

Nobivac Puppy DP Plus Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.07.2024
3.1	28.09.2024	7776483-00010	Date of first issue: 05.02.2021

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Nobivac Puppy DP Plus Formulation
Product code	:	Nobivac Puppy DP Formulation
Other means of identification	:	Nobivac Puppy DP (A006018)

Manufacturer or supplier's details

Company name of supplier	:	MSD
Address	:	126 E. Lincoln Avenue
		Rahway, New Jersey U.S.A. 07065
Telephone	:	908-740-4000
Emergency telephone	:	1-908-423-6000
E-mail address	:	EHSDATASTEWARD@msd.com

Recommended use of the chemical and restrictions on use

Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

Other hazards

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin. May form explosive dust-air mixture during processing, handling or other means.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
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Components

Chemical name	CAS-No.	Concentration (% w/w)
Antigen	Not Assigned	>= 10 -< 20
Neomycin, sulfate (salt)	1405-10-3	< 0.1

SECTION 4. FIRST AID MEASURES

General advice	 In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medic advice. 	cal
If inhaled	: If inhaled, remove to fresh air. Get medical attention if symptoms occur.	
In case of skin contact	: Wash with water and soap. Get medical attention if symptoms occur.	
In case of eye contact	: If in eyes, rinse well with water.	



Ver 3.1	sion	Revision Date: 28.09.2024		98 Number: 76483-00010	Date of last issue: 06.07.2024 Date of first issue: 05.02.2021
	and eff delayed Protect	nportant symptoms ects, both acute and	:	 Get medical attention if irritation develops and persists. If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water. Contact with dust can cause mechanical irritation or drying the skin. Dust contact with the eyes can lead to mechanical irritatio No special precautions are necessary for first aid respond Treat symptomatically and supportively. 	
SEC	CTION 5	. FIRE-FIGHTING ME	ASL	JRES	
	Suitabl	e extinguishing media	:	Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical	
	Unsuita media	able extinguishing	:	None known.	
	Specific fighting	c hazards during fire I	:	concentrations, ar potential dust exp	dust; fine dust dispersed in air in sufficient nd in the presence of an ignition source is a losion hazard. bustion products may be a hazard to health.
	Hazard ucts	lous combustion prod-	:	Carbon oxides Nitrogen oxides (N	NOx)
	Specifie ods	c extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
		l protective equipment fighters	:	necessary.	ed breathing apparatus for firefighting if ective equipment.
SEC	CTION 6	ACCIDENTAL RELE	AS	E MEASURES	
	tive equ	al precautions, protec- uipment and emer- procedures	:		ing advice (see section 7) and personal ent recommendations (see section 8).

Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for	:	Sweep up or vacuum up spillage and collect in suitable
containment and cleaning up		container for disposal.



Version	Revision Date:	SDS Number:	Date of last issue: 06.07.2024
3.1	28.09.2024	7776483-00010	Date of first issue: 05.02.2021
		with compressed Dust deposits she surfaces, as thes released into the Local or national disposal of this m employed in the determine which Sections 13 and	of dust in the air (i.e., clearing dust surfaces air). ould not be allowed to accumulate on se may form an explosive mixture if they are atmosphere in sufficient concentration. regulations may apply to releases and naterial, as well as those materials and items cleanup of releases. You will need to regulations are applicable. 15 of this SDS provide information regarding ational requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	:	Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Local/Total ventilation Advice on safe handling	:	Use only with adequate ventilation. Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Minimize dust generation and accumulation. Keep container closed when not in use. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the environment.
Hygiene measures	:	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.
Conditions for safe storage	:	Keep in properly labeled containers. Store in accordance with the particular national regulations.
Materials to avoid	:	Do not store with the following product types: Strong oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

igredients with workplace control parameters							
Components	CAS-No.	Value type	Control parame-	Basis			
		(Form of	ters / Permissible				
		exposure)	concentration				
Neomycin, sulfate (salt)	1405-10-3	TWA	1 mg/m3 (OEB 1)	Internal			
	Further informa	ation: DSEN, OT	0				

