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## 1. Product and Company Identification

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<b>Product Name</b>	Meridian™ InteroSTOP™ noise and interomone™ spray
<b>CAS #</b>	Mixture
<b>Sizes</b>	1 oz
<b>Product use</b>	Behavior correction
<b>Manufacturer</b>	Meridian Animal Health P.O. Box 540160 Omaha, NE 68154-0160 US Phone: 1-866-374-0242 Emergency Phone: 1-866-393-0445
<b>CHEMTREC</b>	1-800-424-9300

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## 2. Hazards Identification

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<b>Emergency overview</b>	<b>CAUTION</b> Contents under pressure. DO NOT puncture or incinerate. DO NOT expose to heat above 49°C (120°F), as container may burst. DO NOT inhale aerosol! Avoid contact with eyes, skin and clothing. Avoid contact with food and food utensils as well as food handling areas. Use only in well ventilated areas. KEEP OUT OF REACH OF CHILDREN
<b>Potential short term health effects</b>	
<b>Routes of exposure</b>	Inhalation, Skin, Eye, Ingestion
<b>Inhalation</b>	May cause nonspecific discomfort such as nausea, headache or weakness, or temporary nervous system depression with dizziness, confusion, incoordination, drowsiness or unconsciousness.
<b>Skin</b>	May cause irritation. May cause frostbite.
<b>Eyes</b>	May cause irritation.
<b>Ingestion</b>	Ingestion is not considered a likely route of exposure.
<b>Target organs</b>	Respiratory system, Skin, Eyes, Digestive tract.
<b>Chronic effects</b>	May cause allergic reaction in sensitive individuals.
<b>Signs and symptoms</b>	Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
<b>OSHA Regulatory Status</b>	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
<b>Potential environmental effects</b>	See Section 12

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## 3. Composition / Information on Ingredients

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<b>Ingredient(s)</b>	<b>CAS #</b>	<b>Percent</b>
Ethane, 1,1-Difluoro	75-37-6	90 – 95
Ethanol	64-17-5	5 – 10

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## 4. First Aid Measures

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<b>First aid procedures</b>	
<b>Inhalation</b>	If high concentrations are inhaled, immediately remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention.
<b>Skin contact</b>	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Treat for frostbite if necessary, by gently warming affected area.
<b>Eye contact</b>	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Obtain medical attention.

<b>Ingestion</b>	Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
<b>General advice</b>	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid inhalation and contact with skin and eyes. Keep out of reach of children.

## 5. Fire Fighting Measures

<b>Flammable properties</b>	NON-FLAMMABLE AEROSOL per ASTM D-3065
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Water Spray, Dry Chemical, Carbon dioxide, "Alcohol" foam
<b>Unsuitable extinguishing media</b>	Not available
<b>Protection of firefighters</b>	
<b>Specific hazards arising from the chemical</b>	All aerosols are pressurized products and will eventually burst if exposed to very high temperatures, or if involved in a fire. Use water spray to cool cylinders and tanks.
<b>Protective equipment for firefighters</b>	Firefighters should wear full protective clothing including self contained breathing apparatus
<b>Hazardous combustion products</b>	May include and are not limited to: Oxides of carbon, Hydrofluoric acid, and possibly carbonyl fluoride.
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	Not available
<b>Sensitivity to static discharge</b>	Not available

## 6. Accidental Release Measures

<b>Personal precautions</b>	Ensure adequate ventilation. Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material. Keep people away from and upwind of spill/leak.
<b>Environmental precautions</b>	Prevent entry into waterways, sewers, basements or confined areas.
<b>Methods for containment</b>	Stop leak if you can do so without risk.
<b>Methods for cleaning up</b>	Before attempting clean up, refer to hazard data given above and use appropriate personal protective equipment (PPE). Eliminate all sources of ignition and ventilate the area. Never return spills in original containers for re-use. Small Spills: Absorb with non-reactive absorbent and place in suitable, covered, labeled containers. Large Spills: Wet down with water and dike for later disposal. After removal flush contaminated area thoroughly with water. Contact emergency services and supplier for advice.

