SAFETY DATA SHEET



Section 1: Identification

Product identifier Moxidectin 0.5% Pour-On

Other means of identification

CYDECTIN Pour-On * CYDECTIN (moxidectin) 0.5% Pour-On Synonyms

Recommended use of the chemical and restrictions on use

Recommended use Veterinary product used as anti-worm agent (anthelmintic)

Restrictions on use Not for human use

Details of manufacturer or importer

Zoetis New Zealand Limited Company Name (NZ)

Level 4, 8 Mahuhu Crescent

Auckland Central

Auckland 1010, New Zealand

0800 963 847 (Business Hours) Telephone No.

Emergency No. (National

Poisons Centre)

0800 POISON (0800 764 766)

Emergency No. (Emergency Services) In an emergency dial 111

Section 2: Hazard identification

Classification of the hazardous chemical

Physical hazards Flammable liquids Category 4 **Health hazards** Skin corrosion/irritation Category 2 **Environmental hazards** Hazardous to the aquatic environment, acute Category 1

hazard

Hazardous to the aquatic environment.

long-term hazard

Category 1

Label elements, including precautionary statements

Hazard symbol(s)



Exclamation Environment

mark

Signal word Warning

Hazard statement(s) Combustible liquid. Causes skin irritation. Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

Prevention Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Wash thoroughly after handling. Avoid release to the environment. Wear protective

gloves/protective clothing/eye protection/face protection.

IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Response

Take off contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to

extinguish. Collect spillage.

Storage Store in a well-ventilated place.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards which do not

result in classification

None.

Supplemental information None.

Section 3: Composition/information on ingredients

Mixture

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients
Petroleum solvent naphtha, light aromatic	64742-95-6	15

Material name: Moxidectin 0.5% Pour-On SDS NEW ZEALAND Version #: 01 Issue date: 04-March-2024 1/8

Butene, homopolymer	9003-29-6	10
Moxidectin	113507-06-5	0.5
Moxidectin Technical Material (MTM)		
Butylated hydroxyanisole	25013-16-5	<0.1

Composition comments

Other components below reportable levels.

Section 4: First-aid measures

Description of necessary first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist. Call a poison centre or

doctor/physician if you feel unwell.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. If skin irritation or

rash occurs: Get medical advice/attention. Get medical advice/attention if you feel unwell.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Get medical attention immediately.

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.

Personal protection for first-aid

responders

IF exposed or concerned: Get medical advice/attention. You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call. 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. Wash contaminated clothing before reuse.

Direct contact with eyes may cause temporary irritation. Exposed individuals may experience eye Symptoms caused by exposure

tearing, redness, and discomfort. Causes skin irritation. Signs and symptoms might include skin rash, itching, redness or swelling. Prolonged exposure may cause chronic effects. Adverse effects associated with therapeutic use include clumsy motion of limbs/trunk (ataxia), drowsiness,

depression, salivation.

Medical attention and special

treatment

Provide general supportive measures and treat symptomatically. Monitor respiratory, cardiac and

central nervous system. Symptoms may be delayed.

Section 5: Fire-fighting measures

Extinguishing media

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

The product is combustible, and heating may generate vapours which may form explosive

vapour/air mixtures. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for fire

fighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do

Fire fighting

equipment/instructions

None.

so without risk.

Hazchem code Hazards from combustion

products

None

General fire hazards

Combustible liquid.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Keep unnecessary personnel away.

For emergency responders

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Do not breathe mist or vapour. Avoid contact with eyes, skin, and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Local authorities should be advised if significant spillages cannot be contained.

Environmental precautions

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. Avoid discharge into drains, water courses or onto the ground.

Material name: Moxidectin 0.5% Pour-On SDS NEW ZEALAND Methods and materials for containment and cleaning up

Ensure adequate ventilation. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Wear appropriate protective equipment and clothing during clean-up. Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Clean surface thoroughly to remove residual contamination.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). 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.

Section 7: Handling and storage

Precautions for safe handling

Combustible Liquid. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Wear appropriate personal protective equipment. Use this product with adequate ventilation. Do not breathe mist/vapours. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash thoroughly after handling. Avoid release to the environment. Do not empty into drains.

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat, sparks and open flame. Protect from sunlight. Store away from incompatible materials (see Section 10 of the SDS). Use appropriate container to avoid environmental contamination.

Section 8: Exposure controls/personal protection

Control parameters

Follow standard monitoring procedures.

Occupational exposure limits

Zoetis

Components	Туре	Value
Moxidectin (CAS	TWA	70 μg/m3

Biological limit values

No biological exposure limits noted for the ingredient(s).

Control banding approach

Appropriate engineering

controls

Provide adequate general and local exhaust ventilation. 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. Provide eyewash station and safety shower.