Ingredients with workplace control parameters



Versio 3.1	on Revision Date: 28.09.2024		DS Number:Date of last issue: 06.07.202476483-00010Date of first issue: 05.02.2021
			Wipe limit 0.1 mg/100 cm ² Internal
E	Engineering measures	:	Use feasible engineering controls to minimize exposure to compound. All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.
F	Personal protective equipme	ent	
F	Respiratory protection Filter type	:	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Particulates type
ł	Hand protection Material	:	Chemical-resistant gloves
E	Eye protection	:	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
S	Skin and body protection	:	Work uniform or laboratory coat.
SECT	TION 9. PHYSICAL AND CHE	MI	CAL PROPERTIES
Å	Appearance	:	lyophilized cake
(Color	:	off-white
			light yellow
(Odor	:	No data available
(Odor Threshold	:	No data available
þ	рН	:	No data available
N	Melting point/freezing point	:	No data available
	nitial boiling point and boiling ange	:	No data available
F	Flash point	:	Not applicable
E	Evaporation rate	:	Not applicable
F	Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, handling or other means.
F	Flammability (liquids)	:	Not applicable
	Jpper explosion limit / Upper lammability limit	:	No data available



Nobivac Puppy DP Plus Formulation

Vers 3.1	sion	Revision Date: 28.09.2024		S Number: '6483-00010	Date of last issue: 06.07.2024 Date of first issue: 05.02.2021
		explosion limit / Lower bility limit	:	No data available	
	Vapor p	pressure	:	Not applicable	
	Relative	e vapor density	:	Not applicable	
	Relative	e density	:	No data available	•
	Density	,	:	No data available	•
	Solubili Wat	ty(ies) er solubility	:	soluble	
	Partition octanol	n coefficient: n-	:	Not applicable	
		ition temperature	:	No data available	
	Decom	position temperature	:	No data available	•
	Viscosi Visc	ty osity, kinematic	:	Not applicable	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance or	mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	
	Particle Particle	characteristics size	:	No data available	

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. May form explosive dust-air mixture during processing, handling or other means. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks. Avoid dust formation.
Incompatible materials Hazardous decomposition products		Oxidizing agents No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Skin contact





