spray;
 Full Water Jet deemed unsuitable as it may spread the flame.

SECTION 5.2:

Hazardous Thermal Decomposition Products:

SPECIAL HAZARDS (arising from substance/mixture)

Possibility of Carbon Oxides (COx) and Nitrogen Oxides (NOx). Can react violently with strong oxidisers, Isopropanol vapour considered heavier than air which may travel along ground back to ignition source and flash back.

SECTION 5.3:

ADVICE FOR FIREFIGHTERS

Wear self-contained respiratory protection; Wear Protective Clothing; Evacuate Area
 Collect contaminated Fire Fighting Media, Not to be discharged to drain. Flammable liquid. Keep away from sources of ignition. Vapours can travel to source of ignition. Exposure to fire may cause container to rupture or if heated under confinement

ADDITIONAL INFORMATION

SECTION 6 : ACCIDENTAL RELEASE MEASURES.

SECTION 6.1

For Non-Emergency Personnel:

Personal Precautions, Protective Equipment & Emergency Procedures

No action should be taken without appropriate training, PPE, or if danger of personal risk exists. Do not walk through, touch or attempt to contain spilled material without PPE. Refer to Section 8 for PPE requirements. No Smoking. Unnecessary personnel should be removed to safe area.

For Emergency Personnel:

Refer to section 8 for required PPE to contain spillage. Ensure proper containment for disposal as detailed in Section 13. Affected Area may then be cleaned with Water and Detergent.

SECTION 6.2

ENVIRONMENTAL PRECAUTIONS

Do NOT discharge spilled material to soil, sewers, waterways, surface or ground waters.
 Contact relevant authorities if contamination occurs.

SECTION 6.3

MATERIALS/METHODS (for containment and clean-up)

Approach release from up-wind. Absorb spilled material with a suitable absorptive agent (e.g. Spill Kit/ Diatomaceous Earth). Label collected material appropriately and store for disposal referring to Section 13

SECTION 7 : HANDLING & STORAGE.

SECTION 7.1 : **PRECAUTIONS FOR SAFE HANDLING: (Refer to section 4 for First Aid Protocols)**
 Avoid contact with skin and eyes. Avoid breathing mist/vapours. DO NOT eat, drink or smoke during use of product. Wash Hands after use. Keep container tightly closed when not in use.

FINISHED PRODUCT : **For Persons administering the Product:** Keep all medicines away from children & pets; Children are particularly at risk from product and may prove harmful. Cats and certain breeds of Dogs can be overly susceptible to IVERMECTIN Toxicity therefore access & exposure to this product should be restricted. In all cases of accidental exposure through ingestion, contact medical physician immediately. Avoid contact with Skin & Eyes.

SECTION 7.2 : **CONDITIONS FOR SAFE STORAGE including incompatibilities;** Keep all medicines stored away from children, pets and animals; Finished Product does not require any special storage conditions though it is recommended to store securely, under 30°C, dry, & well ventilated area. Avoid storing in direct sunlight.

SECTION 7.3 : **SPECIFIC END USE(s); Use ONLY as detailed in Section 1.2.**

SECTION 8 : EXPOSURE CONTROLS/ PERSONAL PROTECTION.

SECTION 8.1 : **EXPOSURE CONTROLS:** None specified; No existing Data regarding OEL for finished product; Appropriate engineering controls should be in place where individuals are exposed to dust, vapours; mist; airborne particles; to ensure worker exposure are within/below any recommended limits.
ENVIRONMENTAL EXPOSURE CONTROLS: None specified; Emissions from ventilation or work processes should meet requirements of environmental protection legislation

SECTION 8.2 : **CONTROL PARAMETERS;** Ensure good ventilation and/or exhaust measures within the workplace;
List of PPE Is as follows: Finished Product itself requires no Respiratory Protection under Normal Conditions of Use and a well ventilated environment. A (minimum) P3 Grade Mask/ FFP3 Grade Mask (EN 143) in enclosed areas recommended especially if working with bulk volumes and as a back-up to engineering controls. Gloves are required (EN 374) when handling bulk product for extended periods, wash hands thoroughly after handling product. Eye protection normally required when handling the finished product, protective eyewear (EN 166) is recommended when working with large or bulk volumes where the incidence of exposure is increased.

Respiratory Protection	Eye Protection	Hand Protection	General Protection
			
Quarter Mask Grade P3 (Type A) Grade as per EN143	Safety Glasses Grade as per EN166	Protective Gloves Grade as per EN374	General Protective Garb and Safety Footwear appropriate to task

SECTION 9 : PHYSICAL & CHEMICAL PROPERTIES.

