SAFETY DATA SHEET



1. Identification

Product identifier	Moxidectin Oral Gel	
Other means of identification		
Synonyms	QUEST® Gel * QUEST GEL * QUEST® 2% E	quine Oral Gel * Moxidectin equine oral gel
Recommended use	Veterinary product used as anti-worm agent (a	anthelmintic)
Recommended restrictions	Not for human use	
Manufacturer/Importer/Supplier/	Distributor information	
Company Name (USA)	Zoetis Inc.	
	10 Sylvan Way	
	Parsippany, New Jersey 07054 (USA)	
Rocky Mountain Poison and Drug Center	1-866-531-8896	
Product Support/Technical Services	1-888-963-8471	
Emergency telephone numbers	CHEMTREC (24 hours): 1-800-424-9300	
	International CHEMTREC (24 hours): +1-703-	527-3887
Company Name (CA)	Zoetis Canada Inc.	
	16740 Trans-Canada Highway	
	Kirkland, Quebec, H9H 4M7	
Emergency telephone number	International CHEMTREC (24 hours): +1-703-	527-3887
Contact E-Mail	productsupport@zoetis.com	
Product Support	1-800-461-0917	
	All Safety Data Sheets are available via our Zo https://www.zoetis.ca/sds/sds.aspx	oetis Canada website at
Supplier	Not available.	
2. Hazard identification		
Physical hazards	Not classified.	
Health hazards	Specific target organ toxicity following repeated exposure	Category 2 (central nervous system)
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 1
	Hazardous to the aquatic environment, long-term hazard	Category 1
Label elements		
Signal word	Warning	
Hazard statement	May cause damage to organs (central nervous Very toxic to aquatic life with long lasting effec	s system) through prolonged or repeated exposure.
Precautionary statement	,	
Prevention	Do not breathe dust/fume/gas/mist/vapours/sp	oray. Avoid release to the environment.
Response	Get medical advice/attention if you feel unwell	•
Storage	Store away from incompatible materials.	
Material name: Moxidectin Oral Gel		SDS CANAD/

Version #: 04 Revision date: 05-July-2022 Issue date: 05-June-2017

Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Supplemental information	None.
Other hazards	None known.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Benzyl alcohol		100-51-6	4
Moxidectin		113507-06-5	2

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist. For breathing difficulties, oxygen may be necessary.
Skin contact	Wash off immediately with soap and plenty of water. Get medical advice/attention if you feel unwell. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Remove contact lenses, if present and easy to do.
Ingestion	Rinse mouth. Call a physician or poison control centre immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconsious person.
Most important symptoms/effects, acute and delayed	May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage. Direct contact with eyes may cause temporary irritation. Exposed individuals may experience eye tearing, redness, and discomfort.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed. May cause central nervous system effects.
General information	IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Use water spray to cool unopened containers.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Ventilate the contaminated area. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapour. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. Avoid contact with eyes, skin, and clothing. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Avoid release to the environment. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Prevent entry into waterways, sewer, basements or confined areas. Ensure adequate ventilation.
	Large Spills: Stop the flow of material, if this is without risk. Clean surface thoroughly to remove residual contamination.
	Small Spills: Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Clean contaminated surface thoroughly.

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

• •	
Precautions for safe handling	Do not breathe mist or vapour. Do not taste or swallow. Use this product with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Keep away from heat, sparks and open flame. Store in tightly closed container. Store in a well-ventilated place. Do not allow material to freeze. Store at 15-30°C (59-86°F). Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

Zoetis Components	Туре	Value	
Moxidectin (CAS 113507-06-5)	TWA	70 µg/m3	
Biological limit values	No biological exposure limits noted f	or the ingredient(s).	
Control banding approach	Moxidectin - Zoetis OEB 3 (control e	xposure to the range of 10ug/m3 to < 100ug/m3)	
Appropriate engineering controls	Good general ventilation 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. Ensure adequate ventilation, especially in confined areas. Provide eyewash station. Keep air contamination levels below the exposure limits or within the OEB range listed above in this section. Engineering controls should be used as the primary means to control exposures. General room ventilation is adequate unless the process generates dust, mist or aerosols.		
Individual protection measures,	, such as personal protective equipn	nent	
Eye/face protection	Wear safety glasses or goggles if eye contact is possible.		
Skin protection			
Hand protection		Wear appropriate chemical resistant gloves. Impervious gloves are recommended if skin contact with drug product is possible and for bulk processing operations.	
Other	Wear suitable protective clothing. Use of an impervious apron is recommended. Impervious protective clothing is recommended if skin contact with drug product is possible and for bulk processing operations.		
Respiratory protection	No personal respiratory protective equipment normally required. Chemical respirator with organic vapour cartridge, full facepiece, dust and mist filter. If the applicable Occupational Exposure Limit (OEL) is exceeded, wear an appropriate respirator with a protection factor sufficient to control exposures to below the OEL.		
Thermal hazards	Not applicable.		
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.		