rsion	Revision Date: 28.09.2024	SDS Number: 7776483-00010	Date of last issue: 06.07.2024 Date of first issue: 05.02.2021
Inges			
	e toxicity lassified based on availa	ble information	
	oonents:		
	nycin, sulfate (salt): e oral toxicity	: LD50 (Mouse): 2	2 880 ma/ka
710010	ordi toxioity	. ,	
		LD50 (Rat): 2,75	i0 mg/kg
	e toxicity (other routes of histration)		mg/kg e: Subcutaneous
		LD50 (Mouse): 1 Application Rout	16 mg/kg e: Intraperitoneal
		LD50 (Mouse): 2 Application Rout	
		LD50 (Mouse): 2 Application Rout	275 mg/kg e: Subcutaneous
Not c	corrosion/irritation lassified based on availa ponents:	ble information.	
Not cl <u>Comp</u> Neon Speci	lassified based on availa ponents: nycin, sulfate (salt): les	: Rabbit	
Not cl <u>Comp</u> Neon	lassified based on availa ponents: nycin, sulfate (salt): les		n
Not cl Comj Neon Speci Resul	lassified based on availa ponents: nycin, sulfate (salt): les lt us eye damage/eye irri	: Rabbit : Mild skin irritation tation	n
Not cl Com Neon Speci Resul Serio Not cl	lassified based on availa ponents: hycin, sulfate (salt): les lt us eye damage/eye irri lassified based on availa	: Rabbit : Mild skin irritation tation	n
Not cl <u>Com</u> Neon Speci Resul Serio Not cl <u>Com</u>	lassified based on availa ponents: hycin, sulfate (salt): les lt us eye damage/eye irri lassified based on availa ponents:	: Rabbit : Mild skin irritation tation	n
Not cl Com Neon Speci Resul Serio Not cl <u>Com</u>	lassified based on availa <u>ponents:</u> hycin, sulfate (salt): les It bus eye damage/eye irri lassified based on availa <u>ponents:</u> hycin, sulfate (salt):	: Rabbit : Mild skin irritation tation ble information.	n
Not cl <u>Com</u> Neon Speci Resul Serio Not cl <u>Com</u>	lassified based on availa <u>ponents:</u> hycin, sulfate (salt): les lt bus eye damage/eye irri lassified based on availa <u>ponents:</u> hycin, sulfate (salt): les	: Rabbit : Mild skin irritation tation	n
Not cl Com Specia Resul Serio Not cl Com Specia Resul	lassified based on availa <u>ponents:</u> hycin, sulfate (salt): les lt bus eye damage/eye irri lassified based on availa <u>ponents:</u> hycin, sulfate (salt): les	: Rabbit : Mild skin irritation tation ble information. : Rabbit : No eye irritation	n
Not cl Com Speci Resul Serio Not cl Com Speci Resul Resp Skin	lassified based on availa <u>ponents:</u> hycin, sulfate (salt): les It lassified based on availa <u>ponents:</u> hycin, sulfate (salt): les It	: Rabbit : Mild skin irritation tation ble information. : Rabbit : No eye irritation ation	n
Not cl Com Speci Resul Serio Not cl Com Speci Resul Resp Skin Not cl Resp	lassified based on availa ponents: hycin, sulfate (salt): les lt us eye damage/eye irri lassified based on availa ponents: hycin, sulfate (salt): les lt iratory or skin sensitiza sensitization lassified based on availa iratory sensitization	: Rabbit : Mild skin irritation tation ble information. : Rabbit : No eye irritation ation ble information.	n
Not cl Com Speci Resul Serio Not cl Com Speci Resul Resul Resul Skin Not cl Resp Not cl	lassified based on availa ponents: hycin, sulfate (salt): les lt us eye damage/eye irri lassified based on availa ponents: hycin, sulfate (salt): les lt iratory or skin sensitiza sensitization lassified based on availa	: Rabbit : Mild skin irritation tation ble information. : Rabbit : No eye irritation ation ble information.	n
Not cl Com Speci Resul Serio Not cl Com Speci Resul Resul Resul Not cl Resp Not cl Com	lassified based on availa ponents: hycin, sulfate (salt): les it bus eye damage/eye irri lassified based on availa ponents: hycin, sulfate (salt): les it iratory or skin sensitization lassified based on availa iratory sensitization lassified based on availa ponents:	: Rabbit : Mild skin irritation tation ble information. : Rabbit : No eye irritation ation ble information.	n
Not cl Com Specia Result Serio Not cl Com Specia Result Result Result Result Not cl Result Not cl	lassified based on availa ponents: hycin, sulfate (salt): les lt us eye damage/eye irri lassified based on availa ponents: hycin, sulfate (salt): les lt iratory or skin sensitization lassified based on availa iratory sensitization lassified based on availa	: Rabbit : Mild skin irritation tation ble information. : Rabbit : No eye irritation ation ble information.	n



	Revision Date: 28.09.2024		OS Number: 76483-00010	Date of last issue: 06.07.2024 Date of first issue: 05.02.2021
Speci Resul		:	Humans positive	
Not cl	cell mutagenicity assified based on availa	able	information.	
Neom	nycin, sulfate (salt): toxicity in vitro	:		rial reverse mutation assay (AMES)
				o mammalian cell gene mutation test nese hamster ovary cells
				nosomal aberration man lymphocytes
			Test Type: in vitr Result: negative	o micronucleus test
Genot	toxicity in vivo	:		-
			Result: negative	
	nogenicity assified based on availa	able	-	
Not cl	• •	able	-	
Not cl <u>Comp</u> Neom Specie	assified based on availa <u>ponents:</u> hycin, sulfate (salt): es sure time	:	-	
Not cl Comp Neom Specie Expos Result	assified based on availa <u>ponents:</u> hycin, sulfate (salt): es sure time	: :	information. Rat 2 Years negative	
Not cl Comp Neom Specie Expos Resul Resul	assified based on availa <u>ponents:</u> nycin, sulfate (salt): es sure time t poductive toxicity	: :	information. Rat 2 Years negative	
Not cl Comp Specie Expos Result Repro Not cl Comp Neom	assified based on availa <u>ponents:</u> hycin, sulfate (salt): es sure time t bductive toxicity assified based on availa	: :	information. Rat 2 Years negative information. Test Type: Three Species: Rat Application Route General Toxicity	e: Oral Parent: NOAEL: 25 mg/kg body weig s on fertility and early embryonic
Not cl Comp Specie Expos Result Repro Not cl Comp Effect	assified based on availa <u>conents:</u> nycin, sulfate (salt): es sure time t coductive toxicity assified based on availa <u>conents:</u> nycin, sulfate (salt):	: : able	information. Rat 2 Years negative information. Test Type: Three Species: Rat Application Route General Toxicity Result: No effect development wer	Parent: NOAEL: 25 mg/kg body weig s on fertility and early embryonic



