

SAFETY DATA SHEETS

This SDS packet was issued with item:

078953451

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

078953452 078953453

Imoxi® Topical Solution (imidacloprid + moxidectin)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Issue date: 2/27/2024 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Trade name : Imoxi® Topical Solution (imidacloprid + moxidectin)

1.2. Recommended use and restrictions on use

Recommended use : Veterinary treatment for fleas, heartworms, hookworms, microfilariae, roundworms, whipworms.
Restrictions on use : Federal law restricts this drug to use by or on the order of a licensed veterinarian.

1.3. Supplier

Vetoquinol USA Inc
4250 N Sylvania Ave
Fort Worth, TX 76137
T 817-529-7500
customerserviceusa@vetoquinol.com

1.4. Emergency telephone number

Emergency number : For Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night: 1-800-424-9300 (Toll Free, USA) / 703-527-3887 (Virginia, USA)
CCN 1016512

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Acute toxicity (oral) Category 4 Harmful if swallowed
Acute toxicity (inhalation:dust,mist) Category 4 Harmful if inhaled
Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Warning
Hazard statements (GHS US) : Harmful if swallowed or if inhaled
Precautionary statements (GHS US) : Avoid breathing mist, spray, vapors.
Wash hands, forearms and face thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
If swallowed: Call a poison center or doctor if you feel unwell.
Rinse mouth.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
Call a poison center or doctor if you feel unwell.
Dispose of contents/container to an approved waste disposal plant.

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2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

30% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

40% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Benzyl alcohol	CAS-No.: 100-51-6	60 – 80	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Aquatic Chronic 3, H412
Imidacloprid	CAS-No.: 138261-41-3	8 – 10	Acute Tox. 3 (Oral), H301 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Moxidectin	CAS-No.: 113507-06-5	0.5 – 3	Acute Tox. 3 (Oral), H301 Eye Irrit. 2A, H319 Aquatic Acute 1, H400
Butylated hydroxytoluene (BHT)	CAS-No.: 128-37-0	≤ 1	Eye Irrit. 2A, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general	: IF exposed or concerned: Get medical advice/attention. First aider: Pay attention to self-protection. Never give anything by mouth to an unconscious person. Give artificial respiration if necessary. Induce artificial respiration with mask fitted with one-way valve or other suitable device but not mouth-to-mouth.
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If the victim is unconscious : Lay in a stable manner on victim's side. Induce artificial respiration with mask fitted with one-way valve or other suitable device; not mouth-to-mouth. Get immediate medical advice/attention.
First-aid measures after skin contact	: Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: If the person is fully conscious, make him/her drink water (8 ounces / 240mL). Never give an unconscious person anything to drink. Do NOT induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical advice/attention.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects	: Depression of the central nervous system, headaches, dizziness, drowsiness, loss of coordination.
Symptoms/effects after inhalation	: Harmful if inhaled.

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Symptoms/effects after skin contact	: Repeated or prolonged contact may cause skin irritation.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: Harmful if swallowed.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Dry chemical, CO2, or water spray or regular foam.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard	: No fire hazard.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. Use extinguishing media appropriate for surrounding fire. Move containers from fire area if it can be done without personal risk. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Evacuate the danger area. If outdoors, move to an area upwind of the danger area. If possible without taking personal risks, remove ignition sources, ventilate area. Prevent other non-emergency personnel from entering the danger area.

6.1.2. For emergency responders

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Evacuate personnel to a safe area. Ventilate spillage area. Do not touch spilled material.

6.2. Environmental precautions

Do not let the product reach soil, drains, sewers, or surface and ground water.

