### **SAFETY DATA SHEETS**

# This SDS packet was issued with item: 078944122

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

078941373 078941374 078941375 078941376 078941377 078941378 078941379 078941380 078944123 078944124 078944126 078944128 078944130 078944131 078944132



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SECTION 1. IDENTIFICATION						
Brod	uct information					

Product information	
Product Name	: Advantage multi Spot On
Synonyms	: Advantage multi for Cats or Dogs
SDS Number	: 122000001555

#### Use

: veterinary medicine

Company Elanco Animal Health 2500 Innovation Way Greenfield, IN 46140 USA +1-877-Elanco1(+1-877-3526261) elanco\_sds@elanco.com

In case of emergency: CHEMTREC International: +1 703-527-3887 (24 hours)

### **SECTION 2. HAZARDS IDENTIFICATION**

### GHS classification in accordance with 29 CFR 1910.1200

Acute toxicity (Oral) :	Category 4
Acute toxicity (Inhalation) :	Category 4
Eye irritation :	Category 2A
GHS label elements	
Hazard pictograms :	
Signal word :	Warning
Hazard statements :	H302 + H332 Harmful if swallowed or if inhaled. H319 Causes serious eye irritation.
Precautionary statements :	<b>Prevention:</b> P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protec- tion/face protection.
	<b>Response:</b> P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.



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### Other hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Benzyl alcohol	100-51-6	74,86
Propylene carbonate	108-32-7	15,0299
Imidacloprid	138261-41-3	9,11
Moxidectin	113507-06-5	0,91

### **SECTION 4. FIRST AID MEASURES**

General advice	:	No hazards which require special first aid measures.
If inhaled In case of skin contact In case of eye contact If swallowed		Not an expected entry route. If skin reactions occur, contact a physician. Flush eyes with water as a precaution. In case of accidental ingestion, contact your regional poison center or physician immediately.
Most important symptoms and effects, both acute and delayed	:	No information available.
Notes to physician	:	No information available.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media Unsuitable extinguishing media		Use water spray, alcohol-resistant foam, dry chemical or car- bon dioxide. 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
Further information Special protective equipment for firefighters		Prevent fire extinguishing water from contaminating surface water or the ground water system. In the event of fire, wear self-contained breathing apparatus.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protec- : tive equipment and emer- gency procedures	:	Use personal protective equipment. Use with adequate ventilation. No special precautions required.	
Methods and materials for : containment and cleaning up	:	Suppress (knock down) gases/vapours/mists with a water spray jet.	



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			acid binder, unive	t absorbent material (e.g. sand, silica gel, ersal binder, sawdust). ontainers. Label for proper disposal.
SECTIO	ON 7. HANDLING AND ST	OR	AGE	
	vice on protection against and explosion	:	No special protec	tive measures against fire required.
Ad	vice on safe handling	:	Industrial uses: Avoid formation c Use with local ex Avoid contact wit	
	commended storage tem- rature	:		

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Benzyl alcohol	100-51-6	TWA	10 ppm	US WEEL
		TWA	10 ppm	US WEEL
Imidacloprid	138261-41-3	Bayer OES	0,7 mg/m³	TRGS901

#### Personal protective equipment

Respiratory protection	:	Recommended Filter type: Organic vapor with prefilter None required for consumer use of this product.
Hand protection Material	:	Chemically resistant gloves.
Remarks	:	None required for consumer use of this product.
Eye protection	:	Safety glasses None required for consumer use of this product.
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.
		For the intake of ready for use pharmaceuticals or the exter- nal use on the skin please read the label and the package leaflet.
		Wear suitable protective equipment. Please consult label for end-user requirements.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: yellow, brownish, clear
Odour	: weak, characteristic
Flash point	: > 212 °F / > 100 °C



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Densit Auto-i Decor Explos Oxidiz	gnition temperature nposition temperature sive properties ing properties	:	1,098 g/cm³ (68 No data availabl No data availabl No data availabl No data availabl	°F / 20 °C) e e e e
·	t sensitivity	:	No data availabl	-
Minim	um ignition energy		no data avalladi	e

### SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	: :	No data available No data available 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	:	Hydrogen cyanide (hydrocyanic acid)
products		Hydrogen chloride gas
		Nitrogen oxides (NOx)
		Carbon oxides

### SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity		
Product:		
Acute oral toxicity	:	Acute toxicity estimate (ATE): 1.311 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate (ATE): 1,94 mg/l Exposure time: 4 h Test atmosphere: dust/mist/aerosol Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate (ATE): 3.340 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.