rsion	Revision Date: 28.09.2024		Number: 6483-00010	Date of last issue: 06.07.2024 Date of first issue: 05.02.2021
		E		e: Oral icity.: NOAEL: 275 mg/kg body weight rse effects., No teratogenic effects.
		S		lopment e: Subcutaneous Foxicity: LOAEL: 6 mg/kg body weight
			Result: positive	
Repro sessm	oductive toxicity - As- nent		Some evidence animal experime	of adverse effects on development, based or ints.
STOT	-single exposure			
Not cla	assified based on avail	lable in	formation.	
STOT	-repeated exposure			
Not cla	assified based on avail	lable in	formation.	
Comp	oonents:			
Neom	ycin, sulfate (salt):			
Targe	t Organs	: k	Kidney, inner ea	r
				(
-	sment			age to organs through prolonged or repeated
Asses Rema		e	Aay cause dama exposure. Based on humar	age to organs through prolonged or repeated
Asses Rema Repea	urks ated dose toxicity ponents:	e	exposure.	
Asses Rema Repea <u>Comp</u> Neom	urks ated dose toxicity ponents: nycin, sulfate (salt):	e : E	exposure. Based on humar	
Asses Rema Repea <u>Comp</u> Neom Specie	urks ated dose toxicity ponents: nycin, sulfate (salt): es	е : Е : N	exposure. Based on humar Mouse	
Asses Rema Repea Comp Neom Specie LOAE	arks ated dose toxicity ponents: nycin, sulfate (salt): es	: E : S : 3	exposure. Based on humar Mouse 80 mg/kg	
Asses Rema Repea Comp Neom Specie LOAE Applic Expos	arks ated dose toxicity <u>ponents:</u> aycin, sulfate (salt): es EL cation Route sure time	e : E : 3 : 3 : 5 : 1	Aouse 30 mg/kg 40 duse 30 mg/kg 50 bcutaneous 4 d	
Asses Rema Repea Comp Neom Specie LOAE Applic Expos	arks ated dose toxicity ponents: hycin, sulfate (salt): es EL cation Route	e : E : 3 : 3 : 5 : 1	Aouse 30 mg/kg 50 bubcutaneous	
Asses Rema Repea Comp Neom Specia LOAE Applic Expos Targe	arks ated dose toxicity <u>ponents:</u> aycin, sulfate (salt): es iL cation Route sure time t Organs	e : E : S : S : 1 : k	Aouse Based on humar Mouse Bolo mg/kg Subcutaneous 4 d Kidney	
Asses Rema Repea Comp Neom Specie LOAE Applic Expos	ated dose toxicity ponents: aycin, sulfate (salt): es L cation Route sure time t Organs	: E : E : 3 : 3 : 5 : 1 : k : 0	Aouse Based on humar O mg/kg Subcutaneous 4 d Kidney Guinea pig	
Asses Rema Repea Comp Neom Specie LOAE Applic Expos Targe Specie NOAE LOAE	ated dose toxicity <u>ponents:</u> nycin, sulfate (salt): es L cation Route sure time t Organs es EL L	: E : E : 3 : 3 : 5 : 1 : k : 5	Aouse Based on humar Mouse Bolo mg/kg Subcutaneous 4 d Kidney	
Asses Rema Repea Comp Neom Specie LOAE Applic Expos Targe Specie NOAE LOAE Applic	ated dose toxicity ponents: hycin, sulfate (salt): es L cation Route sure time t Organs es EL cation Route cation Route	: E : M : 3 : 5 : 1 : k : 5 : 1 : 1	Aouse Based on humar Mouse Bo mg/kg Subcutaneous 4 d Kidney Guinea pig Go mg/kg 00 mg/kg ntramuscular	
Asses Rema Repea Comp Neom Specie LOAE Applic Expos Targe Specie NOAE LOAE Applic Expos	ated dose toxicity ponents: hycin, sulfate (salt): es iL cation Route sure time t Organs es iL cation Route sure time cure time	e : E : N : 3 : 5 : 1 : 1 : 5 : 1 : 1 : 3	Aouse Based on humar Mouse So mg/kg Subcutaneous 4 d Kidney Suinea pig 50 mg/kg 00 mg/kg ntramuscular 80 - 60 Weeks	
Asses Rema Repea Comp Neom Specie LOAE Applic Expos Targe Specie NOAE LOAE Applic Expos	ated dose toxicity ponents: hycin, sulfate (salt): es L cation Route sure time t Organs es EL cation Route cation Route	e : E : N : 3 : 5 : 1 : 1 : 5 : 1 : 1 : 3	Aouse Based on humar Mouse Bo mg/kg Subcutaneous 4 d Kidney Guinea pig Go mg/kg 00 mg/kg ntramuscular	
