

# SAFETY DATA SHEET



## Advocate for Cats

Version 1.0      Revision Date: 19.06.2020      SDS Number: 122000001555      Date of last issue: -  
Date of first issue: 19.06.2020

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### Section 1: Identification

#### 1.1 Product identifier

Advocate for Cats

HSNO Approval Number : HSR000060

ACVM number : A009118

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-stance/Mixture : veterinary medicine

#### 1.3 Details of the supplier of the safety data sheet

##### Company

Elanco New Zealand  
88 Shortland Street  
1010 AUCKLAND  
NEW ZEALAND  
+64 0800 352 626  
elanco\_sds@elancoah.com

#### 1.4 Emergency telephone number

**In case of emergency:** CHEMTREC International: +1 703-527-3887 (24 hours)  
or +64-98010034 (local)

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### Section 2: Hazard identification

#### GHS Classification

Acute toxicity (Dermal) : 6.1E  
Acute toxicity (Inhalation) : 6.1D  
Acute toxicity (Oral) : 6.1D  
Eye irritation : 6.4A  
Skin sensitisation : 6.5B  
Toxic to Reproduction : 6.8C  
Specific Target Organ Toxicity : 6.9A  
Aquatic toxicity (Acute or Chronic) : 9.1A  
Ecotoxic to soil environment : 9.2C

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Ecotoxic to terrestrial vertebrates : 9.3B

Ecotoxic to terrestrial invertebrates : 9.4A

### GHS label elements

Hazard pictograms :

Signal word : Danger

Hazard statements : H302 Harmful if swallowed.  
H332 Harmful if inhaled.  
H313 May be harmful in contact with skin.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H362 May cause harm to breast-fed children.  
H372 Causes damage to organs through prolonged or repeated exposure.  
H410 Very toxic to aquatic life with long lasting effects.  
H423 Harmful to the soil environment.  
H432 Toxic to terrestrial vertebrates.  
H441 Very toxic to terrestrial invertebrates.

Precautionary statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P272 Contaminated work clothing should not be allowed out of the workplace.

### Other hazards which do not result in classification

None known.

## Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
Benzyl alcohol	100-51-6	>= 70 -< 90
Propylene carbonate	108-32-7	>= 10 -< 20
Imidacloprid	138261-41-3	>= 2,5 -<= 10
Moxidectin	113507-06-5	>= 0,25 -<= 1

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### Section 4: First-aid measures

- General advice : Take off all contaminated clothing immediately.
- You should call the National Poisons Centre if you feel that you may have been harmed or irritated by this product. The number is 0800 764 766 (0800 POISON) (24hr emergency service).
- If inhaled : Remove to fresh air.  
Call a physician immediately.
- In case of skin contact : After contact with skin, wash immediately with plenty of soap and water.  
If skin reactions occur, contact a physician.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- If swallowed : If swallowed, seek medical advice immediately and show this container or label.
- Most important symptoms and effects, both acute and delayed : No information available.
- Notes to physician : No information available.
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### Section 5: Fire-fighting measures

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire-fighting : Fire may cause evolution of:  
Hydrogen cyanide (hydrocyanic acid)  
Hydrogen chloride gas  
Nitrogen oxides (NOx)  
Carbon oxides
- Specific extinguishing methods : Prevent fire extinguishing water from contaminating surface water or the ground water system.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
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### Section 6: Accidental release measures

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Use with adequate ventilation.  
No special precautions required.
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- Environmental precautions : Do not flush into surface water or sanitary sewer system.
- Methods and materials for containment and cleaning up : Suppress (knock down) gases/vapours/mists with a water spray jet.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Place in closed containers. Label for proper disposal.

### Section 7: Handling and storage

- Advice on protection against fire and explosion : No special protective measures against fire required.
- Advice on safe handling : Industrial uses:  
Avoid formation of aerosol.  
Use with local exhaust ventilation.  
Avoid contact with skin, eyes and clothing.
- Hygiene measures : Cleanliness Guidelines (GMP) for manufacturing of drugs must be observed!
- Conditions for safe storage : For storage suitable stores with adequate product-reception volume must be used.  
During handling local official regulations must be observed in order to avert impairment of water by the product.

