

# PREVEXXION® RN, solution for injection

Version Revision Date: SDS Number: Date of last issue: -

1.0 02/03/2022 000000058258 Date of first issue: 02/03/2022

**SECTION 1. IDENTIFICATION** 

Product name : PREVEXXION® RN, solution for injection

Synonyms : Marek's Disease Vaccine, Serotype 1, Live Herpesvirus Chi-

mera. USDA Code: 16L1.R0

with: Viral antigen - Live Turkey Herpesvirus Chimera

Manufacturer or supplier's details

Company name of supplier : Boehringer Ingelheim AH USA

Address : Satellite Blvd Ste 500 3239

Duluth GA 30096

USA

Telephone : (678) 638-3000

Prepared by : EHS-Services@Boehringer-Ingelheim.com

Emergency telephone num-

ber

Int. Emergency Telephone number: +1 703-527-3887 US Emergency Telephone number: +1 703-741-5970

Recommended use of the chemical and restrictions on use

Recommended use : Veterinary product

Restrictions on use : Safety Data Sheet only for the professional user.. For veteri-

nary use only, Refer to the product insert for complete instruc-

tions on usage

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

# GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

#### **GHS label elements**

Not a hazardous substance or mixture.

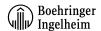
#### Other hazards

This drug is not subject to the labelling requirements under the Globally Harmonized System (GHS)

The pharmacological effect of the medicament has to be considered (see package leaflet). In case the product is handled, stored or shipped with dry ice or liquid nitrogen, please consider the respective SDS.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture



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Chemical nature : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
dimethyl sulfoxide	67-68-5	>= 1 - < 5

Actual concentration is withheld as a trade secret

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

General advice : In the case of accident or if you feel unwell, seek medical ad-

vice immediately.

(show the package insert where possible).

First Aid responders should pay attention to self-protection

and use the recommended protective clothing

Remove from exposure, lie down.

Take off immediately all contaminated clothing.

Victim to lie down in the recovery position, cover and keep him

warm.

If inhaled : Move to fresh air.

In case of skin contact : Wash off immediately with plenty of water.

In case of eye contact : Rinse immediately with plenty of water for at least 15 minutes.

Keep eye wide open while rinsing.

If swallowed : Rinse mouth.

Drink plenty of water.

Most important symptoms and effects, both acute and

delayed

No information available.

Notes to physician : Observe the summary of product characteristics of proprietary

medicinal products

Treat symptomatically.

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

Suitable extinguishing media : Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Water Dry chemical Foam

Carbon dioxide (CO2)

Specific hazards during fire-

fighting

In case of fire and/or explosion do not breathe fumes.

Product itself is non-combustible; fire extinguishing method of

surrounding areas must be considered.

Hazardous combustion prod: :

ucts

Carbon oxides



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Further information Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment :

for firefighters

In the event of fire, wear self-contained breathing apparatus.

Complete suit protecting against chemicals

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

Personal precautions, protec: :

tive equipment and emer-

gency procedures

Wear personal protective equipment.

Ensure adequate ventilation.

High risk of slipping due to leakage/spillage of product.

**Environmental precautions** Do not flush into surface water or sanitary sewer system.

Methods and materials for

containment and cleaning up

Pick up and transfer to properly labelled containers.

Absorb with liquid-binding material (sand, diatomite, acid

binders, universal binders). Clean with disinfectants.

#### **SECTION 7. HANDLING AND STORAGE**

Advice on protection against

fire and explosion

No special protective measures against fire required.

The product is not flammable.

Advice on safe handling Provide sufficient air exchange and/or exhaust in work rooms.

Conditions for safe storage Refer to the product insert for instructions on storage.

Keep away from food, drink and animal feedingstuffs. Materials to avoid

Observe joint storage prohibition.

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

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
dimethyl sulfoxide	67-68-5	TWA	250 ppm	US WEEL

**Engineering measures** Local exhaust

Emergency sprinkling nozzle

#### Personal protective equipment

Respiratory protection No personal respiratory protective equipment normally re-

quired.

