

# SAFETY DATA SHEET



Barrier™ for Dogs and Barrier™ for Cats

Item # 10-100/10-101

## 1. SUBSTANCE IDENTITY/COMPANY CONTACT INFORMATION

**PRODUCT NAME:** Barrier™ for Dogs and Barrier™ for Cats

**MOLECULAR FORMULA:** Topical Solution  
**CHEMICAL FAMILY:** Anti-parasitic and Anti-insecticide

**USE:** Veterinary use.

**SUPPLIER:**

Aurora Pharmaceutical  
1196 South Highway 3  
Northfield, MN 55057

**TELEPHONE NUMBERS:**

Emergency (Chemtrec 24 hours): (800) 424-9300  
Information: (888) 215-1256

## 2. HAZARDS IDENTIFICATION

**Signal word:** Warning

**Pictograms:**



**HAZARD STATEMENTS**

H303 – May be harmful if swallowed  
H332 – May be harmful if inhaled  
H319 – Causes serious eye irritation  
H410 – Very hazardous to aquatic life

**PRECAUTIONARY STATEMENTS**

P261 – Avoid breathing dust/fume/gas/mist/vapors/spray  
P264 – Wash thoroughly after handling  
P281 – Use personal protective equipment as required  
P273 – Avoid release to the environment  
P312 – Call as poison center or doctor/physician if you feel unwell  
P337 + P313 – If eye irritation persists: Get medical advice/attention  
P391 – Collect spillage

**CARCINOGENIC STATUS:** No component of this product is listed as a known carcinogen.

**EFFECTS OF EXPOSURE:** Effects have not been thoroughly investigated.

## 3. COMPOSITION/INFORMATION OF INGREDIENTS

Mixture of the substances listed in this section.

### INGREDIENT 1

**COMMON NAME:** Carbonate derivative  
**% BY WEIGHT:** 10-30%

### INGREDIENT 2

**COMMON NAME:** Alcohol derivative  
**% BY WEIGHT:** 60-100%

### INGREDIENT 3

**COMMON NAME:** Imidacloprid  
**% BY WEIGHT:** 10%  
**CAS NUMBER:** 138261-41-3

### INGREDIENT 4

**COMMON NAME:** Moxidectin  
**% BY WEIGHT:** 1.0% for cats, 2.5% for dogs  
**CAS NUMBER:** 113507-06-5

### ADDITIONAL INGREDIENTS

Additional ingredients are considered non-hazardous.

**EXPOSURE LIMIT(S) FOR THE MATERIAL:**  
Not established.

## 4. FIRST AID MEASURES

**EYES:** Remove contact lenses, if present. Rinse immediately with plenty of water, including under the eyelids, for at least 15 minutes. If irritation persists, obtain medical attention.

**SKIN:** After contact with skin, wash immediately with soap and water. If skin reaction occurs, obtain medical attention.

**INHALATION:** Move to fresh air, seek medical attention.

**INGESTION:** If swallowed, seek medical advice immediately.

## 5. FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Water, foam, carbon dioxide, or dry chemical.

**FIRE FIGHTING PROCEDURES:** Wear self-contained breathing apparatus and full-body protective equipment.

**UNUSUAL FIRE OR EXPLOSION HAZARDS:**  
May cause evolution of Hydrogen cyanide, hydrogen chloride gas, nitrogen oxides, carbon oxides.

**HAZARDOUS COMBUSTION PRODUCTS:**  
Carbon monoxide, carbon dioxide, Nitrogen oxide.

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## 6. ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Ensure adequate ventilation. Avoid contact with skin, eyes, and clothing. Use personal protective equipment.

**ENVIRONMENTAL PRECAUTIONS:** Do not flush into surface water. Do not flush to groundwater and soil.

**METHODS FOR CLEANING UP:** Absorb the liquid with suitable material, then transfer into a suitable container for disposal. Suppress gases/vapors/mists with a water spray jet.