9. Physical and chemical properties

Appearance gel.	
Physical state Liquid.	
Form Solid.	
Colour Clear.	
Odour Not availa	ble.
Odour threshold Not available	ble.
pH Not availal	ble.
Melting point/freezing point Not available	ble.
Initial boiling point and boiling Not availal	ble.
range	
Flash point Not availal	ole.

Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	plosive limits
Explosive limit - lower (%)	Not available.
Explosive limit – upper (%)	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
10. Stability and reactivity	,
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Keep away from heat, spark, open flames and other sources of ignition. Contact with incompatible materials. Protect from freezing. Avoid release to the environment.
Incompatible materials	Avoid contact with oxidisers or reducing agents.
Hazardous decomposition products	Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition. Carbon dioxide, carbon monoxide, and oxides of nitrogen.
11. Toxicological information	tion
Information on likely routes of e	exposure
Inhalation	Under normal conditions of intended use, this material is not expected to be an inhalation hazard. Prolonged inhalation may be harmful.

Skin contact	Frequent or prolonged contact m dermatitis.	ay defat and dry the skin, leading to discomfort and
Benzyl alcohol		Species: Guinea Pig Severity: Moderate
Moxidectin		Species: Rabbit Severity: Mild
Benzyl alcohol		Species: Rabbit Severity: Minimal
Eye contact	Direct contact with eyes may cau	use temporary irritation.
Moxidectin		Species: Rabbit Severity: Moderate
Benzyl alcohol		Species: Rabbit Severity: Severe
Ingestion	May cause discomfort if swallowe	ed.

May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage. Direct contact with eyes may cause temporary irritation. Exposed individuals may experience eye tearing, redness, and discomfort.

Information on toxicological effects

Acute toxicity	Not acutely toxic	
Product	Species	Test Results
Ioxidectin Oral Gel		
Acute		
Dermal		
ATE		> 10000 mg/kg
Oral		
ATE		4345 mg/kg
Components	Species	Test Results
Benzyl alcohol (CAS 100-51-6)		
Acute		
Dermal		
LD50	Rabbit	2000 mg/kg
Inhalation		
LC50	Rat	> 4.178 mg/l
		1000 mg/l, 8 Hours
Oral		
LD50	Mouse	1580 mg/kg
	Rat	1230 mg/kg
loxidectin (CAS 113507-06-5)		
<u>Acute</u>		
Dermal		
LD50	Rat	> 2000 mg/kg
Oral		
LD50	Rat	106 mg/kg
<u>Chronic</u>		
Oral		
NOEL	Mouse	30 mg/kg/day, 2 years (Not carcinogenic)
	Rat	100 mg/kg/day, 2 years (Not carcinogenic
Subacute		
Oral		
LOEL	Rat	100 mg/kg/day, 28 days (Central Nervous System)
NOEL	Mouse	75 mg/kg/day, 28 days (Central nervous system)
Subchronic		
Oral		
NOEL	Dog	10 mg/kg/day, 90 days (Central Nervous System)
	Rat	50 mg/kg/day, 13 weeks (Central Nervous System)
kin corrosion/irritation	Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.	
Corrosivity		
Moxidectin	Species: Rabbit Severity: Mild	
Serious eye damage/eye rritation	Direct contact with eyes may cause tempor	ary irritation.

	Eye contact Moxidectin		Species: Rabbit Severity: Moderate
	Benzyl alcohol		Species: Rabbit Severity: Severe
Re	spiratory or skin sensitisation Respiratory sensitisation	Not a respiratory sensitiser.	
	Skin sensitisation	This product is not expected to	cause skin sensitisation.
	Skin Sensitisation Moxidectin		Species: Guinea Pig Severity: Negative
Ge	erm cell mutagenicity	No data available to indicate p mutagenic or genotoxic.	roduct or any components present at greater than 0.1% are
	Mutagenicity		
	Moxidectin		In Vitro Bacterial Mutagenicity (Ames) Result: Negative Species: Salmonella , E. coli
			In Vitro HGPRT Forward Gene Mutation Assay Result: Negative
			Species: Chinese Hamster Ovary (CHO) cells
			In Vivo Cytogenetics Result: Negative
			Species: Rat Bone Marrow
			In Vivo Unscheduled DNA Synthesis
			Result: Negative Species: Rat Hepatocyte
Ca	rcinogenicity	Not classifiable as to carcinogenicity to humans. Due to partial or complete lack of data the classification is not possible.	
Re	productive toxicity	This product is not expected to data, the classification criteria	cause reproductive or developmental effects. Based on available are not met.
	Developmental effects		
	Moxidectin		1 mg/kg/day Embryo / Fetal Development, (Maternal toxicity, Not teratogenic)
			Result: NOEL
			Species: Rabbit Organ: Oral route
			5 mg/kg/day Embryo / Fetal Development, (Negative)
			Result: NOEL
			Species: Rat Organ: Oral route
			5 mg/kg/day Embryo / Fetal Development, (Not Teratogenic, Embryotoxicity, Maternal Toxicity)
			Result: NOEL Species: Rat Organ: Oral route
	ecific target organ toxicity - ngle exposure	Not classified.	
	ecific target organ toxicity - peated exposure	May cause damage to organs (central nervous system) through prolonged or repeated exposure.	
As	piration hazard	Not an aspiration hazard.	
Ch	ironic effects	Prolonged inhalation may be h or repeated exposure.	armful. May cause damage to organs through prolonged