Asses Rema Repea Comp Neom Specie LOAE Applic Expos Targe Specie NOAE LOAE Applic Expos Targe	ated dose toxicity ponents: pycin, sulfate (salt): es L cation Route sure time t Organs es L cation Route sure time t Organs es sure time t Organs es	e : E : M : 33 : 5 : 1 : 4 : 5 : 1 : 1 : 1 : 3 : 6 : 0	Aouse Based on humar Mouse O mg/kg Subcutaneous 4 d Kidney Guinea pig 00 mg/kg 00 mg/kg 00 mg/kg ntramuscular 00 - 60 Weeks ear Guinea pig	
Asses Rema Repea Comp Neom Specia LOAE Applic Expos Targe Specia NOAE LOAE Applic Expos Targe	ated dose toxicity ponents: hycin, sulfate (salt): es L cation Route sure time t Organs es EL L cation Route sure time t Organs es EL L cation Route sure time t Organs	e : E : N : 3 : 1 : k : 5 : 1 : 1 : 3 : e : 0 : 1	Aouse Based on humar Mouse Bo mg/kg Subcutaneous 4 d Kidney Guinea pig 00 mg/kg 00 mg/kg ntramuscular 80 - 60 Weeks ear Guinea pig 0 mg/kg	
Asses Rema Repea Comp Neom Specia LOAE Applic Expos Targe Specia NOAE LOAE Applic Expos Targe	arks ated dose toxicity <u>ponents:</u> aycin, sulfate (salt): es is cation Route sure time t Organs es EL cation Route sure time t Organs es EL cation Route sure time t Organs	E E E E E E E E E E E E E E E E E E E	Aouse Based on humar Based on humar Bology Bubcutaneous 4 d Kidney Buinea pig 00 mg/kg 00 mg/kg ntramuscular 80 - 60 Weeks ear Buinea pig 0 mg/kg Dral	
Asses Rema Repea Comp Neom Specia LOAE Applic Expos Targe Specia NOAE LOAE Applic Expos Targe	ated dose toxicity ponents: aycin, sulfate (salt): es iL cation Route sure time t Organs es EL cation Route sure time t Organs es EL cation Route sure time t Organs es EL cation Route sure time t Organs	e : E : S : S : S : S : S : S : S : S : S : S	Aouse Based on humar Based on humar Bolocutaneous 4 d Kidney Guinea pig 60 mg/kg 00 mg/kg 00 mg/kg 00 mg/kg 00 - 60 Weeks ear Guinea pig 0 mg/kg Dral 00 d	
Asses Rema Repea Comp Neom Specie LOAE Applic Expos Targe Specie NOAE LOAE Applic Expos Targe Specie NOAE Applic Expos Targe	ated dose toxicity ponents: hycin, sulfate (salt): es iL cation Route sure time t Organs es iL cation Route sure time t Organs es iL cation Route sure time t Organs	: E : N : 3 : 1 : 4 : 5 : 1 : 3 : 6 : 0 : 1 : 3 : 6 : 0 : 1 : 3 : 6 : 0 : 1 : 1 : 3 : 6 : 0 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1	Aouse Based on humar O mg/kg Subcutaneous 4 d Kidney Guinea pig 00 mg/kg ntramuscular 80 - 60 Weeks ear Guinea pig 0 mg/kg Dral 00 d No significant ad	n experience.
Asses Rema Repea Comp Neom Specia LOAE Applic Expos Targe Specia NOAE LOAE Applic Expos Targe	ated dose toxicity ponents: hycin, sulfate (salt): es L cation Route sure time t Organs es L cation Route sure time t Organs es L cation Route sure time t Organs es	E E E E E E E E E E E E E E E E E E E	Aouse Based on humar Based on humar Bolocutaneous 4 d Kidney Guinea pig 60 mg/kg 00 mg/kg 00 mg/kg 00 mg/kg 00 - 60 Weeks ear Guinea pig 0 mg/kg Dral 00 d	n experience.
Asses Rema Repea Comp Neom Specie LOAE Applic Expos Targe Specie NOAE LOAE Applic Expos Targe Specie NOAE Applic Expos Rema Specie Applic Expos Targe	ated dose toxicity ponents: hycin, sulfate (salt): es L cation Route sure time t Organs es L cation Route sure time t Organs es L cation Route sure time t Organs es	E E N 3 S 1 K 0 5 1 H 3 E 0 1 0 S N 0 1 1 S 1 H 1 3 E 0 1 1 0 S N 0 1 1 S 1 1 S 1 S 1 1 0 S N 0 1 1 S 1 S 1 1 S 1 S 1 S 1 S 1 S 1 S 1	Aouse Based on humar O mg/kg Subcutaneous 4 d Kidney Guinea pig 00 mg/kg ntramuscular 00 mg/kg ntramuscular 00 - 60 Weeks ear Guinea pig 0 mg/kg Dral 00 d No significant ad Guinea pig	n experience.