Individual protection measures, for example personal protective equipment (PPE)

Eye/face protection Wear safety goggles as minimum protection (face shield recommended if splashing is possible).

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Not available.

Other Wear suitable protective clothing. Impervious protective clothing is recommended if skin contact

with drug product is possible and for bulk processing operations.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. 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. Whenever air contamination (mist, vapor or odor) is generated, respiratory protection is recommended as a precaution to minimize exposure.

Thermal hazards Not applicable.

Hygiene measures When using do not smoke. 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.

Section 9: Physical and chemical properties

Oily. Liquid. **Appearance** Liquid. Physical state Form Liquid. Colour Clear, Amber, Not available. Odour Not available. Odour threshold Not available. Melting point/freezing point Not available. Not available. Initial boiling point and boiling

Material name: Moxidectin 0.5% Pour-On

range

65.5 °C (149.9 °F) Closed cup Flash point

Evaporation rate Not available. Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) 1.8 % 12.6 % Explosive limit - upper

(%)

Not available. Vapour pressure Not available. Vapour density Not available. Relative density

Solubility(ies)

Solubility (water) Immiscible Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available. **Decomposition temperature** Not available. Kinematic viscosity Not available.

Other physical and chemical parameters

Explosive properties Not explosive. Oxidising properties Not oxidising.

Specific gravity 0.92

26 cps @ 20C/68F Viscosity

Section 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 Contact with incompatible materials. Sunlight. High temperatures. Keep away from heat, hot

surfaces, sparks, open flames and other ignition sources.

Incompatible materials

Hazardous decomposition

products

Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

Section 11: Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Causes skin irritation. Skin contact

Moxidectin Species: Rabbit Severity: Mild

Eye contact Direct contact with eyes may cause temporary irritation.

Strong oxidising agents.

Moxidectin Species: Rabbit Severity: Moderate

Ingestion May be harmful if swallowed. However, ingestion is not likely to be a primary route of

occupational exposure.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation. Exposed individuals may experience eye tearing, redness, and discomfort. Causes skin irritation. Signs and symptoms might include skin rash, itching, redness or swelling. Prolonged exposure may cause chronic effects. Adverse effects associated with therapeutic use include clumsy motion of limbs/trunk (ataxia), drowsiness, depression, salivation.

Information on toxicological effects

Acute toxicity May be harmful if swallowed.

Components **Test Results**

Butylated hydroxyanisole (CAS 25013-16-5)

Acute

Intraperitoneal

LD50 Rat 881 mg/kg

Material name: Moxidectin 0.5% Pour-On SDS NEW ZEALAND Version #: 01 Issue date: 04-March-2024 4/8

Test Results Components **Species** Oral LD50 1100 mg/kg Mouse Rat 2000 mg/kg Chronic Oral LOAEL Rat 3300 mg/kg, 12 days Liver Blood Moxidectin (CAS 113507-06-5) <u>Acute</u> Dermal LD50 Rat > 2000 mg/kg Oral LD50 Rat 106 mg/kg **Chronic** Oral NOEL 30 mg/kg/day, 2 years (Not carcinogenic) Mouse 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) Skin corrosion/irritation Causes skin irritation. Corrosivity Moxidectin Species: Rabbit Severity: Mild Due to partial or complete lack of data the classification is not possible. Direct contact with eyes Serious eye damage/eye irritation may cause temporary irritation. Eye contact Moxidectin Species: Rabbit Severity: Moderate Not available. Respiratory irritation Respiratory or skin sensitisation Respiratory sensitisation Due to partial or complete lack of data the classification is not possible. Skin sensitisation Based on available data, the classification criteria are not met. Skin Sensitisation Moxidectin Species: Guinea Pig Severity: Negative Germ cell mutagenicity Based on available data, the classification criteria are not met. Mutagenicity Moxidectin In Vitro Bacterial Mutagenicity (Ames) Result: Negative Species: Salmonella, E. coli Butylated hydroxyanisole In Vitro Bacterial Mutagenicity (Ames) Result: Negative Species: Salmonella In Vitro HGPRT Forward Gene Mutation Assay Moxidectin Result: Negative Species: Chinese Hamster Ovary (CHO) cells

Mutagenicity

Moxidectin In Vivo Cytogenetics

Result: Negative

Species: Rat Bone Marrow

Butylated hydroxyanisole In Vivo Micronucleus

Result: Negative Species: Bone marrow

In Vivo Unscheduled DNA Synthesis Moxidectin

Result: Negative

Species: Rat Hepatocyte

Based on available data, the classification criteria are not met. None of the components present in Carcinogenicity

this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA, or

ACGIH as a carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Butylated hydroxyanisole (CAS 25013-16-5)

Petroleum solvent naphtha, light aromatic

(CAS 64742-95-6)

2B Possibly carcinogenic to humans.