### Section 8: Exposure controls/personal protection

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Imidacloprid	138261-41-3	Bayer OES	0,7 mg/m <sup>3</sup>	TRGS901

#### Personal protective equipment

- Respiratory protection : Recommended respiratory protection: full mask with filter ABEK-ST (ABEK-P3)
- Hand protection  
Material : Hand protection: protective gloves for chemicals made of Baypren, nitrile rubber or PVC wear
- Remarks : Breakthrough time not tested; dispose of immediately after contamination. Advice: The gloves should not be reused.
- Eye protection : Safety glasses
- Protective measures : No special safety precautions are required during handling of pharmaceuticals in their intended finished form (tablets or liquid formulations) by chemists, the hospital's medical staff or patients.

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For the intake of ready for use pharmaceuticals or the external use on the skin please read the label and the package leaflet.

The personal protective equipment is applicable for the handling of bulk material without packaging and for incidents if an exposure by the active ingredient or hazardous components can be expected.

Wear suitable protective equipment.

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### Section 9: Physical and chemical properties

Appearance	: liquid
Colour	: yellow, brownish, clear
Odour	: weak, characteristic
Flash point	: > 100 °C
Density	: 1,098 g/cm <sup>3</sup> (20 °C)
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Impact sensitivity	: No data available
Minimum ignition energy	: No data available

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### Section 10: Stability and reactivity

Reactivity	: No data available
Chemical stability	: No data available
Possibility of hazardous reactions	: Exothermic polycondensation, accompanied by setting-free of water, may occur in the presence of acids and dissolved iron, zinc or aluminium.
Conditions to avoid	: Do not allow product to come in contact with: Heat
Incompatible materials	: Oxidizing agents
Hazardous decomposition products	: Hydrogen cyanide (hydrocyanic acid) Hydrogen chloride gas Nitrogen oxides (NO <sub>x</sub> ) Carbon oxides

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### Section 11: Toxicological information

#### Acute toxicity

##### **Product:**

- Acute oral toxicity : Acute toxicity estimate (ATE): 313,19 mg/kg  
Method: Calculation method
- Acute dermal toxicity : Acute toxicity estimate (ATE): 1.470 mg/kg  
Method: Calculation method

##### **Components:**

##### **Benzyl alcohol:**

- Acute oral toxicity : LD50 (Rat, male): 1.620 mg/kg  
Assessment: The component/mixture is moderately toxic after single ingestion.
- Acute inhalation toxicity : Assessment: The component/mixture is moderately toxic after short term inhalation.

##### **Propylene carbonate:**

- Acute oral toxicity : LD50 (Rat): 32.100 mg/kg  
Assessment: No adverse effect has been observed in acute toxicity tests.
- Acute inhalation toxicity : Exposure time: 8 h  
Assessment: No adverse effect has been observed in acute toxicity tests.  
Remarks: An LC50/inhalation/8h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.
- Acute dermal toxicity : LD50 (Rabbit): > 20.000 mg/kg  
Assessment: No adverse effect has been observed in acute toxicity tests.

##### **Imidacloprid:**

- Acute oral toxicity : LD50 (Rat): 424 mg/kg  
Method: OECD 401
- Acute inhalation toxicity : LC50 (Rat): > 5,323 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist/aerosol  
Method: OECD 403
- Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg

##### **Moxidectin:**

- Acute oral toxicity : LD50 (Rat): 106 mg/kg

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Assessment: The component/mixture is toxic after single ingestion.

Acute inhalation toxicity : LC50 (Rat): 4,1 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist/aerosol  
Method: Calculation method  
Assessment: The component/mixture is moderately toxic after short term inhalation.

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg  
Assessment: The component/mixture is minimally toxic after single contact with skin.