Nobivac Puppy DP Plus Formulation

Version 3.1	Revision Date: 28.09.2024	SDS Number: 7776483-00010	Date of last issue: 06.07.2024 Date of first issue: 05.02.2021
Exposi Target	ation Route ure time Organs	: Dog : 24 mg/kg : Intramuscular : 30 d : Kidney	
Exposi	ation Route ure time Organs oms	 Rat 25 mg/kg oral (feed) 84 Weeks ear hearing loss mortality observed 	b
Exposi		: Dog : 20 mg/kg : Subcutaneous : 90 d : Kidney	
Aspira	tion toxicity		

Not classified based on available information.

Experience with human exposure

Components:

Neomycin, sulfate (salt):

Skin contact	: Symptoms: Sensitization
	Remarks: May irritate skin.
Eye contact	: Remarks: May cause eye irritation.
Ingestion	: Symptoms: Nausea, Vomiting, Diarrhea, tinnitus, hearing loss, Loss of balance

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Neomycin, sulfate (salt):

Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 72 mg/l Exposure time: 48 h Method: OECD Test Guideline 202			
		LC50 (Americamysis): 39 mg/l Exposure time: 96 h Method: US-EPA OPPTS 850.1035			
Toxicity to algae/aquatic plants	:	EC50 (Anabaena flos-aquae (cyanobacterium)): 0.00075 mg/l Exposure time: 72 h Method: OECD Test Guideline 201			
		NOEC (Anabaena flos-aquae (cyanobacterium)): 0.0003 mg/l			