Further information

Ecotoxicity

Adverse effects associated with therapeutic use include clumsy motion of limbs/trunk (ataxia), drowsiness, depression, and salivation.

12. Ecological information

Very toxic to aquatic life with long lasting effects. Avoid release to the environment.

		aquatic life with long lasting chects. Avoid I	
Components		Species	Test Results
Benzyl alcohol (CAS 100-51	-6)		
Aquatic			
Algae	EC50	Pseudokirchneriella subcapitata (Green Alga)	500 mg/l, 72 Hours
Crustacea	EC50	Daphnia magna (Water Flea)	230 mg/l, 48 Hours
			66 mg/l, 21 day(s) Toxicity for reproduction
Fish	LC50	Pimephales promelas (Fathead Minnow)	460 mg/l, 96 Hours
Acute			
Fish	LC50	Bluegill (Lepomis macrochirus)	10 mg/l, 96 hours
Moxidectin (CAS 113507-06	5-5)		
Aquatic			
Algae	ErC50	Green algae (Selenastrum capricornutum)	> 87 ppb, 72 Hours
Crustacea	EC50	Daphnia magna (Water Flea)	30 ppt, 48 Hours
Fish	LC50	Lepomis macrochirus (Bluegill Sunfish)	0.62 ppb, 96 Hours
		Oncorhynchus mykiss (rainbow trout)	0.16 ppb, 96 Hours
ersistence and degradability	The active in	ngredient in this formulation is expected to bi	ind to soil or sediment
Biodegradability			
Percent Degradation (Benzyl alcohol	Aerobic Biodeç	g radation) 92 - 96 % Test Duration: 28 days	
Bioaccumulative potential	See below		
Partition coefficient n-octa Benzyl alcohol	anol / water (log	; Kow) 1.1	
Moxidectin		4.77	
Nobility in soil	The active in	ngredient in this formulation is expected to bi	ind to soil or sediment.
Adsorption			
Soil/Sediment Sorptio Moxidectin	n - Log Koc	4.3 - 4.6	
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		
13. Disposal consideration	ons		
Disposal instructions		e to the environment. Considering the releva	ant known environmental and human
	Avoid release to the environment. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater. Dispose of contents/container in accordance with local/regional/national/international regulations.		
ocal disposal regulations	Dispose in a	ccordance with all applicable regulations.	
lazardous waste code	The waste condisposal con	ode should be assigned in discussion betwe npany.	en the user, the producer and the waste
Vaste from residues / unused products		n accordance with local regulations. Empty c dues. This material and its container must be	

Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

Contaminated packaging

TDG

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IATA; IMDG; TDG



Marine pollutant



General information

IMDG Regulated Marine Pollutant. As of January 1, 2015, materials offered for transport that are classified for transportation only as Marine Pollutants and which are packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 Liters or less for liquids or having a net mass per single or inner packaging of 5 kilograms or less for solids are NOT subject to ICAO/IATA, IMDG, or ADR transport regulations provided the general packaging requirements of those regulations are met. Refer to ICAO/IATA A197, IMDG 2.10.2.7, ADR SP 375. Please refer to the applicable dangerous goods regulations for additional information. Transport according to the requirements of the appropriate regulatory body.

15. Regulatory information

Canadian regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Controlled Drugs and Substances Act

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed. Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto Protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes

Country(s) or region

United States & Puerto Rico

Inventory name

Toxic Substances Control Act (TSCA) Inventory

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information	
Issue date	05-June-2017
Revision date	05-July-2022
Version No.	04
List of abbreviations	AICIS: Australian Inventory of Industrial Chemicals. ATE: Acute Toxicity Estimate according to REGULATION (EC) No 1272/2008 (CLP).
Disclaimer	Zoetis Inc. believes that the information contained in this Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time. The information in the sheet was written based on the best knowledge and experience currently available.
Revision information	Transport Information: Material Transportation Information