Material Safety Data Sheet

Quest

WW MSDS No. 42-7442

Section 1. Product and Company Identification

Manufactured/ Supplied by	Fort Dodge Animal Health 800 5th Street NW P.O. Box 518 Fort Dodge, IA 50501 Phone: 515-955-4600 Fax: 515-955-9149
Product Trade Name	Quest
Common Name	Not applicable.
Synonyms	Moxidectin Equine Gel (2.0%).
Chemical Formula	NA
Chemical Family	Veterinary pharmaceutical. Anthelmintics.
Material Uses	Pharmaceutical industry: Veterinary Pharmaceutical
Packaging	Prefilled syringe/tube.
Formula Type	Oral Gel

Date of Preparation	**4 April 2002**
Product No.	42-7442
Formula No.	Not available.
CAS No.	Mixture.
U.N. No.	Not applicable.
EINECS No.	Not applicable.
In Case of Emergency	515-955-6033

Section 2. Composition - Information on Ingredients

Name of Ingredients	CAS No.	Conc.	EU Symbol	R Phrase
1) Moxidectin 2) Benzyl Alcohol 3) Inert ingredients considered non-hazardous	113507-06-5 100-51-6	2% w/v <10% Balance	T Xn	R25 R20/22

Section 3. Hazards Identification - Summary of Primary Effects and Critical Hazards

Acute Health Effects	Significant adverse health effects are associated with chronic high level exposures.
Chronic Health Effects	**MUTAGENIC EFFECTS**: Mutagenic for mammalians [Propylene Glycol]. Mutagenic for mammalians Mutagenic for mammalians [Benzyl Alcohol]. Mutagenic for mammalians Potential organ systems effected are: Central Nervous System (CNS), Kidneys. Adverse effects could include: acidosisVery hazardous in case of skin contact (sensitizer).
Environmental Hazards	Highly toxic to - Fish Aquatic Organisms

Section 4. First Aid Measures - (by medical responders using "Universal Precautions")

Eye Contact	Flush eyes with plenty of water for 15 minutes, occasionally lifting upper and lower eyelids. (Check person for contact lenses and remove if present.) If redness or irritation persists have eyes examined by doctor immediately.
Skin Contact	Flush skin with plenty of soap and water for at least 15 minutes (remove all contaminated clothing and shoes). Get medical attention if symptoms persist.
Inhalation	No specific treatment, treat symptomaticaly. If breathing is difficult give oxygen, if respiratory arrest occurs provide artificial respiration and seek immediate medical assistance.
Ingestion	No specific treatment, treat symptomatically. Call medical doctor or poison control center immediately if large quantities are ingested.
Notes to Medical Doctor	Direct treatment at control of symptoms.

Continued on Next Page

Section 5. Fire-Fighting Measures

Extinguishing Media and Instructions	Follow your company's procedures. Use an extinguishing agent suitable for the surrounding class of fire.
Special Exposure Hazards	In certain Fire conditions, traces of other toxic gases may be emitted.
Special Fire Fighting Protective Equipment	Qualified persons wearing full fire-fighting suits and approved/certified self-contained breathing apparatus.

Section 6. Accidental Release Measures

Small Spill Guidelines	Follow your company's spill procedures. Keep people away from spill. Put on appropriate personal protective equipment (see Section 8). Use a tool to scoop up solid or absorbed material and put into appropriate labeled waste container.
Large Spill Guidelines	Initiate company's spill response procedures immediately. Keep people out of area. Put on appropriate personal protective equipment (see Section 8).
Environmental Precautions	No special measures are typically indicated.

Section 7. Handling and Storage

Handling (ventilation and fire prevention)	Avoid contact with eyes, skin, and clothing. Avoid generating or breathing product aerosol. Wash after handling.
Storage (conditions and limitations)	Store tightly closed in original container. Keep containers in a well ventilated, secure location.