Acute toxicity (other routes of administration) : LD50 (Rat): 394 mg/kg  
Application Route: Intraperitoneal

LD50 (Rat): > 640 mg/kg  
Application Route: Subcutaneous

### Skin corrosion/irritation

#### Components:

##### **Benzyl alcohol:**

Species : Rabbit  
Method : OECD 404  
Result : No skin irritation

##### **Propylene carbonate:**

Species : Rabbit  
Method : OECD 404  
Result : No skin irritation

##### **Imidacloprid:**

Species : Rabbit  
Result : No skin irritation

##### **Moxidectin:**

Result : Moderate skin irritation

### Serious eye damage/eye irritation

#### Components:

##### **Benzyl alcohol:**

Species : Rabbit  
Result : Irritation to eyes, reversing within 7 days  
Method : OECD 405

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### **Propylene carbonate:**

Species : Rabbit  
Result : Eye irritation  
Method : OECD 405

### **Imidacloprid:**

Species : Rabbit  
Result : No eye irritation

### **Respiratory or skin sensitisation**

#### **Components:**

#### **Benzyl alcohol:**

Species : Guinea pig  
Method : Magnusson and Kligmann maximization test  
Result : Did not cause sensitisation on laboratory animals.

#### **Propylene carbonate:**

Result : Does not cause skin sensitisation.

#### **Imidacloprid:**

Test Type : Skin sensitisation  
Species : Guinea pig  
Method : Magnusson and Kligmann maximization test  
Result : Did not cause sensitisation on laboratory animals.

### **Chronic toxicity**

#### **Germ cell mutagenicity**

#### **Components:**

#### **Benzyl alcohol:**

Genotoxicity in vitro : Test Type: Ames test  
Result: negative

Genotoxicity in vivo : Result: No indication of mutagenic effects.

#### **Propylene carbonate:**

Genotoxicity in vivo : Result: No indication of mutagenic effects.

#### **Imidacloprid:**

Genotoxicity in vitro : Test Type: Ames test  
Result: negative

Remarks: In vitro tests did not show mutagenic effects

Genotoxicity in vivo : Result: No indication of mutagenic effects., No evidence of a genotoxic effect.



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### **Carcinogenicity**

#### **Components:**

##### **Imidacloprid:**

Result : Animal testing did not show any carcinogenic effects.

### **Reproductive toxicity**

#### **Components:**

##### **Imidacloprid:**

##### **Moxidectin:**

Reproductive toxicity - Assessment : No toxicity to reproduction

### **STOT - single exposure**

#### **Components:**

##### **Benzyl alcohol:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

### **STOT - repeated exposure**

#### **Components:**

##### **Benzyl alcohol:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

##### **Imidacloprid:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### **Repeated dose toxicity**

#### **Components:**

##### **Benzyl alcohol:**

Species : Rat  
NOAEL : 400 mg/kg  
Exposure time : 90-day

### **Further information**

#### **Components:**

##### **Benzyl alcohol:**

Remarks : Dermal absorption possible

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- Remarks : If inhaled:  
irritations  
Shortness of breath  
Cough
- Remarks : If swallowed  
Vomiting  
Nausea  
Irritation of mucous membranes in the mouth, throat, gullet  
and gastro-intestinal tract after swallowing.
- Remarks : Systemic toxicity  
Headache  
Nausea  
CNS disorders  
Ataxia (uncontrolled movements)  
Unconsciousness  
cessation of breathing

### **Imidacloprid:**

Pharmaceutic effects

Remarks : Insecticide

### **Moxidectin:**

Pharmaceutic effects

Remarks : Anthelmintics  
Antiparasitic agent

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## Section 12: Ecological information

### **Ecotoxicity**

#### **Product:**

#### **Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

#### **Components:**

#### **Benzyl alcohol:**

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 10 mg/l  
Exposure time: 96 h  
Test Type: Acute Fish toxicity

Toxicity to microorganisms : EC50 (Photobacterium phosphoreum): 71,4 mg/l  
Exposure time: 0,5 h

#### **Ecotoxicology Assessment**

Acute aquatic toxicity : Toxic to aquatic life.

