



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-30 PLUS
- Product number: 37811-37819, 19076I, 19086I, 19066I
- Manufacturer/Supplier:
Merial Limited
2100 Ronson Road
Iselin, NJ 08830-3077
- 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 | ~88.0 % |
| 15686-83-6 pyrantel T; R 25 | 3.0-7.94 % |
| 57-55-6 Propylene Glycol | 4.0 % |
| 70288-86-7 Ivermectin Comp. Bla (C48H74O1) Comp. Blb (C47H72O14) T, N; R 20/21-25-50 | 0.0034 % |

3 Hazards identification

- Hazard description:



Xn Harmful

- Information pertaining to particular dangers for man and environment:
R 22 Harmful if swallowed.
- 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

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· **HMIS-ratings (scale 0 - 4)**

| | |
|------------|---|
| HEALTH | 0 |
| FIRE | 0 |
| REACTIVITY | 0 |

4 First aid measures

- **After inhalation:** Not an expected route of entry.
- **After skin contact:**
No skin irritation is expected with this formulation.
- **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:**
Prevent seepage into sewage system, workpits and cellars.
- **Measures for cleaning/collecting:**
Vacuum, shovel, sweep-up all spilled materials and place in sealed container for proper disposal IAW Section XIII.

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

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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.

· **Personal protective equipment:**· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages.

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**· **Form:** Solid· **Color:** Brown· **Odor:** Meaty aroma

·

· **Change in condition**· **Melting point/Melting range:**

| | <u>Value/Range</u> | <u>Unit</u> | <u>Method</u> |
|---|---|-------------|---------------|
| · Melting point/Melting range: | Undetermined. | | |
| · Boiling point/Boiling range: | Undetermined. | | |
| · Flash point: | Not applicable. | | |
| · Auto igniting: | Product is not self-igniting. | | |
| · Danger of explosion: | Product does not present an explosion hazard. | | |
| · Specific gravity: | Not determined. | | |
| · Solubility in / Miscibility with | | | |
| · Water: | Insoluble in water. | | |
| · pH-value: | at 20 ° C | 4.0-6.0 | |

· **Boiling point/Boiling range:**· **Flash point:**· **Auto igniting:**· **Danger of explosion:**

Product does not present an explosion hazard.

· **Specific gravity:**· **Solubility in / Miscibility with**· **Water:**· **pH-value:**

at 20 ° C

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

Nitrogen oxides

Sulfur oxides (SOx)

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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:**· **on the skin:** No irritating effect known.· **on the eye:** No irritating effect known.· **Sensitization:** No sensitizing effects known.· **Additional toxicological information:**

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

12 Ecological information· **Ecotoxicological effects:****Acquatic toxicity:**

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

LC50 / 48 hrs: 0.025 ppt (daphnia magna)

LC50/96 hours: .3 ug/l (Rainbow Trout)

· **General notes:** Not known to be hazardous to water.**13 Disposal considerations**· **Product:**· **Recommendation:** Incinerate at an EPA approved incinerator facility.· **Uncleaned packagings:**· **Recommendation:**

Disposal must be made according to official regulations.

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

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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

· **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:** Xn Harmful· **Hazard-determining components of labelling:** pyrantel· **Risk phrases:** 22 Harmful if swallowed.· **Safety phrases:**

2 Keep out of the reach of children.

13 Keep away from food, drink and animal feedingstuffs.

29 Do not empty into drains.

36 Wear suitable protective clothing.

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

52 Not recommended for interior use on large surface areas.

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

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