Section 8. Exposure Controls and Personal Protection - (normal and intended use)

Exposure Guidelines

Component		REG. Limit	OSHA (PEL)	ACGIH (TLV®)	Company Guideline
1) Moxidectin	TWA:				0.05 mg/m^3
2) Benzyl Alcohol	TWA:	44 mg/m^3			

Engineering Design and Control Measures	General ventilation is typically sufficient to keep airborne levels below established values. Provide eye wash and quick drench shower close to work station. Clean, appropriately launder, or dispose of all potentially contaminated work clothing, foot wear, and protective equipment after use.
Protective Clothing	
Eyes	Safety glasses, goggles or face shield where product aerosol or splash potential exists.
Skin	Lab coat.
Hands	Gloves, Chemical resistant.
Respiratory	Respirator selection must be based on anticipated exposure levels, product hazards, and the safe working limits of the selected respirator. A respirator is not needed under normal and intended conditions of product use.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid. (Emulsion)	**Odor**	Aromatic. (Slight.)
Molecular Weight	Mixture.	**Color**	Not available.
Boiling Point	Not available.	**pH**	6.5 to 7 [Neutral.]
Melting/Freezing Point	Weighted average: -17.75°C (0.1°F)		
Density/Bulk Density	1.057 (Water = 1)		

Continued on Next Page

Vapor Pressure	Weighted average: 11.94 mm of Hg (@ 20°C)
Vapor Density	Weighted average: 2.8 (Air = 1)
Viscosity	3,000,000 cps
Partition Coefficient	Not available.
Solubility	Easily soluble in cold water, hot water.
Flash Point	Not applicable
Autoignition Point	Not applicable
Explosion Limits	Not applicable
Dust Explosivity	Not applicable.

Section 10. Stability and Reactivity

Conditions to Avoid and Incompatibility	Highly reactive with oxidizing agents. Reactive with acids, alkalis. Slightly reactive to reactive with metals.
Decomposition Products	These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2...).

Section 11. Toxicological Information

Acute Effects

Component	Test	Result	Route	Species
1) Quest	LD50 LD50	2576 mg/kg >4000 mg/kg	oral dermal	Rat Rat

Eye Contact	Moderately irritating (USA). Irritating (EU).
Skin Contact	Slightly irritating (USA). Irritating (EU).
Inhalation	Not available.
Ingestion	Harmful if swallowed.

Chronic Effects

Target Organs	Potential organ systems affected are: Central Nervous System (CNS), Kidneys.
Adverse Effects Statements	Adverse effects could include: acidosis
Sensitization	Not available.
Carcinogenic Effects	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.
Mutagenic Effects	Mutagenic for mammalians [Propylene Glycol]. Mutagenic for mammalians [Benzyl Alcohol].
Teratogenic Effects	No known human teratogenic effect
Reproductive Effects	No evidence of human reproductive effects.
Other Effects	Not available.

Continued on Next Page

Section 12. Ecological Information

Environmental Fate May cause long-term adverse effects in the aquatic environment.

Environmental Hazards Highly toxic to - Fish Aquatic Organisms

Ecotoxicity

Component	Species	Period	Result
1) Benzyl Alcohol	EC50 (daphnia)	48 hour(s)	360 mg/l
	Fish	96 hour(s)	460 mg/l
	Bluegill	96 hour(s)	10 mg/l

Other Not available.

Section 13. Disposal Considerations

Waste Handling and Disposal Avoid disposal, make attempts to use product completely in accordance with intended use. Incinerate unwanted products and waste materials.

Note: The waste generator must be informed of and follow all applicable rules and regulations for the handling and disposal of waste.

Section 14. Transport Information

Proper Shipping Name, Primary Class, UNNA Number, Pakaging Group Not controlled.

ADR/RID Classification (Road and Rail Transport) Not controlled.

ADNR Classification (Inland Waterways) Not controlled.

IMO/IMDG Class (Maritime Transport) Not controlled.

ICAO/IATA (Air Transport) Not controlled.

CEFIC Tremcard Not available.

HI Kemler Not available.

U.S.A. DOT Class Not controlled.

RQ Not applicable.

NFPA

Flammability

Health

Reactivity

Specific hazard

Packaging Intructions Not available.

Section 15. Regulatory Information and Warning Labels

(R) Risk Phrases R50- Very toxic to aquatic organisms.

[N] Very toxic to aquatic organisms.

(S) Safety Phrases Not available

NOTE: This product has been classified in accordance with applicable country-specific regulations.

Continued on Next Page

Section 16. Other Key Information

Other Considerations See product label and package insert for additional information.

4 April 2002 **Responsible for MSDS:** Global Engineering, Environmental and Safety

Fort Dodge Animal Health -- within American Home Products Corporation

Notice to Reader

**** This symbol indicates information which has changed from the previous MSDS.***

The information provided in this MSDS is based on current knowledge, however, this does not constitute a warranty by the Company for that information. The product user is responsible for the appropriate and intended handling, use, and disposal of this product in accordance with label or package precautions and this information. All materials may present unknown hazards and should be used with caution.

MSDSs available in multiple languages