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	Acute i	nhalation toxicity	:	Assessment: The short term inhalati	component/mixture is moderately toxic after on.
		ene carbonate: oral toxicity	:	LD50 (Rat): 32.10 Assessment: No a toxicity tests.	0 mg/kg adverse effect has been observed in acute
	Acute i	nhalation toxicity	:	toxicity tests. Remarks: An LC5	adverse effect has been observed in acute 0/inhalation/8h/rat could not be determined lity of rats was observed at the maximum
	Acute o	lermal toxicity	:	LD50 (Rabbit): > 2 Assessment: No a toxicity tests.	20.000 mg/kg adverse effect has been observed in acute
	Imidac	loprid:			
		oral toxicity	:	LD50 (Rat): 424 m Method: OECD 40	
	Acute i	nhalation toxicity	:	LC50 (Rat): > 5,32 Exposure time: 4 Test atmosphere: Method: OECD 40	h dust/mist/aerosol
	Acute o	lermal toxicity	:	LD50 (Rat): > 5.00	00 mg/kg
	Moxide	ectin:			
	Acute c	oral toxicity	:	LD50 (Rat): 106 m Assessment: The gestion.	ng/kg component/mixture is toxic after single in-
	Acute i	nhalation toxicity	:	LC50 (Rat): 4,1 m Exposure time: 4 Test atmosphere: Method: Calculation Assessment: The short term inhalation	h dust/mist/aerosol on method component/mixture is moderately toxic after
	Acute c	lermal toxicity	:	LD50 (Rabbit): > 2 Assessment: The single contact with	component/mixture is minimally toxic after
		oxicity (other routes of stration)	:	LD50 (Rat): 394 m Application Route	
				LD50 (Rat): > 640 Application Route	



/ersion .0	Revision Date: 06/19/2020	SDS Number: 122000001555	Date of last issue: - Date of first issue: 19.06.2020
Skin	corrosion/irritation		
Comp	oonents:		
Benz	yl alcohol:		
Speci	es	: Rabbit	
Metho		: OECD 404	
Resul	t	: No skin irritatior	1
Propy	/lene carbonate:		
Speci	es	: Rabbit	
Metho		: OECD 404	
Resul	t	: No skin irritatior	1
Imida	cloprid:		
Speci	-	: Rabbit	
Resul		: No skin irritation	1
Moxio	dectin:		
Resul	t	: Moderate skin ir	rritation
	oonents:		
-	yl alcohol:		
Speci		: Rabbit	
Resul			s, reversing within 7 days
Metho	ba	: OECD 405	
Propy	/lene carbonate:		
Speci	es	: Rabbit	
Resul		: Eye irritation	
Metho	bd	: OECD 405	
Imida	cloprid:		
Speci		: Rabbit	
Resul	t	: No eye irritation	
Resp	iratory or skin sensi	tisation	
<u>Comp</u>	oonents:		
	yl alcohol:		
Speci		: Guinea pig	
Metho Resul			l Kligmann maximization test ensitisation on laboratory animals.
Nesul	ι	. Dia not cause si	ອກຈາເຈລເເບກ ບກ ເລຍບາລເບເງ ສີເຫັນເລເວັ.
	/lene carbonate:	_	
Resul	t	: Does not cause	skin sensitisation.
		6 / 14	