SECTION 9.1 : INFORMATION ON BASIC PHYSICAL & CHEMICAL PROPERTIES

	ACTIVE PHARMACEUTICAL	FINISHED PRODUCT
APPEARANCE: Form/Colour	White/Off-White Powder	Clear, Colourless to Pale Yellow Liquid
Odour	Mild Odour	Characteristic Alcoholic Scent
Odour Threshold	Not Available	Not Available
pH	Not Available	Not Available
Melting/Freezing Point	Melting : 155-157°C	Not Available
Boiling Point (Range)	Not Available	Not Available
Flash Point †	Not Available	24.5 °C by closed cup †
Evaporation Rate	Not Available	Not Available
Flammability	Not Available	Not Available
Upper/Lower Explosive Limits	Not listed as Explosive Hazard	Not Available
Vapour Pressure	Not Available	Not Available
Vapour Density	Not Available	Not Available
Relative Density	Not Available	Not Available
Solubility	Soluble in Methanol/ DCM: Insol: Water	Not Available
Partition Coefficient n-octanol/water	Not Available	Not Available
Auto-Ignition Temperature	Not Available	Not Available
Decomposition Temperature	Not Available	Not Available
Viscosity	Not Available	Not Available
Explosive properties	Not Available	Not Available
Oxidising Properties	Not Available	Not Available

SECTION 9.2 : OTHER INFORMATION; No other information available; Refer to Section 10

SECTION 10 : STABILITY & REACTIVITY DATA.

SECTION 10.1	: REACTIVITY	: Considered Stable
SECTION 10.2	: CHEMICAL STABILITY	: Stable under Normal Conditions
SECTION 10.3	: POSSIBILITY OF HAZARDOUS REACTIONS	: None Listed or Known
SECTION 10.4	: CONDITIONS TO AVOID	: No Specific Data (Refer to Section 7.2) Avoid Extremes of Light & Heat
SECTION 10.5	: INCOMPATIBLE MATERIALS	: Strong Oxidising Agents/Strong Acids/Strong Bases, Ammonia, Peroxides
SECTION 10.6	: HAZARDOUS DECOMPOSITION PRODUCTS	: Normal Conditions NONE Known: Refer to Section 5 (fire conditions)

SECTION 11 : TOXICOLOGICAL INFORMATION.

SECTION 11.1 : INFORMATION ON TOXICOLOGICAL EFFECTS

11.1.1 : Acute Toxicity

Ingredient	LD50	Species	Result
IVERMECTIN	Oral	Rat	2.0 to 50.0 mg/kg
		Mouse	25.00 mg/kg
		Dog	80.00 mg/kg
		Monkey	>24.00 mg/kg
ISOPROPANOL	Dermal	Rabbit	406.00 mg/kg
	Oral	Rat	5840.00mg/kg
	Inhalation	Rat (6Hr-Vapour)	>25.00 mg/kg
	Dermal	Rabbit	13,900.00 mg/kg

Supplementary Information: The information provided in this Table is for individual components for which Acute Toxicity Data is available at 100% concentration of that specific ingredient. Each component listed above is present in the Finished Product at the concentrations listed in SECTION 3.2. The European Medicines Agency (EMA) has stated that IVERMECTIN has displayed interspecies differences in toxicity. This is clearly evident in the LD50 Result values provided as information (above). The EMA has also stated that the DOG species data is considered to be the most conservative animal data. Using this data, the ATE for the Finished Product is estimated as 16,000mg/kg and accordingly, classification of the Finished Product is based on the Primary Hazard of ISOPROPANOL present at (approximately) 80% of the final concentration of Finished Product. Ingredients not listed in Section 3.2 are classified as non-hazardous according to Regulation EC 1272/2008 (as stated).

11.1.2	: Skin Irritation/Corrosion Data	: No Available Data for Finished Product: Ingredients May Cause Skin Irritation.
11.1.3	: Eye Irritation/Damage Data	: No Available Data for Finished Product: May Cause Eye Irritation. : <i>Note: Isopropanol classified as causing Eye Irritation</i>
11.1.4	: Respiratory &/or Skin Sensitisation Data	: No Available Data for Finished Product: NOT CLASSIFIED
11.1.5	: Germ Cell Mutagenicity	: Finished Product Not Classified. Contains no ingredient classified as Mutagenic
11.1.6	: Carcinogenicity	: Finished Product Not Classified. Contains no ingredient classified as Carcinogenic
11.1.7	: Reproductive Toxicity	: Finished Product Not Classified. <i>Note: IVERMECTIN classified as Reproductive Hazard Cat 2 -Positive in certain animal studies. Finished Product is not classified in this regard as the Final Concentration of IVERMECTIN within the Finished Product is below 1.0%</i>
11.1.8	: STOT- Single Exposure	: No Available Data for Finished Product. May Cause Drowsiness (Isopropanol)
11.1.9	: STOT- Repeated Exposure	: No Available Data for Finished Product. NOT CLASSIFIED
11.1.10	: Aspiration Hazard	: No Available Data for Finished Product. NOT CLASSIFIED

SECTION 12 : ECOLOGICAL INFORMATION.