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### Propylene carbonate:

- Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): ca. 5.300 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: DIN 38412
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 500 mg/l  
Exposure time: 48 h  
Test Type: static test
- Toxicity to microorganisms : EC20 (Activated sludge micro-organism): > 800 mg/l  
Exposure time: 0,5 h  
Method: ISO 8192

### Ecotoxicology Assessment

- Acute aquatic toxicity : slightly hazardous to water

### Imidacloprid:

- Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 237 mg/l  
Exposure time: 96 h  
Test Type: Acute Fish toxicity
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 85 mg/l  
Exposure time: 48 h
- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 72 h  
EC50 (Desmodesmus subspicatus (green algae)): > 10 mg/l  
Exposure time: 72 h
- Toxicity to microorganisms : EC50 (Activated sludge micro-organism): > 10.000 mg/l  
Method: OECD 209

### Moxidectin:

#### Ecotoxicology Assessment

- Acute aquatic toxicity : Very toxic to aquatic life.
- Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

### Persistence and degradability

#### Components:

##### Benzyl alcohol:

- Biodegradability : Result: rapidly biodegradable  
Biodegradation: 92 - 96 %  
Exposure time: 28 d  
Method: OECD 301 C

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### Propylene carbonate:

Biodegradability : Result: rapidly biodegradable

BOD/ThOD : 86 %

Dissolved organic carbon (DOC) : 90 - 100 %  
Method: ISO 7827

### Imidacloprid:

Stability in water : Degradation half life: > 1 a (25 °C) pH: 4  
Hydrolysis: at25 °C

Degradation half life: > 1 a (25 °C) pH: 7  
Hydrolysis: at25 °C

Degradation half life: ca. 1 h (25 °C) pH: 9  
Hydrolysis: at25 °C

### Moxidectin:

Stability in water : Degradation half life: 180 d

### Bioaccumulative potential

#### Components:

#### **Benzyl alcohol:**

Partition coefficient: n-octanol/water : log Pow: 1,05

#### **Propylene carbonate:**

Bioaccumulation : Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

Partition coefficient: n-octanol/water : log Pow: -0,48 (25 °C)

#### **Imidacloprid:**

Bioaccumulation : Remarks: Low potential for bioaccumulation

Partition coefficient: n-octanol/water : log Pow: 0,57 (21 °C)  
Method: OECD 107

### Mobility in soil

No data available

### Other adverse effects

#### Product:

Additional ecological information : Do not allow to enter surface waters or groundwater.

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### Components:

#### **Propylene carbonate:**

Adsorbed organic bound halogens (AOX) : Remarks: Product does not contain any organic halogens.

#### **Imidacloprid:**

Adsorbed organic bound halogens (AOX) : Remarks: The product contains organic halogens.

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### **Section 13: Disposal considerations**

#### **Disposal methods**

Waste from residues : Dispose of as hazardous waste in compliance with local and national regulations.

Contaminated packaging : Contaminated, empty containers are to be treated in the same way as the contents.

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### **Section 14: Transport information**

#### **IATA-DGR**

UN/ID No. : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (MOXIDECTIN)  
Class : 9  
Packing group : III  
Labels : 9  
Environmentally hazardous : yes

#### **IMDG-Code**

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (MOXIDECTIN)  
Class : 9  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
Marine pollutant : yes

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

Not applicable for product as supplied.

#### **Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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## Section 15: Regulatory information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

No statements available.

### HSNO Approval Number

HSR000060

### HSW Controls

Approved handler certificate required

HSNO tracking required

Refer to EPA user guide to the HSNO control regulations for further information.

Montreal Protocol (Ozone Depleting Substances) : Not applicable

Rotterdam Convention (Prior Informed Consent) : Not applicable

Stockholm Convention (Persistent Organic Pollutants) : Not applicable

### The components of this product are reported in the following inventories:

NZIoC : On the inventory, or in compliance with the inventory

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## Section 16: Other information

Date format : dd.mm.yyyy

### Full text of other abbreviations

TRGS901 : TRGS 901, Explanations and Basis for Exposure Limits in the Workplace Air

TRGS901 / Bayer OES : BOES = Bayer Occupational Exposure Standard

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect

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Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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