## 7. Handling and Storage

<b>Handling</b>	Use good industrial hygiene practices in handling this material. Use with adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with eyes, skin and clothing. Wash thoroughly with soap and water after handling.
<b>Storage</b>	Keep out of reach of children. Store in a closed container in a clean, dry area, away from incompatible materials. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 49°C (120°F). Keep away from all sources of ignition.

## 8. Exposure Controls / Personal Protection

Exposure limits	Exposure Limits
Ingredient(s)	
Ethane, 1,1-Difluoro	<b>ACGIH-TLV</b> None established <b>OSHA-PEL</b> None established

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Ethanol

**ACGIH-TLV**

1000 ppm

**OSHA-PEL**

1000 ppm

<b>Engineering controls</b>	Maintain adequate ventilation.
<b>Personal protective equipment</b>	
<b>Eye / face protection</b>	Safety glasses.
<b>Hand protection</b>	None required for normal use.
<b>Skin and body protection</b>	As required by employer code. Read label directions and cautions. Follow directions carefully to avoid injury.
<b>Respiratory protection</b>	None required for normal use. Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
<b>General hygiene considerations</b>	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes, skin and clothing. When using, do not eat or drink. Wash hands before breaks and immediately after handling the product.

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## 9. Physical and Chemical Properties

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<b>Appearance</b>	Aerosol
<b>Color</b>	Colorless
<b>Form</b>	Pressurized gas
<b>Odor</b>	Lavender Chamomile
<b>Odor threshold</b>	Not available
<b>Physical state</b>	Mixture packaged in a pressurized aerosol spray container
<b>pH</b>	N/A
<b>Freezing point</b>	Not available
<b>Boiling point</b>	-25°C (-13°F)
<b>Pour point</b>	Not available
<b>Evaporation rate</b>	Not available
<b>Flash point</b>	<-50°C (<-58°F)
<b>Auto-ignition temperature</b>	454°C (849°F)
<b>Flammability limits in air, lower, % by volume</b>	3.9
<b>Flammability limits in air, upper, % by volume</b>	16.9
<b>Vapor pressure</b>	87 psi @ 25°C (77°F)
<b>Vapor density</b>	2.4 @ 25°C (77°F)
<b>Density</b>	0.90 g/ml @ 25°C (77°F)
<b>Octanol/water coefficient</b>	Not available
<b>Solubility (H2O)</b>	0.28% @ 25°C (77°F)

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## 10. Stability and Reactivity

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<b>Reactivity</b>	None known.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	Keep away from open flames, hot surfaces and sources of ignition.
<b>Incompatible materials</b>	Alkaline earth metals – Powered Al, Zn, Be, etc..., Oxidizers. Do not mix with other chemicals.
<b>Hazardous decomposition products</b>	May include and are not limited to: Oxides of carbon, Hydrofluoric acid, and Carbonyl Fluoride.

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## 11. Toxicological Information

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### Component analysis - LC50

Ingredient(s)	LC50
Ethane, 1,1-Difluoro	383,000 mg/L/4hr Rat
Ethanol	Not available

### Component analysis - Oral LD50

Ingredient(s)	LD50
Ethane, 1,1-Difluoro	>1,500 mg/kg Rat
Ethanol	Not available

### Effects of acute exposure

<b>Inhalation</b>	May cause nonspecific discomfort such as nausea, headache or weakness, or temporary nervous system depression with dizziness, confusion, incoordination, drowsiness or unconsciousness.
<b>Skin</b>	May cause irritation. May cause frostbite.
<b>Eye</b>	May cause eye irritation.
<b>Ingestion</b>	Ingestion is not considered a likely route of exposure.
<b>Sensitization</b>	Not expected to be a skin sensitizer.
<b>Chronic effects</b>	May cause allergic reaction in sensitive individuals.
<b>Carcinogenicity</b>	Non-hazardous by OSHA criteria.
<b>Mutagenicity</b>	Not available
<b>Reproductive effects</b>	Not available
<b>Teratogenicity</b>	Not available
<b>Name of Toxicologically Synergistic Products</b>	Not available

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## 12. Ecological Information