3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity Based on available data, the classification criteria are not met.

Developmental effects

1 mg/kg/day Embryo / Fetal Development, (Maternal toxicity, Moxidectin

Not teratogenic) Result: NOEL Species: Rabbit Organ: Oral route

Butylated hydroxyanisole 30 g/kg Embryo / Fetal Development, teratogenic

Result: LOEL Species: Rat Organ: Oral

Moxidectin 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

Specific target organ toxicity -

single exposure

Based on available data, the classification criteria are not met.

Specific target organ toxicity -

repeated exposure

Based on available data, the classification criteria are not met. This product may affect

Nervous system. through prolonged or repeated exposure.

Aspiration hazard Based on available data, the classification criteria are not met.

Due to lack of data the classification is not possible. Narcotic effects

Chronic effects Prolonged exposure may cause chronic effects. May cause central nervous system

effects.

Section 12: Ecological information

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

Components **Test Results** Species Moxidectin (CAS 113507-06-5) Aquatic Algae ErC50 Green algae (Selenastrum > 87 ppb, 72 Hours capricornutum) EC50 Crustacea 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

No data available for this product. The following information is available for the individual Persistence and degradability

ingredients.

Material name: Moxidectin 0.5% Pour-On SDS NEW ZEALAND Version #: 01 Issue date: 04-March-2024

Biodegradability

Percent Degradation (Aerobic Biodegradation)

Moxidectin Soil DT50, ca. 2 months @ 25°C / 77°F

Bioaccumulative potential No data available for this product. The following information is available for the individual

ingredients.

Partition coefficient n-octanol / water (log Kow)

4.77, @ 25°C / 77°F Moxidectin

Mobility in soil No data available for this product. The following information is available for the individual

ingredients.

Adsorption

Soil/Sediment Sorption - Log Koc

Moxidectin 4.3 - 4.6

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects

potential, endocrine disruption, global warming potential) are expected from this component.

Section 13: Disposal considerations

Disposal methods Avoid release to the environment. Do not discharge into drains, water courses or onto the ground.

> Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. 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.

Dispose of in accordance with local regulations. Empty containers or liners may retain some Residual waste

Dispose in accordance with all applicable regulations.

product residues. This material and its container must be disposed of in a safe manner.

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

emptied.

Special precautions to be

taken during disposal

Method of disposal that should

not be used

None known.

Section 14: Transport information

IATA

UN3082 **UN** number

UN proper shipping name Transport hazard class(es) Environmentally hazardous substances, liquid, n.o.s. (Moxidectin)

9 Class Subsidiary hazard Ш Packing group **Environmental hazards** Yes

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN3082 UN number

UN proper shipping name Transport hazard class(es) Environmentally hazardous substances, liquid, n.o.s. (Moxidectin), MARINE POLLUTANT

Class 9 Subsidiary hazard Ш Packing group

Environmental hazards

Marine pollutant

Yes F-A.S-F

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

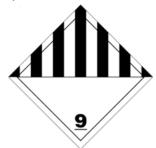
Transport in bulk according to Annex II of MARPOL 73/78 and Not established.

the IBC Code

Material name: Moxidectin 0.5% Pour-On SDS NEW ZEALAND 7/8

Version #: 01 Issue date: 04-March-2024

IATA; IMDG



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.

Section 15: Regulatory information

Applicable regulations Registered pursuant to the ACVM Act 1997, No. A6203.

See www.foodsafety.govt.nz for registration conditions. Approved pursuant to the HSNO Act 1996, No. HSR100759.

See www.epa.govt.nz for approval controls.

New Zealand Inventory of Chemicals (NZIoC): Registration status

Butene, homopolymer (CAS 9003-29-6) Does not have individual approval but may be used under an

appropriate group standard

Butylated hydroxyanisole (CAS 25013-16-5) Does not have individual approval but may be used under an

appropriate group standard

Moxidectin (CAS 113507-06-5) **HSNO** Approved

Does not have individual approval but may be used under an Petroleum solvent naphtha, light aromatic (CAS 64742-95-6)

appropriate group standard

Section 16: Other information

04-March-2024 Issue date

Version No.

Key abbreviations or acronyms Not available.

used

Zoetis Inc. believes that the information contained in this Safety Data Sheet is accurate, and while Disclaimer

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 Product and Company Identification: Synonyms

Composition / Information on Ingredients: Ingredients Transport Information: Proper Shipping Name/Packing Group

GHS: Classification

Material name: Moxidectin 0.5% Pour-On Version #: 01 Issue date: 04-March-2024