Contaminated packaging



Nobivac Puppy DP Plus Formulation

Version 3.1	Revision Date: 28.09.2024	SDS Numl 7776483-0		Date of last issue: 06.07.2024 Date of first issue: 05.02.2021
			ure time: 7 d: OECD T	2 h est Guideline 201
		mg/l Exposi	ure time: 7	chneriella subcapitata (green algae)): 0.009 2 h ēst Guideline 201
		0.0022 Exposi	mg/l ure time: 7	rchneriella subcapitata (green algae)): 2 h est Guideline 201
Toxic	ity to microorganisms	Exposi Test T	ure time: 3 ype: Respi	icroorganism): 107.6 mg/l h ration inhibition ēst Guideline 209
		Exposi Test T	ure time: 3 ype: Respi	icroorganism): 2.8 mg/l h ration inhibition rest Guideline 209
Persi	istence and degradabi	lity		
<u>Com</u>	ponents:			
	n ycin, sulfate (salt): egradability	Biodeg Exposi	rapidly de radation: ure time: 1 d: OECD T	50 %
Bioad	ccumulative potential			
	ponents:			
Partit	nycin, sulfate (salt): ion coefficient: n- iol/water	: log Pov	w: < -2	
	lity in soil ata available			
	r adverse effects ata available			
ECTION	13. DISPOSAL CONS	DERATION	S	
Disp	osal methods			
-	e from residues			f waste into sewer. ordance with local regulations.
Conte	aminated nackaging			should be taken to an approved waste

handling site for recycling or disposal.

Empty containers should be taken to an approved waste

:





Nobivac Puppy DP Plus Formulation

Version 3.1	Revision Date: 28.09.2024		OS Number: 76483-00010	Date of last issue: 06.07.2024 Date of first issue: 05.02.2021
			If not otherwise	specified: Dispose of as unused product.
SECTION	14. TRANSPORT INFO	RM	ATION	
Interi	national Regulations			
UNR ⁻	TDG			
	umber	:	UN 3077	
Prope	er shipping name	:	ENVIRONMEN N.O.S. (Neomycin, su	TALLY HAZARDOUS SUBSTANCE, SOLID,
Class	6	:	9	
	ing group	:	III	
Label		:	9	
Envir	onmentally hazardous	:	yes	
	-DGR			
UN/IE		:	UN 3077	
Prope	er shipping name	:	Environmentally (Neomycin, su	y hazardous substance, solid, n.o.s. lfate (salt))
Class	6	:	9	
	ing group	:	111	
Labe		:	Miscellaneous	
aircra		:	956	
ger a	ing instruction (passen- ircraft)	:	956	
Envir	onmentally hazardous	:	yes	
IMDO	G-Code			
UN n	umber	:	UN 3077	
Prope	er shipping name	:	ENVIRONMEN N.O.S.	TALLY HAZARDOUS SUBSTANCE, SOLID,
			(Neomycin, sulf	ate (salt))
Class		:	9	
	ing group	÷		
Label	Code	÷	9 E A S E	
	le pollutant	÷	F-A, S-F yes	
		-		RPOL 73/78 and the IBC Code
Not a	pplicable for product as	sup	plied.	
Dom	estic regulation			
	-002-SCT			
	umber	:	UN 3077	
Prope	er shipping name	:	N.O.S.	TALLY HAZARDOUS SUBSTANCE, SOLID,
Class			(Neomycin, su	itate (sait))
		:	9 III	

Special precautions for user

Packing group

Labels

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

: 111

: 9





Version	Revision Date:	SDS Number:	Date of last issue: 06.07.2024
3.1	28.09.2024	7776483-00010	Date of first issue: 05.02.2021

Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

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

Federal Law for the control of chemical precursors, : Not applicable essential chemical products and machinery for producing capsules, tablets and pills.

The ingredients of this product are reported in the following inventories:

DSL	:	not determined
AICS	:	not determined
IECSC	:	not determined

SECTION 16. OTHER INFORMATION

Revision Date	:	28.09.2024
Date format	:	dd.mm.yyyy

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; 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 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; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Sub-





Version	Revision Date:	SDS Number:	Date of last issue: 06.07.2024
3.1	28.09.2024	7776483-00010	Date of first issue: 05.02.2021

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stances 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

Sources of key data used to compile the Material Safety Data Sheet

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

The information is considered as correct, but not exhaustive, and will be used only as a guide, which is based in the current knowledge of the substance or mixture, and is applicable to proper safety precautions for the product.

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