

**Nobivac Puppy DP Plus Formulation**

Version 3.0      Revision Date: 06.07.2024      SDS Number: 7776475-00009      Date of last issue: 22.04.2024  
Date of first issue: 05.02.2021

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**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 : MSD  
Address : Rua Coronel Bento Soares, 530  
Cruzeiro - Sao Paulo - Brazil CEP 12730-340  
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

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**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification in accordance with ABNT NBR 14725 Standard**

Short-term (acute) aquatic hazard : Category 1

Long-term (chronic) aquatic hazard : Category 3

**GHS label elements in accordance with ABNT NBR 14725 Standard**

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H400 Very toxic to aquatic life.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**  
P273 Avoid release to the environment.  
**Response:**

## Nobivac Puppy DP Plus Formulation

Version 3.0      Revision Date: 06.07.2024      SDS Number: 7776475-00009      Date of last issue: 22.04.2024  
 Date of first issue: 05.02.2021

P391 Collect spillage.

### Other hazards which do not result in classification

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

### Components

Chemical name	CAS-No.	Classification	Concentration (% w/w)
Antigen	Not Assigned		>= 10 -< 20
Neomycin, sulfate (salt)	1405-10-3	Acute toxicity (Oral), Category 5 Skin sensitization, Sub-category 1B Reproductive toxicity, Category 2 Specific target organ toxicity - repeated exposure (Kidney, inner ear), Category 2 Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 1	>= 0,025 -< 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 medical advice.

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.  
 Get medical attention if irritation develops and persists.

If swallowed : If swallowed, DO NOT induce vomiting.  
 Get medical attention if symptoms occur.  
 Rinse mouth thoroughly with water.

Most important symptoms and effects, both acute and delayed : Contact with dust can cause mechanical irritation or drying of the skin.  
 Dust contact with the eyes can lead to mechanical irritation.

Protection of first-aiders : No special precautions are necessary for first aid responders.

Notes to physician : Treat symptomatically and supportively.

## SECTION 5. FIRE-FIGHTING MEASURES

## Nobivac Puppy DP Plus Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 22.04.2024
3.0	06.07.2024	7776475-00009	Date of first issue: 05.02.2021

---

- Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : None known.
- Specific hazards during fire fighting : Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.  
Exposure to combustion products may be a hazard to health.
- Hazardous combustion products : Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.
- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.  
Use personal protective equipment.
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### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Follow safe handling advice (see section 7) and personal protective equipment 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 containment and cleaning up : Sweep up or vacuum up spillage and collect in suitable container for disposal.  
Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).  
Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.  
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.  
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.
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### SECTION 7. HANDLING AND STORAGE

- Technical measures : Static electricity may accumulate and ignite suspended dust

**Nobivac Puppy DP Plus Formulation**

Version 3.0      Revision Date: 06.07.2024      SDS Number: 7776475-00009      Date of last issue: 22.04.2024  
 Date of first issue: 05.02.2021

- causing an explosion.  
Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
- Local/Total ventilation : Use only with adequate ventilation.
- Advice on safe handling : 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**

**Ingredients with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Neomycin, sulfate (salt)	1405-10-3	TWA	1 mg/m <sup>3</sup> (OEB 1)	Internal
Further information: DSEN, OTO				
		Wipe limit	0.1 mg/100 cm <sup>2</sup>	Internal

- 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.

**Personal protective equipment**

- Respiratory protection : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.
- Filter type : Particulates type
- Hand protection : Chemical-resistant gloves

**Nobivac Puppy DP Plus Formulation**

Version	Revision Date:	SDS Number:	Date of last issue: 22.04.2024
3.0	06.07.2024	7776475-00009	Date of first issue: 05.02.2021

---

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.
Skin and body protection	:	Work uniform or laboratory coat.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	:	lyophilized cake
Color	:	off-white light yellow
Odor	:	No data available
Odor Threshold	:	No data available
pH	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, handling or other means.
Flammability (liquids)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	Not applicable
Relative vapor density	:	Not applicable
Relative density	:	No data available
Density	:	No data available
Solubility(ies) Water solubility	:	soluble
Partition coefficient: n-octanol/water	:	Not applicable

**Nobivac Puppy DP Plus Formulation**

Version 3.0      Revision Date: 06.07.2024      SDS Number: 7776475-00009      Date of last issue: 22.04.2024  
Date of first issue: 05.02.2021

---

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity  
Viscosity, kinematic : Not applicable

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Molecular weight : No data available

Particle characteristics  
Particle size : No data available

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : 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 : Oxidizing agents

Hazardous decomposition products : No hazardous decomposition products are known.

