



MATERIAL SAFETY DATA SHEET

1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: Feline Oral Meloxicam
Product No.: No data available
GHS Product Identifier: Not applicable
Synonyms: No data available

Molecular Formula: Mixture, not applicable
Molecular Weight: Mixture, not applicable
CAS Number: Mixture, not applicable
Chemical Family: Oxicam class of non-steroidal anti-inflammatory drugs (NSAID)

Manufacturer:
Boehringer Ingelheim Vetmedica, Inc.
2621 North Belt Hwy
St. Joseph, MO 64506-2002

Transportation Emergency: For Chemical
Emergency Spill, Leak, Fire, Exposure, or
Accident Call CHEMTREC Day or Night

Within USA and Canada: 1-800-424-9300
Outside USA and Canada: +1 703-527-3887
(collect calls accepted)

Medical Emergency (24HR): (866) 638-2226
Non-Emergency Telephone: (800) 821-7467

Intended Use: Research and development
veterinary medicine

2 HAZARDS IDENTIFICATION

Emergency Overview

Physical State: Liquid
Color: No data available
Odor: Slight, alcohol



DANGER!
Combustible liquid.
May be harmful if swallowed.

Causes eye irritation.**Causes damage to organs (Kidneys) through prolonged or repeated exposure by ingestion.****FOR RESEARCH AND DEVELOPMENT USE ONLY.****NOT FOR HUMAN USE.****Precautionary Statements:**

Keep away from heat/sparks/open flames/hot surfaces – No smoking.

Store in a well-ventilated place. Keep cool.

Keep at a temperature at or below 25° C.

Store out of direct sunlight. Protect from freezing.

Keep container closed.

In case of fire: Use foam, carbon dioxide, dry powder or water spray for extinction.

Do not breathe mist or vapor.

Do not eat, drink or smoke when using this product.

Wear protective gloves and eye/face protection.

Wash thoroughly after handling.

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

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

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Dispose of contents and container in accordance with applicable local authority requirements.

Keep out of reach of children.

Potential Health Effects**Inhalation:** Not expected to be an inhalation hazard with prescribed use.**Eye Contact:** Causes eye irritation if exposed. Exposure may cause eye tearing, redness, and discomfort.**Skin Contact:** Prolonged or repeated contact may cause itching, redness, and rash in some individuals or animals.**Ingestion:** May be harmful if swallowed. Exposure may cause vomiting, nausea, diarrhea, renal injury or other systemic effects.**Chronic Health Effects:** Renal failure has been reported as an outcome of repeated oral dosing of cats.**Target Organ(s):** Eye, Kidneys**OSHA Regulatory Status:** Hazardous (exempt)**3 COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	EC No.	CAS- No.	Concentration	Classification	Notes
Glycerin	200-289-5	56-81-5	10 – 15%	----	----

Ethanol	200-578-6	64-17-5	1 – 5%	F, R11	----
Meloxicam	----	71125-38-7	0.35 mg/mL	----	----

Components not listed are not hazardous or are below reportable limits.

The full texts for all R-Phrases are displayed in Section 16.

4 FIRST AID MEASURES

General: Animals or persons developing anaphylactic (life-threatening) reactions, such as difficulty in breathing or unconsciousness, must receive immediate medical attention.

Inhalation: Move to fresh air. Treat symptomatically. Get medical attention if symptoms persist.

Eye Contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

Skin Contact: Wash with soap and water. If skin irritation or rash occurs, get medical attention. Wash contaminated clothing before reuse.

Ingestion: Call a physician or poison control center immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.

Note to Physician: For research and development use only. Not for human use.

5 FIRE-FIGHTING MEASURES

Extinguishing Media: Extinguish with water spray, dry chemical, carbon dioxide, foam

Unsuitable Extinguishing Media: None known

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing. Fight fire from a protected location. Use water spray to keep fire-exposed containers cool.

Unusual Fire & Explosion Hazards: Combustible liquid. Vapors may cause a fire if ignited.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate personal protective equipment (See Section 8).

Spill Cleanup Methods: STEPS TO BE TAKEN IF SIGNIFICANT QUANTITIES OF PRODUCT IS SPILLED: Eliminate all ignition sources. Absorb or cover with dry earth, sand or other non-combustible material. Place spillage in appropriate container for waste disposal. Wash contaminated clothing before use.

Environmental Precautions: Prevent runoff from entering drains, sewers or streams. Dike for later disposal.