6.3. Methods and material for containment and cleaning up

For containment	: Contain with non-combustible inert absorbent.
Methods for cleaning up	: Clean up any spills as soon as possible, using an absorbent material to collect it. Contaminated absorbent material may pose the same hazard as the spilt product. Decontaminate surfaces and equipment with water and detergent. Until a sufficient level of dilution is achieved, the decontamination water may pose the same hazards as the product. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Handle in accordance with good industrial hygiene and safety procedures. Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station.
	Avoid contact with skin, eyes and clothing. Do not breathe mist, spray, vapors.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store in a cool, dry and well-ventilated area away from incompatible substances. Keep container closed when not in use.
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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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No additional information available

Benzyl alcohol (100-51-6)

No additional information available

Imidacloprid (138261-41-3)

No additional information available

Moxidectin (113507-06-5)

No additional information available

Butylated hydroxytoluene (BHT) (128-37-0)

USA - ACGIH - Occupational Exposure Limits

Local name	Butylated hydroxytoluene
ACGIH OEL TWA	2 mg/m ³ (IFV - Inhalable fraction and vapor)
Remark (ACGIH)	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2024

8.2. Appropriate engineering controls

Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment. Take measures to reduce or limit air emissions and releases to soil and the aquatic environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Personal protective equipment should be chosen according to national standards and in discussion with the supplier of the protective equipment. Wear recommended personal protective equipment.

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Hand protection:

Chemically impervious gloves as described by OSHA's hand protection regulations in 29 CFR 1910.138 . Consider double gloves. Wear nitrile or other impervious gloves if skin contact is possible. When the material is dissolved or suspended in an organic solvent, wear gloves that provide protection against the solvent.

Eye protection:

Wear safety glasses which protect from splashes

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid.
Appearance	: Liquid.
Color	: Brown Yellow Clear
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: > 100 °C Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Density	: 1.09 g/cm ³ (20 °C)
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosion limits	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Incompatible materials.

10.5. Incompatible materials

Oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Inhalation:dust,mist: Harmful if inhaled.

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ATE US (oral)	644.037 mg/kg body weight
ATE US (dust, mist)	1.613 mg/l/4h
Unknown acute toxicity (GHS US)	30% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 40% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

Benzyl alcohol

LD50 oral	1580 mg/kg body weight
LD50 dermal rabbit	> 2000 mg/kg body weight
LC50 Inhalation - Rat	> 4.178 mg/l air

Imidacloprid

LD50 dermal rat	> 5000 mg/kg body weight
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Moxidectin

LD50 oral rat	106 mg/kg body weight
LD50 dermal rat	> 2000 mg/kg body weight

Butylated hydroxytoluene (BHT)

LD50 oral rat	> 6000 mg/kg body weight
LD50 dermal rat	> 2000 mg/kg body weight

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Skin corrosion/irritation : Not classified

Imidacloprid

Additional information	Not irritating to rabbits on cutaneous application
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Moxidectin

Skin corrosion/irritation, rabbit	Mildly irritating
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Butylated hydroxytoluene (BHT)

Skin corrosion/irritation, rabbit	Negative
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Skin corrosion/irritation, human	Mildly irritating
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Serious eye damage/irritation : Not classified

Imidacloprid

Additional information	Not irritating to rabbits on ocular application
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Moxidectin

Serious eye damage/irritation, rabbit	Moderately irritating
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Butylated hydroxytoluene (BHT)

Serious eye damage/irritation, rabbit	Moderate eye irritation
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Respiratory or skin sensitization : Not classified

Moxidectin

Additional information	No sensitizing reaction was observed for guinea pigs
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Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Butylated hydroxytoluene (BHT)

NOAEL (chronic,oral,animal/male,2 years)	25 mg/kg body weight
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IARC group	3 - Not classifiable
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Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Benzyl alcohol

NOAEL (oral,rat,90 days)	400 mg/kg body weight
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Imidacloprid

LOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.0305 mg/l air
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NOAEL (dermal,rat/rabbit,90 days)	1000 mg/kg body weight
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NOAEC (inhalation,rat,dust/mist/fume,90 days)	0.0055 mg/l air
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Aspiration hazard : Not classified

Viscosity, kinematic : Not applicable

Benzyl alcohol

Viscosity, kinematic	4.851 mm²/s
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Symptoms/effects : Depression of the central nervous system, headaches, dizziness, drowsiness, loss of coordination.