Ver 1.0	sion	Revisio 06/19/2	on Date: 2020		9S Number: 2000001555	Date of last issue: - Date of first issue: 19.06.2020
	Imidao Test Ty Specie Methoo Result	es d		:		(ligmann maximization test isitisation on laboratory animals.
			agenicity			
	<u>Comp</u>	onents:				
	-	<b>I alcohc</b> oxicity in		:	Test Type: Ames Result: negative	test
	Genote	oxicity in	vivo	:	Result: No indicat	ion of mutagenic effects.
		<b>lene car</b> oxicity in	<b>bonate:</b> vivo	:	Result: No indicat	ion of mutagenic effects.
	Imidad	cloprid:				
	Genoto	oxicity in	vitro	:	Test Type: Ames Result: negative	test
					Remarks: In vitro	tests did not show mutagenic effects
	Genoto	oxicity in	vivo	:	Result: No indicat genotoxic effect.	ion of mutagenic effects., No evidence of a
	Carcin	ogenici	ty			
	Comp	onents:				
	<b>Imidac</b> Result	cloprid:		:	Animal testing did	not show any carcinogenic effects.
	IARC					nt at levels greater than or equal to 0.1% is onfirmed human carcinogen by IARC.
	OSHA				this product preser regulated carcinog	nt at levels greater than or equal to 0.1% is ens.
	NTP					nt at levels greater than or equal to 0.1% is carcinogen by NTP.
	Repro	ductive	toxicity			
	<u>Comp</u>	onents:				
	Imidad	cloprid:				
	Moxid	ectin:				



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	Reproductive toxicity - As- sessment		: No toxicity to reproduction						
ST	OT - single exposure								
Co	mponents:								
	nzyl alcohol: sessment	:	The substance or organ toxicant, si	mixture is not classified as specific target ngle exposure.					
ST	OT - repeated exposure								
Co	mponents:								
	nzyl alcohol: Bessment	:	The substance or organ toxicant, re	mixture is not classified as specific target peated exposure.					
	dacloprid: sessment	:	The substance or organ toxicant, re	mixture is not classified as specific target peated exposure.					
Rej	peated dose toxicity								
Co	mponents:								
Bei	nzyl alcohol:								
NO	ecies AEL posure time	::	Rat 400 mg/kg 90-day						
Fur	ther information								
Co	mponents:								
Bei	nzyl alcohol:								
Rer	marks	:	Dermal absorption	n possible					
Rer	marks	:	If inhaled: irritations Shortness of brea Cough	ith					
Rei	narks	:		us membranes in the mouth, throat, gullet nal tract after swallowing.					
Rer	narks	:	Systemic toxicity Headache Nausea CNS disorders						



Versio 1.0	on	Revision Date: 06/19/2020		0S Number: 2000001555	Date of last issue: - Date of first issue: 19.06.2020
				Ataxia (uncontroll Unconsciousness cessation of breat	
F		<b>loprid:</b> aceutic effects ks	:	Insecticide	
F	<b>Moxide</b> Pharma Remar	aceutic effects	:	Anthelmintics Antiparasitic ager	ıt
SECT	TION 1	2. ECOLOGICAL INFO	DRN	ATION	
E	Ecoto	cicity			
Ē	Produc	ot:			
		<b>vicology Assessment</b>	:	Very toxic to aqua	atic life.
(	Chronie	c aquatic toxicity	:	Very toxic to aqua	tic life with long lasting effects.
<u>(</u>	Compo	onents:			
E	Benzy	alcohol:			
٦	Toxicity	/ to fish	:	LC50 (Lepomis m Exposure time: 96 Test Type: Acute	

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

Acute aquatic toxicity	:	Toxic to aquatic life.
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



/ersion I.0	Revision Date: 06/19/2020		)S Number: 2000001555	Date of last issue: - Date of first issue: 19.06.2020
	exicology Assessment	:	slightly hazarde	ous to water
Imida	cloprid:			
Toxic	ity to fish	:	LC50 (Leucisco Exposure time: Test Type: Acu	
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia Exposure time:	a magna (Water flea)): 85 mg/l 48 h
Toxic plants	ity to algae/aquatic	:	EC50 (Pseudo mg/l Exposure time:	kirchneriella subcapitata (green algae)): > 100 72 h
			EC50 (Desmoo Exposure time:	lesmus subspicatus (green algae)): > 10 mg/l 72 h
Toxic	ity to microorganisms	:	EC50 (Activate Method: OECE	d sludge micro-organism): > 10.000 mg/l ) 209
Moxie	dectin:			
	exicology Assessment	:	Very toxic to a	quatic life.
Chror	nic aquatic toxicity	:	Very toxic to a	quatic life with long lasting effects.
Persi	stence and degradabili	ity		
<u>Com</u>	oonents:			
	<b>yl alcohol:</b> gradability	:	Result: rapidly Biodegradatior Exposure time: Method: OECE	: 92 - 96 % 28 d
	ylene carbonate:			
Biode	gradability		Result: rapidly	biodegradable
BOD/	ThOD	:	86 %	
Disso (DOC	lved organic carbon ;)	:	90 - 100 % Method: ISO 7	827
	icloprid: ity in water	:	Degradation ha Hydrolysis: at2	alf life: > 1 a (25 °C) pH: 4 25 °C