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**SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of exposure : Inhalation  
Skin contact  
Ingestion  
Eye contact

**Acute toxicity**

Not classified based on available information.

**Components:****Neomycin, sulfate (salt):**

Acute oral toxicity : LD50 (Mouse): 2.880 mg/kg  
LD50 (Rat): 2.750 mg/kg

Acute toxicity (other routes of administration) : LD50 (Rat): 633 mg/kg  
Application Route: Subcutaneous  
LD50 (Mouse): 116 mg/kg  
Application Route: Intraperitoneal

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## Nobivac Puppy DP Plus Formulation

Version 3.0      Revision Date: 06.07.2024      SDS Number: 7776475-00009      Date of last issue: 22.04.2024  
Date of first issue: 05.02.2021

---

LD50 (Mouse): 27,6 mg/kg  
Application Route: Intravenous

LD50 (Mouse): 275 mg/kg  
Application Route: Subcutaneous

**Skin corrosion/irritation**

Not classified based on available information.

**Components:****Neomycin, sulfate (salt):**

Species : Rabbit  
Result : Mild skin irritation

**Serious eye damage/eye irritation**

Not classified based on available information.

**Components:****Neomycin, sulfate (salt):**

Species : Rabbit  
Result : No eye irritation

**Respiratory or skin sensitization****Skin sensitization**

Not classified based on available information.

**Respiratory sensitization**

Not classified based on available information.

**Components:****Neomycin, sulfate (salt):**

Routes of exposure : Dermal  
Species : Humans  
Result : positive

**Germ cell mutagenicity**

Not classified based on available information.

**Components:****Neomycin, sulfate (salt):**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative  
  
Test Type: In vitro mammalian cell gene mutation test  
Test system: Chinese hamster ovary cells  
Result: negative  
  
Test Type: Chromosomal aberration  
Test system: Human lymphocytes

## Nobivac Puppy DP Plus Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 22.04.2024
3.0	06.07.2024	7776475-00009	Date of first issue: 05.02.2021

	Result: positive
	Test Type: in vitro micronucleus test
	Result: negative
Genotoxicity in vivo	: Test Type: Cytogenetic assay
	Species: Mouse
	Cell type: Bone marrow
	Application Route: Intravenous injection
	Result: negative

### Carcinogenicity

Not classified based on available information.

### Components:

#### Neomycin, sulfate (salt):

Species	: Rat
Exposure time	: 2 Years
Result	: negative

### Reproductive toxicity

Not classified based on available information.

### Components:

#### Neomycin, sulfate (salt):

Effects on fertility	: Test Type: Three-generation reproduction toxicity study
	Species: Rat
	Application Route: Oral
	General Toxicity Parent: NOAEL: 25 mg/kg body weight
	Result: No effects on fertility and early embryonic development were detected.

Effects on fetal development	: Test Type: Embryo-fetal development
	Species: Rat
	Application Route: Oral
	Embryo-fetal toxicity.: NOAEL: 275 mg/kg body weight
	Result: No adverse effects., No teratogenic effects.

	Test Type: Development
	Species: Rat
	Application Route: Subcutaneous
	Developmental Toxicity: LOAEL: 6 mg/kg body weight
	Result: positive

Reproductive toxicity - Assessment	: Some evidence of adverse effects on development, based on animal experiments.
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### STOT-single exposure

Not classified based on available information.

### STOT-repeated exposure

Not classified based on available information.



## Nobivac Puppy DP Plus Formulation

Version 3.0      Revision Date: 06.07.2024      SDS Number: 7776475-00009      Date of last issue: 22.04.2024  
 Date of first issue: 05.02.2021

**Components:****Neomycin, sulfate (salt):**

Target Organs	:	Kidney, inner ear
Assessment	:	May cause damage to organs through prolonged or repeated exposure.
Remarks	:	Based on human experience.