SECTION 12.1 : TOXICITY : No Available Data for Finished Product:

Ingredient	LC50	Species	Result
IVERMECTIN	Fish	Trout	3.0 µg/L
		Bluegill Sun Fish	4.8 µg/L
	Crustacean	Water Flea	0.025 µg/L
ISOPROPANOL	Fish	Fathead minnow	9640.00 mg/L
	Crustacean	Water Flea	9714 mg/L

SECTION 12.2	: PERSISTENCE AND DEGRADABILITY	: No Available Data
SECTION 12.3	: BIOACCUMULATIVE POTENTIAL	: No Available Data
SECTION 12.4	: MOBILITY IN SOIL	: No Available Data
SECTION 12.5	: RESULTS OF PBT & vPvB ASSESSMENT	: No Available Data
SECTION 12.6	: OTHER ADVERSE EFFECTS	: No Available Data

SECTION 13 : DISPOSAL CONSIDERATIONS.

SECTION 13.1 : **WASTE TREATMENT METHODS;** It is recommended that the product be considered hazardous waste and disposed of in accordance with Local Authority Requirements & Regulations. Waste Products should not be disposed of untreated to drain.

SECTION 14 : TRANSPORT INFORMATION.

Please Note: Section 14 applies to the Finished Product

SECTION 14.1	: UN NUMBER †	: UN1993
SECTION 14.2	: UN PROPER SHIPPING NAME †	: Flammable Liquid, n.o.s. (contains Isopropanol)
SECTION 14.3	: TRANSPORT HAZARD CLASS (ES) †	: 3
SECTION 14.4	: PACKING GROUP †	: III
SECTION 14.5	: ENVIRONMENTAL HAZARDS	: No (Refer to Section 12)
SECTION 14.6	: SPECIAL PRECAUTIONS FOR USER	: No Data
SECTION 14.7	: TRANSPORT IN BULK	: Not Applicable

SECTION 15 : OTHER REGULATORY INFORMATION.

SECTION 15.1 : **SAFETY, HEALTH & ENVIRONMENTAL REGULATIONS/ LEGISLATION**
(Specific for the substance/mixture) : Data Not Available

SECTION 15.2 : **CHEMICAL SAFETY ASSESSMENT** : Data Not Available

SECTION 16 : OTHER INFORMATION.

Document History : **Version 1 (Created 16-May-2016): Version 2 (Updated 14-November-2016)**

Revised Sections :

- ‡ Section 2.1 Update to Classification of Substance/Mixture
- ‡ Section 2.2 Update to Label Elements: **Note H & P Statements are not affected by the update.**
- ‡ Section 9.1 Update to Information on Basic Physical & Chemical Properties (of Finished Product-Flash Point by c.c.)
- ‡ Section 14.1 Update to UN Number
- ‡ Section 14.2 Update to Proper Shipping Name
- ‡ Section 14.3 Update to Hazard Transport Class
- ‡ Section 14.4 Update to Packing Group

Prepared by : Materials Safety Data Officer, Chanelle Pharmaceuticals Ltd.

Abbreviations Legend : Listed in alphabetical order.

• ADR : "Accord-Dangereuses-Route" Dangerous Goods by Road; European Agree	• IBC : Intermediate Bulk Container
• ATE : Acute Toxicity Estimate	• IMDG : International Maritime code for Dangerous Goods
• API : Active Pharmaceutical Ingredient	• LCSO : Lethal Concentration 50 %
• BCF : Bio-concentration Factor	• LD50 : Lethal Dose, 50%
• CAS : Chemical Abstracts Service	• LQ : Limited Quantity (stated in ADR-LQ)
• EINECS : European Inventory of Existing Chemical Substances	• MARPOL 73/78 : International Convention for the Prevention of Pollution from Ships
• EmS : Emergency Schedule (Code of Emergency Labelling)	• NOEC : No Observable Effect Concentration
• GHS : Globally Harmonised System (of Classification and Labelling of Chemicals)	• N.O.S : "Not Otherwise Specified"
• IATA : International Air Transport Association	• UN : United Nations

P Statements: Listed from Section 2.2

PRECAUTIONARY STATEMENTS			
Prevention	Response	Storage	Disposal
P210 – Keep away from heat/sparks/open flames/hot surfaces. — No smoking.	P303 + P361 + P353 – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.	P403 + P235 – Store in a well-ventilated place. Keep cool.	P501 – Dispose of contents/container to details listed in Section 13.1
P233 – Keep container tightly closed.	P304 + P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.	P405-Store Locked Up	
P240 – Ground/bond container and receiving equipment.	P370 + P378 – In case of fire: Use (Suitable media-section 5.1) for extinction.		
P241 – Use explosion-proof electrical/ventilating/lighting/.../equipment.	P305+P351+P338- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.		
P242 – Use only non-sparking tools.	P337+P313-if eye irritation persists: Get Medical advice /attention		
P243 – Take precautionary measures against static discharge.	P312- Call a POISON CENTER or doctor/physician if you feel unwell.		
P261- Avoid Breathing Mist/Vapours			
P264-Wash [Hands] thoroughly after handling			
P270-Do not eat drink or smoke when using this product			
P271-Use only outdoors or in a well-ventilated area			
P280 – Wear protective gloves/protective clothing/eye protection/face protection.			

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Prepared by: 
Material Safety Data Officer

Date of Approval: 14-11-2016

END OF SDS