## 7. HANDLING AND STORAGE

**HANDLING:** Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Avoid formation of aerosol.

**STORAGE:** Store between 4°C (39°F) and 25°C (77°F). Store away from food and beverages. Keep out of reach of children.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**RESPIRATORY PROTECTION:** Not required under normal conditions of use.

**VENTILATION:** Good general ventilation should suffice.

**HAND PROTECTION:** Not required under normal condition of use.

**EYE PROTECTION:** Not required under normal condition of use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Clear, to slight opalescent colorless to yellow liquid

**Odor:** Not Determined

**pH:** Not Determined

**Flash Point:** Not Determined

**Auto ignition Temperature:** Not Determined

**Boiling Point/Range:** Not Determined

**Melting Point/Range:** Not Determined

**Flammability (solid, gas):** Not Determined

**Vapor Pressure:** Not Determined

**Vapor Density:** Not Determined

**Density:** 1.09-1.10 g/mL at 20°C

**Water Solubility:** Not Determined

**Reactivity in Water:** None

**Decomposition Temperature:** Not Determined

## 10. STABILITY AND REACTIVITY

**STABILITY:** Stable under normal conditions.

**PHYSICAL CONDITIONS TO AVOID:** Do not allow product to come in contact with heat.

**INCOMPATIBILITY WITH OTHER**

**MATERIALS:** Oxidizing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Hydrogen cyanide, hydrogen chloride gas, nitrogen oxides, carbon oxides.

**HAZARDOUS POLYMERIZATION:** No data available.

## 11. TOXICOLOGICAL INFORMATION

**ACUTE TOXICITY:**

Acute Oral Toxicity estimate: 1,105mg/kg

Acute Inhalation Toxicity estimate: 14.25mg/l

Acute Dermal Toxicity Imidacloprid:

LD50 Rat: >5,000mg/kg

Acute Dermal Toxicity Moxidectin:

LD50 Rabbit: >2,000mg/kg

LD50 Rat: >2,000mg/kg

Acute Dermal Toxicity Carbonate derivative:

LD50 Rabbit: >20,000mg/kg

Acute Dermal Toxicity Alcohol derivative:

LD50 Rabbit: >2,000mg/kg

**CHRONIC TOXICITY:**

Alcohol derivative

Rat 400mg/kg, Exposure time 90-day

**REPRODUCTIVE/DEVELOPMENTAL TOXICITY:** None

## 12. ECOLOGICAL INFORMATION

**ACUTE TOXICITY TO FISH:**

LC50 62µg/l

Imidacloprid: LC50 280mg/l

Moxidectin: LC50 16µg/l

Carbonate derivative: LC50 ca. 5,300mg/l

Alcohol derivative: LC50 10mg/l

**ACUTE TOXICITY TO DAPHNIA/OTHER**

Imidacloprid: EC50 0.055mg/l

Moxidectin: EC50 302ng/l

Carbonate derivative: EC50 >500mg/l

Alcohol derivative: EC50 55mg/l

## 13. DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD:** Dispose of by incineration in accordance with applicable local and nation regulations.

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#### **14. TRANSPORT REGULATIONS**

Not regulated by the United States Department of Transportation (DOT), International Maritime Organization (IMO)

**International Air transport Association (IATA)**

UN Number: 3082

Description of Goods: Environmental Hazardous Substance, Liquid, N.O.S (Moxidectin)

Class: 9

Packaging Group: III

Dangerous Goods Label: 9

Environmentally Hazardous: Yes

#### **15. REGULATORY INFORMATION**

The following components are listed in the United States TSCA (Toxic Substance Control Act)

None

#### **16. OTHER INFORMATION**

**Revision Date: 10/26/2022**

The information and recommendations presented in this SDS are based on sources believed to be accurate. Aurora Pharmaceutical assumes no liability for the accuracy or completeness of this information. It is the user's responsibility to determine the suitability of the information for their particular purposes.