rsion )	Revision Date: 06/19/2020		)S Number: 2000001555	Date of last issue: - Date of first issue: 19.06.2020
			Degradation half Hydrolysis: at25	life: > 1 a (25 °C) pH: 7 °C
			Degradation half Hydrolysis: at25	life: ca. 1 h (25 °C) pH: 9 °C
Moxi	dectin:			
Stabil	ity in water	:	Degradation half	life: 180 d
Bioad	cumulative potential			
<u>Com</u>	oonents:			
Benz	yl alcohol:			
	on coefficient: n- ol/water	:	log Pow: 1,05	
	/lene carbonate:			
Bioac	cumulation	:		<ul> <li>the distribution coefficient n-octanol/wa organisms is not expected.</li> </ul>
	on coefficient: n- ol/water	:	log Pow: -0,48 (7	77 °F / 25 °C)
Imida	cloprid:			
Bioac	cumulation	:	Remarks: Low po	otential for bioaccumulation
	on coefficient: n- ol/water	:	log Pow: 0,57 (7) Method: OECD 1	
	l <b>ity in soil</b> Ita available			
Othe	adverse effects			
<u>Produ</u> Additi matio	onal ecological infor-	:	Do not allow to e	nter surface waters or groundwater.
<u>Com</u>	oonents:			
Prop	/lene carbonate:			
Adsor	, bed organic bound ens (AOX)	:	Remarks: Produc	ct does not contain any organic halogen
Imida	cloprid:			
	bed organic bound ens (AOX)	:	Remarks: The pr	oduct contains organic halogens.

 Disposal methods

 Waste from residues
 :

 If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic.



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		user to deterr containing the	However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)	
SECTION	14. TRANSPORT INFO	ORMATION		
Intern	ational Regulations			
<b>IATA-</b> UN/ID Prope		: UN 3082 : ENVIRONME N.O.S.	NTALLY HAZARDOUS SUBSTANCE, LIQUID,	
Labels	ng group s onmentally hazardous	(MOXIDECT : 9 : III : 9 : yes	IN)	
UN nu	<b>-Code</b> ımber r shipping name	: UN 3082 : ENVIRONME N.O.S. (MOXIDECTI	NTALLY HAZARDOUS SUBSTANCE, LIQUID,	
Labels EmS (		: 9 : III : 9 : F-A, S-F : yes		

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

Not applicable for product as supplied.

#### **National Regulations**

#### 49 CFR

Not regulated as a dangerous good

#### 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.

#### **SECTION 15. REGULATORY INFORMATION**

#### EPCRA - Emergency Planning and Community Right-to-Know Act

#### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.



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SARA	A 311/312 Hazards	: Immediate Hea Acute Health H				
SARA	A 313	known CAS nu	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.			
US St	ate Regulations					
Mass	achusetts Right To K Benzyl alcohol	now	100-51-6			
Penn	<b>sylvania Right To Kn</b> Benzyl alcohol	ow	100-51-6			
New `	New York City Hazardous Substances2,6-Di-tert-butyl-p-cresol128-37-0					
International Regulations						
	Montreal Protocol (Ozone Depleting Substances) : Not applicable					
Rotter	Rotterdam Convention (Prior Informed Consent) : Not applicable					
Stock	Stockholm Convention (Persistent Organic Pollutants) : Not applicable					
The components of this product are reported in the following inventories:TSCA: Substance(s) not listed on TSCA inventory						
<b>TSCA</b> No su	<b>list</b> bstances are subject t	o a Significant New Us	se Rule.			
No su	bstances are subject t	o TSCA 12(b) export r	notification requirements.			

### **SECTION 16. OTHER INFORMATION**

Further	information
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Full	text	of	other	abbreviations	
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TRGS901	:	TRGS 901, Explanations and Basis for Exposure Limits in the Workplace Air
US WEEL TRGS901 / Bayer OES US WEEL / TWA	:	USA. Workplace Environmental Exposure Levels (WEEL) BOES = Bayer Occupational Exposure Standard 8-hr TWA

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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.

US / EN