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<b>Ecotoxicity</b>	See below
<b>Ecotoxicity - Freshwater Fish - Acute Toxicity Data</b>	
Ethanol	64-17-5 96 Hr LC50 Fingerling trout: 11200 mg/L; 96 Hr LC50 Rainbow trout (30 days old): 12900 mg/L [flow-through]; 96 Hr LC50 Fathead minnow: 14200 mg/L [flow-through]; 48 Hr EC50 Photobacterium phosphoreum: 34634 mg/L; 48 Hr EC50 Photobacterium phosphoreum: 35470 mg/L
<b>Persistence / degradability</b>	Not available
<b>Bioaccumulation / accumulation</b>	Not available
<b>Mobility in environmental media</b>	Not available
<b>Environmental effects</b>	Not available
<b>Aquatic toxicity</b>	Not available
<b>Partition coefficient</b>	Not available
<b>Chemical fate information</b>	Not available

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## 13. Disposal Considerations

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<b>Disposal instructions</b>	Review federal, state and local government requirements prior to disposal. Do not reuse or refill this container. IF EMPTY: Place in trash or offer for recycling if available. IF PARTLY FILLED: Call your local waste agency for disposal instructions.
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations
<b>Contaminated packaging</b>	Packaging and container to be recycled only if emptied completely!

## 14. Transport Information

### U.S. Department of Transportation (DOT)

### Package Labels

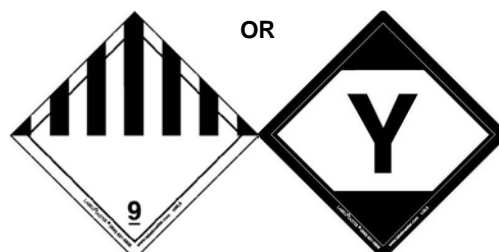
#### Basic shipping requirements:

##### Option 1)

Proper shipping name	Consumer Commodity
Hazard class	9
UN number	ID8000
Packing group	N/A

#### Additional information:

Excepted quantity	N/A
Limited quantity	1L
Special provisions	156, 167, 306



##### Option 2)

Proper shipping name	Aerosols, Limited Quantity
Hazard class	2.1
UN number	1950
Packing group	N/A

#### Additional information:

Excepted quantity	N/A
Limited quantity	1L
Special provisions	N82, 306



### IMDG (Marine Transport)

#### Basic shipping requirements:

Proper shipping name	Aerosols, Limited Quantity
Hazard class	2.1
UN number	1950
Packing group	N/A

#### Additional information:

Excepted quantity	E0
Limited quantity	1L
Special provisions	63, 190, 277, 327, 959
Stowage location	Cat A



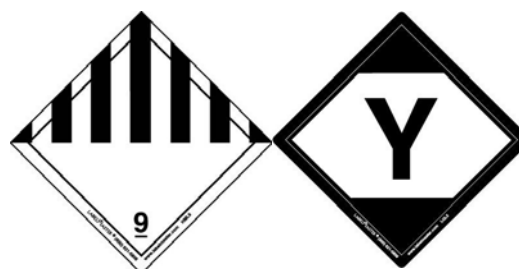
### IATA / ICAO (Air)

#### Basic shipping requirements:

Proper shipping name	Consumer Commodity
Hazard class	9
UN number	ID8000
Packing group	N/A

#### Additional information:

Excepted quantity	E0
Limited quantity	
Passenger/Cargo aircraft	30 kg Gross
Special provisions	A112



## 15. Regulatory Information

### Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

**US Federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### U.S. - CERCLA/SARA - Section 313 - Emission Reporting

None

### CERCLA (Superfund) reportable quantity

None

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories**  
 Immediate Hazard - Yes  
 Delayed Hazard - No  
 Fire Hazard - Yes  
 Pressure Hazard - Yes  
 Reactivity Hazard - No

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** No

**Clean Air Act (CAA)** Not available

**Clean Water Act (CWA)** Not available

**State regulations** This product **does not** contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

### Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

## 16. Other Information

LEGEND HMIS	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	/ 1
Flammability	4
Physical Hazard	1
Personal Protection	X

### Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

### Issue date

04-May-2012

### Effective date

01-May-2012

### Prepared by

Meridian's Regulatory Department

### Other information

For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.

This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.

Revision date:  
 Sections revised:  
 Supersedes MSDS dated: