# **SAFETY DATA SHEETS**

# This SDS packet was issued with item: 078464753

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

078344520 078344538 078435871 078435889 078713682

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).

078784503 078784511



*Printing date 01/16/2005* 

Reviewed on 01/16/2005

Product of	letails	
Trade na	me: Ivermectin EQVALAN Liquid for Horses	
Item nun	<b>iber:</b> 25877	
Manufac	turer/Supplier:	
Merial Li	mited	
3239 Sate	ellite Blvd.	
Duluth, C	Ga. 30096-4640	
1-888-M	ERIAL 1 (1-888-637-4251)	
Emergen	cy information:	
	cy Information: CHEMTREC International 1 + 703-527-3887	
Collect co	alls accepted	
Spill Info		
1 0	CHEMTREC® 1-800-424-9300	
	CHEMTREC® International 1+703-527-3887	
	International calls 011+703-527-3887	
	Reverse charges.	

## 2 Composition/Data on components

 $\cdot$  Chemical characterization

• Description: Mixture: consisting of the following components.

· Components

· Compone		
	Non hazardous substance	76.0%
	Propylene Glycol	20.0%
100-51-6	benzyl alcohol	3.0%
	Ivermectin is a mixture of 90% or more of 5-0-demethyl-22,23-dihydroavermectin Ala (component H2Bla) and 10% or less of 5-0-demethyl-25-de(1-methylpropyl)-22,23-dihydro-25-(1-methylethyl)avermectin Ala (component H2Blb). $\boxed{\blacksquare}$ T+, $\boxed{\blacksquare}$ N; R 28-36-50	1.0%

# 3 Hazards identification

• Hazard description:



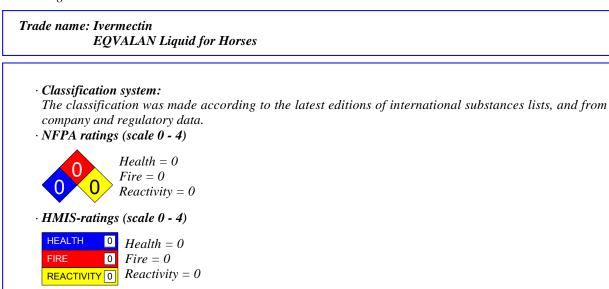
T Toxic

• Information pertaining to particular dangers for man and environment: R 25 Toxic if swallowed. Page 1/7

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#### 4 First aid measures

- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: Not an expected route of entry.
- 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 several minutes under running water. Then consult a doctor.
- · After swallowing: Immediately call a doctor.
- · After self injection
- · 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.

Direct contact of the solution with eyes can cause irritation. The oral toxicity of this formulation is unknown.

Benzyl alcohol may be irritating to the upper respiratory tract.

#### **5** Fire fighting measures

- · Suitable extinguishing agents: Use water spray or all purpose dry chemical.
- · Special hazards caused by the material, its products of combustion or resulting gases:
- If exposed to fire, toxic gases including CO and CO2 may be generated.
- 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:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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Dispose of contaminated material as waste according to 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:
- Keep receptacle tightly sealed.
- Store in a cool, dry, well ventilated place.
- · **Recommended storage temperature:**  $< 30^{\circ}C (86^{\circ}F)$

#### 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.

#### · 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 and skin. Do not eat, drink, smoke or inhale. Do not store food in the working area.

Breathing equipment:

An approved and properly fitted half-faced negative pressure, organic vapor respirator or respirator of equal or greater protection is recommended in handling this chemical. • Protection of hands:



Rubber or other impervious gloves

• Eye protection: Safety goggles.

• **Body protection:** Impervious protective clothing

#### 9 Physical and chemical properties

· General Information

Form:

Liquid

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ide name: Ivermectin EQVALAN Liquid for Horses		
Color:	Clear	
Odor:	Odorless	
· Change in condition		
Melting point/Melting range:		
Boiling point/Boiling range:	100°C (212°F)	
· Flash point:	101°C (214°F)	
· Ignition temperature:	371.0°C (700°F)	
· Auto igniting:	Product is not self-igniting.	
• Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits:		
Lower:	2.6 Vol %	
Upper:	12.6 Vol %	
· Vapor pressure at $20^{\circ}C(68^{\circ}F)$ :	23.0 hPa (17 mm Hg)	
· Specific gravity:	Not determined.	
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.	

## **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: No dangerous decomposition products known.

## **11 Toxicological information**

• Acute toxicity:

· LD/LC50 values that are relevant for classification:
100-51-6 benzyl alcohol

OralLD501230 mg/kg (rat)DermalLD502000 mg/kg (rabbit)

Inhalative LD 50 1000ppm (rat)

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Oral	LD50	24 mg/kg (Rhesus monkey)	
		25 mg/kg (mouse)	
		50 mg/kg (rat)	
		80 mg/kg (dog)	
Dermal	LD50	50 mg/kg (rat) 80 mg/kg (dog) 406 mg/kg (rabbit)	

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

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#### Trade name: Ivermectin EQVALAN Liquid for Horses

## >660 mg/kg (rat)

Inhalative LD 50 >5.11 mg/l (rat)

- 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:

Toxic

#### **12** Ecological information

· Ecotoxological effects:

· Remark:

*Ivermectin:* LC 50 (Daphnia Magna) EPA Classification=25ppt. Very highly toxic to aquatic organisms.

· General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow any volumes of product to reach ground water, water source or sewage system. Danger to drinking water if even small quantities leak into the ground.

#### **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:
- · 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: -

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•	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):
	7732-18-5 water, distilled, conductivity or of similar purity
	57-55-6 Propylene Glycol
	100-51-6 benzyl alcohol
	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.
,	Carcinogenesis potential categories
•	EPA (Environmental Protection Agency)
	None of the ingredients is listed.
	IARC (International Agency for Research on Cancer)
	None of the ingredients is listed.
	NTP (National Toxicology Program)
	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.
	OSHA-Ca (Occupational Safety & Health Administration)
	None of the ingredients is listed.
	<b>Product related hazard informations:</b> The product has been classified and marked in accordance with directives on hazardous materials.
	Hazard symbols: T Toxic
	Hazard-determining components of labelling: Ivermectin is a mixture of 90% or more of 5-0-demethyl-22,23-dihydroavermectin Ala (compone H2Bla) and 10% or less of 5-0-demethyl-25-de(1-methylpropyl)-22,23-dihydro-25-(1-methylethy avermectin Ala (component H2Blb).

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#### Trade name: Ivermectin EQVALAN Liquid for Horses

#### · Safety phrases:

- 1/2 Keep locked up and out of the reach of children.
- 13 Keep away from food, drink and animal feedingstuffs.
- 20 When using do not eat or drink.
- 28 After contact with skin, wash immediately with plenty of water
- 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point
- 36/39 Wear suitable protective clothing and eye/face protection.
- 43 In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.
- 45 In case of accident or if you feel unwell, seek medical advice immediately.
- 52 Not recommended for interior use on large surface areas.

• Water hazard class: Water hazard class 2 (Self-assessment): 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.

· Contact: MSDS Coordinator, msds@merial.com