



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

Printing date 05/25/2000

Reviewed on 05/25/2000

**1 Identification of substance**

- **Product details**
- **Trade name:** Ivermectin  
HEARTGARD for Cats
- **Product number:** 38055, 38165, 19165I, 19055I
- **Manufacturer/Supplier:**  
Merial Limited  
2100 Ronson Road  
Iselin, NJ 08830-3077
- **Information department:** MSDS Coordinator
- **Emergency information:**  
Spill Information: CHEMTREC® 1-800-424-9300  
CHEMTREC® International 1+703-527-3887  
Reverse charges.  
Health Information: 1-888-637-4251, Option 5

**2 Composition/Data on components**

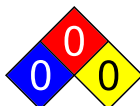
- **Chemical characterization**
- **Description:** Mixture of the substances listed below.

**Components:**

Non hazardous inert ingredients	95.9919 %
57-55-6 Propylene Glycol	4.0 %
70288-86-7 Ivermectin Comp. Bla (C48H74O1) Comp. Blb (C47H72O14) T, N; R 20/21-25-50	0.008 %

**3 Hazards identification**

- **Hazard description:** Not applicable.
- **Information pertaining to particular dangers for man and environment:**
  - Not applicable.
- **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 = 0  
Fire = 0  
Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**

HEALTH	0
FIRE	0
REACTIVITY	0

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**4 First aid measures**

- **General information:** No special measures required.
- **After inhalation:** Not an expected route of entry.
- **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 persist, consult a doctor.
- **After swallowing:** Immediately call a doctor.
- **Information for doctor:**
- **The following symptoms may occur:**  
Overexposure to ivermectin may cause drowsiness, depressed motor activity, slowed breathing, dilation of the pupils, tremors, vomiting, anorexia and incoordination.

**5 Fire fighting measures**

- **Suitable extinguishing agents:**  
Use water spray or all purpose dry chemical.
- **Protective equipment:**  
Fire fighters should wear self-contained breathing apparatus and full protective equipment.

**6 Accidental release measures**

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:**  
Do not allow product to reach sewage system or any water course.
- **Measures for cleaning/collecting:** Pick up mechanically.
- **Additional information:** No dangerous substances are released.

**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.
- **Information about protection against explosions and fires:**  
No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store only in the original container.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Store in a cool, dry, well ventilated place.
- **Recommended storage temperature:** 15°C-30°C

**8 Exposure controls and personal protection**

Components with limit values that require monitoring at the workplace:  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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

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- **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.
- **Breathing equipment:**  
 Not required for this formulation when used in accordance with directions.
- **Protection of hands:** Rubber gloves in case of overexposure.
- **Eye protection:** Not required under normal conditions of use.

### 9 Physical and chemical properties

· <b>Form:</b> Solid			
· <b>Color:</b> Brown			
· <b>Odor:</b> Meaty aroma			
	<u>Value/Range</u>	<u>Unit</u>	<u>Method</u>
· <b>Change in condition</b>			
· <b>Melting point/Melting range:</b>	Undetermined.		
· <b>Boiling point/Boiling range:</b>	Undetermined.		
· <b>Flash point:</b>	Not applicable.		
· <b>Auto igniting:</b>	Product is not self-igniting.		
· <b>Danger of explosion:</b> Product does not present an explosion hazard.			
· <b>Specific gravity:</b>	Not determined.		
· <b>Solubility in / Miscibility with</b>			
· <b>Water:</b>	Insoluble in water.		
· <b>pH-value:</b>	4.0-6.0		

### 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:** Carbon monoxide and carbon dioxide

### 11 Toxicological information

- **Acute toxicity:**  
LD/LC50 values that are relevant for classification:  
 70288-86-7 Ivermectin Comp. Bla (C48H74O1)  
                   Comp. Blb (C47H72O14)  
 Oral: LD50: ~80 mg/kg (dog)  
           LD50: 25 mg/kg (mouse)  
           LD50: 50 mg/kg (rat)  
 Dermal: LD50: 406 mg/kg (rabbit)  
           LD50: >660 mg/kg (rat)  
 Inhalative: LC50/4 h: 5.11 mg/l (rat)
- **Primary irritant effect:**

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- on the skin: No irritating effect known.
- on the eye: No irritating effect known.
- Sensitization: No sensitizing effects known.
- **Additional toxicological information:**  
 The product is not subject to classification according to internally approved calculation methods for preparations:  
 When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

**12 Ecological information**

- **Ecotoxicological 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:**  
 Smaller quantities can be disposed of with household waste.
- **Uncleaned packagings:**
- **Recommendation:**  
 Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

**14 Transport information**

- **DOT regulations:**
- **Hazard class:** -
- **Land transport ADR/RID (cross-border):**
- **ADR/RID class:** -
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

**15 Regulations**

- **Sara**  
Section 355 (extremely hazardous substances):  
 None of the ingredients are listed.  
Section 313 (Specific toxic chemical listings):  
 None of the ingredients are listed.  
TSCA (Toxic Substances Control Act):  
 57-55-6 Propylene Glycol

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· **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:**

Observe the general safety regulations when handling chemicals.  
The product is not subject to identification regulations according to directives on hazardous materials.

· **Safety phrases:**

29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point

· **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.

· **Department issuing MSDS:** MSDS Coordinator

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

USA