Symptoms/effects after inhalation : Harmful if inhaled.

Symptoms/effects after skin contact : Repeated or prolonged contact may cause skin irritation.

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Symptoms/effects after eye contact : May cause eye irritation.
Symptoms/effects after ingestion : Harmful if swallowed.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.

Benzyl alcohol

LC50 - Fish [1]	460 mg/l
EC50 - Crustacea [1]	230 mg/l
EC50 72h - Algae [1]	770 mg/l
EC50 72h - Algae [2]	500 mg/l
EC50 96h - Algae [1]	76.828 mg/l
NOEC chronic fish	48.897 mg/l

Imidacloprid

LC50 - Fish [1]	161 mg/l
EC50 - Crustacea [1]	85 mg/l
EC50 72h - Algae [1]	> 100 mg/l
NOEC (chronic)	1.8 mg/l
NOEC chronic fish	9.02 mg/l

Moxidectin

LC50 - Fish [1]	0.000016 mg/l
EC50 - Crustacea [1]	0.00003 mg/l

Butylated hydroxytoluene (BHT)

LC50 - Fish [1]	> 0.57 mg/l
EC50 - Crustacea [1]	0.48 mg/l
EC50 72h - Algae [1]	> 0.4 mg/l
LOEC (chronic)	1 mg/l
NOEC (chronic)	0.023 mg/l

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

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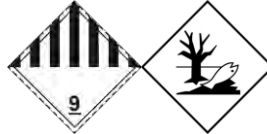
SECTION 13: Disposal considerations

13.1. Disposal methods

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations. Refer to all applicable national, international and local regulations or provisions.
Additional information	: Do not re-use empty containers.

SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

DOT	IMDG	IATA
14.1. UN number		
3082	3082	3082
14.2. Proper Shipping Name		
Environmentally hazardous substances, liquid, n.o.s. (CONTAINS : Imidacloprid ; Moxidectin)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS : Imidacloprid ; Moxidectin)	Environmentally hazardous substance, liquid, n.o.s. (CONTAINS : Imidacloprid ; Moxidectin)
14.3. Transport hazard class(es)		
9	9	9
		
14.4. Packing group		
III	III	III
14.5. Environmental hazards		
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes
No supplementary information available		

14.6. Special precautions for user

DOT	
UN-No.(DOT)	: UN3082
DOT Packaging Exceptions (49 CFR 173.xxx)	: 155
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: No Limit
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: No Limit
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

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IMDG

Special provision (IMDG)	: 274, 335, 969
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: LP01, P001
Packing provisions (IMDG)	: PP1
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, TP29
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	: S-F - SPILLAGE SCHEDULE Foxtrot - WATER-SOLUBLE MARINE POLLUTANTS
Stowage category (IMDG)	: A

IATA

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y964
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 964
PCA max net quantity (IATA)	: 450L
CAO packing instructions (IATA)	: 964
CAO max net quantity (IATA)	: 450L
ERG code (IATA)	: 9L

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

Imidacloprid	CAS-No. 138261-41-3	8 – 10%
Moxidectin	CAS-No. 113507-06-5	0.5 – 3%

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

Benzyl alcohol (100-51-6)

Listed on the Canadian DSL (Domestic Substances List)

Imidacloprid (138261-41-3)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

Moxidectin (113507-06-5)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

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Butylated hydroxytoluene (BHT) (128-37-0)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Benzyl alcohol (100-51-6)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Imidacloprid (138261-41-3)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Butylated hydroxytoluene (BHT) (128-37-0)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

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Full text of H-phrases

H301	Toxic if swallowed
H302	Harmful if swallowed
H319	Causes serious eye irritation
H332	Harmful if inhaled
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.