7 HANDLING AND STORAGE

Handling: HANDLING SIGNIFICANT QUANTITIES OF LIQUID: Avoid breathing vapors. Avoid contact with eyes, skin or clothing. Do not swallow. Use adequate ventilation. Wash hand thoroughly after handling.

Storage: Keep only in the original container. Store at or below room temperature. Avoid prolonged exposure above 25°C (77°F). Store out of direct sunlight. Keep from freezing. Store away from foodstuffs.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

Chemical Name	Source	Type	Exposure Limits	Notes
Ethyl alcohol	ACGIH	STEL	1000 ppm	URT irritation
Ethyl alcohol	OSHA Z-1	PEL	1000 ppm	----
Glycerin, mist	ACGIH	TWA	10 mg/m ³	URT irritation
Glycerin mist, respirable fraction	OSHA Z-1	PEL	5 mg/m ³	----
Glycerin mist, total dust	OSHA Z-1	PEL	15 mg/m ³	----
Meloxicam	*BIEL	TWA	150 µg/m ³	----
Meloxicam	*BIEL	STEL (15 minutes)	600 µg/m ³	----
Meloxicam	*BIEL	STEL (1 hour)	300 µg/m ³	----

Where lower governmentally imposed exposure limits exist, such limits should take precedence.

*BIEL is the BI (Boehringer Ingelheim) Exposure Control Level.

Engineering Controls: Not generally required when handling vials or containers. Good ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Respiratory Protection: Not generally required when handling vials or containers. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA standard 63 FR 1152, January 8, 1998. Respirator type: NIOSH approved organic vapor respirator.

Europe: Wear appropriate personal protective equipment according to the Council Directive 89/686/EEC (4) and the appropriate CEN standards.

PERSONAL PROTECTIVE EQUIPMENT: Not generally required when handling containers. If containers are compromised or exposure to the mixture is likely wear:

Eye Protection: Wear safety glasses with side shields (or goggles).

Hand Protection: Wear suitable gloves.

Skin Protection: Wear lab coat, apron or appropriate clothing to prevent skin contact.

Hygiene Measures: Eye bath, washing facilities

9 PHYSICAL AND CHEMICAL PROPERTIES

Color: No data available

Odor: Slight, alcohol

Odor Threshold: No data available

Physical State: Liquid

pH: No data available

Melting Point: No data available

Freezing Point: No data available

Boiling Point: No data available

Flash Point: 62 - 93°C (estimated for Ethanol concentration)

Flammability Limit – Upper (%): No data available

Flammability Limit – Lower (%): No data available

Evaporation rate: No data available

Vapor Pressure: No data available

Vapor Density (Air=1): No data available

Viscosity: No data available

Specific Gravity: No data available

Solubility: Soluble

Partition Coefficient (n-Octanol/water): No data available

Autoignition Temperature: No data available

Decomposition Temperature: No data available

10 STABILITY AND REACTIVITY

Stability: Stable.

Conditions to Avoid: Heat, sparks, flame

Incompatible Materials: Strong oxidizing agents

Hazardous Decomposition Products: Carbon dioxide, carbon monoxide, nitrogen oxides, sulfur oxides

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

11	TOXICOLOGICAL INFORMATION
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Specified Substances**Acute Toxicity**

Chemical Name	Test Results
Glycerin	Administration into the eye (rabbit): 500 mg/24 h, Mild Irritant Administration onto the skin (rabbit): 500 mg/24 h, Mild Irritant Oral LD50 (rat): 12600 mg/kg Dermal LD50 (rabbit): >10000 mg/kg
Ethanol	Eye Irritation (rabbit): 500 mg/24 H – Moderate irritation Skin Irritation (rabbit): 20 mg/24H – Moderate irritation Oral LD50 (rat) : 7060 mg/kg Inhalation LC50 (rat): 5900 mg/m ³ /4H
Meloxicam	Oral LD50 (rat): 84 mg/kg

Chronic Health Effects: Renal failure has been reported as an outcome of repeated oral dosing of cats.

Listed Carcinogens:

Chemical Name	IARC	NTP	OSHA	ACGIH
Ethanol in alcoholic beverages	Group 1 – Carcinogenic to humans	NTP Known carcinogen	----	----
Ethanol	----	----	----	A3 – Confirmed animal carcinogen with unknown relevance to humans

12	ECOLOGICAL INFORMATION
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Ecotoxicity:**Specified Substances****Acute Toxicity**

Chemical Name	Test Results
Glycerin	LC50 (rainbow trout): 51,000 – 57,000 mg/l (96 hours)
Ethanol	LC50 (fathead minnow): 13,400 – 15,100 mg/l

Persistence and degradability: Expected to be readily biodegradable.

Mobility in soil: No data available.

Other adverse effects: Not expected to be harmful to the environment. An environmental hazard cannot be excluded when large quantities are spilled.

Germany WGK: Ethanol: ID 96: WGK 1 (slightly water-endangering); Glycerin: ID No: 116: WGK 1 (slightly water-endangering). Meloxicam: ID No: 7588: WGK 2 (water-endangering)

13 DISPOSAL CONSIDERATIONS

General Information: Dispose of in accordance with local, state, federal, national or international regulations.

Disposal Methods: Incinerate the material under controlled conditions in an approved incinerator. Do not empty into drains. Dispose of this material and its container in a safe way. Do not contaminate water, food, or feed by disposal.

RCRA Information: Not applicable

14 TRANSPORT INFORMATION

Non-Bulk DOT: Not Regulated

TDG: Not Regulated

ADR/RID: Not Regulated

IATA: Not Regulated

IMDG: Not Regulated

15 REGULATORY INFORMATION

Canadian Controlled Products Regulations: This product has been classified according to the hazard criteria of the Canadian Controlled Products Regulations, Section 33, and the MSDS contains all required information.

WHMIS Classification: B3, D2B

Inventory Status

This material is **not** listed on the following inventories: TSCA, DSL, AICS, EINECS, IECSC, ENCS, PICCS, KECI, and NZIoC. Therefore, it can only be used for TSCA exempt purposes such as R&D or veterinary use.

US Regulations

FEDERAL LAW RESTRICTS THIS DRUG TO USE BY OR ON ORDER OF LICENSED VETERINARIANS.

CERCLA Hazardous Substance List (40 CFR 302.4): None listed.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): None listed.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3): None listed.

SARA Title III**Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):** None listed.**Section 311/312 (40 CFR 370):**

<input checked="" type="checkbox"/> Acute (Immediate)	<input type="checkbox"/> Chronic (Delayed)	<input checked="" type="checkbox"/> Fire	<input type="checkbox"/> Reactive	<input type="checkbox"/> Pressure Generating
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Section 313 Toxic Release Inventory (40 CFR 372): None listed.**State Regulations****California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):** Ethyl alcohol in alcoholic beverages – California Prop 65 Carcinogen and Developmental Toxin**Massachusetts Right-To-Know List:** Ethanol; Glycerin mist**Minnesota Hazardous Substances List:** Ethanol; Glycerin mist**New Jersey Right-To-Know List:** Ethanol; Glycerin**Pennsylvania Right-To-Know List:** Ethanol; Glycerin mist**Rhode Island Right-To-Know List:** Ethanol; Glycerin mist**European Regulations****Austria MAK List (Annex I):** Ethanol**Denmark (Annex 3.6):** None listed.**Germany (Dangerous Substances Ordinance 2004, Annex III):** Ethanol**Norway (List of Dangerous Substance):** Ethanol**Sweden (Annex 3):** None listed.**Switzerland (Toxins List 1):** Ethanol; Glycerin; Sorbitol; Sodium benzoate**16 OTHER INFORMATION****Hazard Ratings**

	Health Hazard	Fire Hazard	Reactivity Hazard
HMIS	2*	2	0

	Health Hazard	Fire Hazard	Reactivity Hazard	Special Hazard
NFPA	2	2	0	N/A

* – Chronic health effect; 0 – Minimal; 1 – Slight; 2 – Moderate; 3 – Serious; 4 – Severe

EU Symbol and R Phrase Definitions

F – Highly Flammable.

R11 – Highly flammable.

ABBREVIATIONS:

BIV – Boehringer Ingelheim Vetmedica, Inc.

AIHA – American Industrial Hygiene Association

mppcf – million particles/cubic foot

N/A – Not applicable.

N/E – Not established.

References:

1. Ariel WebInsight Regulatory Database. Regulatory Summary for North America, Western Europe, and Global Inventories Database.
2. GHS Manual
3. Hazardous Substance Data Bank
4. FDA CVM Updates

Revision Information: New MSDS**Prepared by:** Boehringer Ingelheim Vetmedica, Inc.**Issue Date:** 06/28/2011

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