**Repeated dose toxicity****Components:****Neomycin, sulfate (salt):**

Species	:	Mouse
LOAEL	:	30 mg/kg
Application Route	:	Subcutaneous
Exposure time	:	14 d
Target Organs	:	Kidney

Species	:	Guinea pig
NOAEL	:	50 mg/kg
LOAEL	:	100 mg/kg
Application Route	:	Intramuscular
Exposure time	:	30 - 60 Weeks
Target Organs	:	ear

Species	:	Guinea pig
NOAEL	:	10 mg/kg
Application Route	:	Oral
Exposure time	:	90 d
Remarks	:	No significant adverse effects were reported

Species	:	Guinea pig
LOAEL	:	100 mg/kg
Application Route	:	Subcutaneous
Exposure time	:	34 d

Species	:	Dog
LOAEL	:	24 mg/kg
Application Route	:	Intramuscular
Exposure time	:	30 d
Target Organs	:	Kidney

Species	:	Rat
LOAEL	:	25 mg/kg
Application Route	:	oral (feed)
Exposure time	:	84 Weeks
Target Organs	:	ear
Symptoms	:	hearing loss
Remarks	:	mortality observed

Species	:	Dog
LOAEL	:	20 mg/kg
Application Route	:	Subcutaneous
Exposure time	:	90 d

## Nobivac Puppy DP Plus Formulation

Version 3.0      Revision Date: 06.07.2024      SDS Number: 7776475-00009      Date of last issue: 22.04.2024  
 Date of first issue: 05.02.2021

Target Organs : Kidney

### Aspiration 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  
 Exposure time: 72 h  
 Method: OECD Test Guideline 201  
  
 EC50 (Pseudokirchneriella subcapitata (green algae)): 0,0099 mg/l  
 Exposure time: 72 h  
 Method: OECD Test Guideline 201  
  
 NOEC (Pseudokirchneriella subcapitata (green algae)): 0,0022 mg/l  
 Exposure time: 72 h  
 Method: OECD Test Guideline 201  
  
 M-Factor (Acute aquatic toxicity) : 1.000  
 M-Factor (Chronic aquatic toxicity) : 10  
 Toxicity to microorganisms : EC50 (Natural microorganism): 107,6 mg/l  
 Exposure time: 3 h

## Nobivac Puppy DP Plus Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 22.04.2024
3.0	06.07.2024	7776475-00009	Date of first issue: 05.02.2021

Test Type: Respiration inhibition  
Method: OECD Test Guideline 209

EC10 (Natural microorganism): 2,8 mg/l  
Exposure time: 3 h  
Test Type: Respiration inhibition  
Method: OECD Test Guideline 209

### Persistence and degradability

#### Components:

##### Neomycin, sulfate (salt):

Biodegradability : Result: rapidly degradable  
Biodegradation: 50 %  
Exposure time: 1,2 d  
Method: OECD Test Guideline 314

### Bioaccumulative potential

#### Components:

##### Neomycin, sulfate (salt):

Partition coefficient: n-octanol/water : log Pow: < -2

### Mobility in soil

No data available

### Other adverse effects

No data available

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Do not dispose of waste into sewer.  
Dispose of in accordance with local regulations.  
Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
If not otherwise specified: Dispose of as unused product.

## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### UNRTDG

UN number : UN 3077  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Neomycin, sulfate (salt))  
Class : 9  
Packing group : III  
Labels : 9  
Environmentally hazardous : yes

**Nobivac Puppy DP Plus Formulation**

Version 3.0      Revision Date: 06.07.2024      SDS Number: 7776475-00009      Date of last issue: 22.04.2024  
Date of first issue: 05.02.2021

---

**IATA-DGR**

UN/ID No. : UN 3077  
Proper shipping name : Environmentally hazardous substance, solid, n.o.s.  
(Neomycin, sulfate (salt))  
Class : 9  
Packing group : III  
Labels : Miscellaneous  
Packing instruction (cargo : 956  
aircraft)  
Packing instruction (passen- : 956  
ger aircraft)  
Environmentally hazardous : yes

**IMDG-Code**

UN number : UN 3077  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S.  
(Neomycin, sulfate (salt))  
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.

**Domestic regulation****ANTT**

UN number : UN 3077  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S.  
(Neomycin, sulfate (salt))  
Class : 9  
Packing group : III  
Labels : 9  
Hazard Identification Number : 90

**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**

National List of Carcinogenic Agents for Humans - (LINACH) : Not applicable

Brazil. List of chemicals controlled by the Federal Police : Not applicable

**Nobivac Puppy DP Plus Formulation**

Version	Revision Date:	SDS Number:	Date of last issue: 22.04.2024
3.0	06.07.2024	7776475-00009	Date of first issue: 05.02.2021

---

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

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

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**SECTION 16. OTHER INFORMATION**

Revision Date	:	06.07.2024
Date format	:	dd.mm.yyyy

**Further information**

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, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>
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Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

**Full text of other abbreviations**

AllC - 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; TECl - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recom-

## Nobivac Puppy DP Plus Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 22.04.2024
3.0	06.07.2024	7776475-00009	Date of first issue: 05.02.2021

---

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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