General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn.



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Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate

protection.

Hand protection

Material : Nitrile rubber

Remarks : The break through time depends amongst other things on the

material, the thickness and the type of glove and therefore

has to be measured for each case.

Eye protection : Safety glasses with side-shields

(Not necessary when using full face mask)

Skin and body protection : Laboratory: laboratory coat; Factory: disposable Overall.

Protective measures : Handle in accordance with good industrial hygiene and safety

practice.

Avoid contact with skin, eyes and clothing.

Only use protective equipment in accordance with national/international regulations. Follow the national regulations about wearing personal protective equipment and the warran-

ty given by the manufacturer for the safe function.

Hygiene measures : General industrial hygiene practice.

Wash hands and face before breaks and immediately after

handling the product.

Keep working clothes separately.

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Colour : tan, light orange, light pink

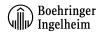
Odour : characteristic

Odour Threshold : No data available

pH : No data available

Melting point/range : Not applicable

Boiling point/boiling range : No data available



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Flash point : No data available

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

Self-ignition : does not ignite

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : No data available

Bulk density : Not applicable

Solubility(ies)

Water solubility : soluble

Partition coefficient: n-

octanol/water

No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : Not explosive

Oxidizing properties : No data available

Particle size : Not applicable

### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reac- : No dangerous reaction known under conditions of normal use.



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tions

Conditions to avoid : No data available

Incompatible materials : No data available

Hazardous decomposition

products

No data available

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

#### **Acute toxicity**

Not classified based on available information.

#### **Components:**

# dimethyl sulfoxide:

Acute oral toxicity : LD50 (Rat, male and female): 28,300 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC0 (Rat, male and female): > 5.33 mg/l

Exposure time: 4 h

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat, male and female): 40,000 mg/kg

#### Skin corrosion/irritation

Not classified based on available information.

#### Components:

#### dimethyl sulfoxide:

Species : Rabbit

Method : OECD Test Guideline 404

Result : Slightly irritating.

# Serious eye damage/eye irritation

Not classified based on available information.

#### **Components:**

#### dimethyl sulfoxide:

Species : Rabbit

Result : No eye irritation

Method : OECD Test Guideline 405

# Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### Respiratory sensitisation

Not classified based on available information.



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#### **Components:**

dimethyl sulfoxide:

Test Type : Maximisation Test

Species : Guinea pig

Method : OECD Test Guideline 406

Result : Does not cause skin sensitisation.

Test Type : Local lymph node assay (LLNA)

Species : Mouse

Method : OECD Test Guideline 429

Result : Does not cause skin sensitisation.

Germ cell mutagenicity

Not classified based on available information.

Components:

dimethyl sulfoxide:

Genotoxicity in vitro : Test Type: Ames test

Test system: Salmonella typhimurium

Result: negative

Test Type: sister chromatid exchange assay Test system: Chinese hamster ovary cells

Result: negative

Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells

Result: negative

Genotoxicity in vivo : Species: Rat (male and female)

Method: OECD Test Guideline 474

Result: negative

Carcinogenicity

Not classified based on available information.

**Components:** 

dimethyl sulfoxide:

Remarks : No data available

IARC No component of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**No component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.



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Components:

dimethyl sulfoxide:

Effects on fertility : Remarks: No data available

Effects on foetal develop-

ment

Remarks: No data available

STOT - single exposure

Not classified based on available information.

**Components:** 

dimethyl sulfoxide:

Remarks : No data available

STOT - repeated exposure

Not classified based on available information.

**Components:** 

dimethyl sulfoxide:

Remarks : No data available

Repeated dose toxicity

**Components:** 

dimethyl sulfoxide:

Species : Rat, male and female

NOAEL : 3,300 mg/kg LOAEL : 9,900 mg/kg

Application Route : Oral Exposure time : 18 month

Species : Monkey, male and female

NOAEL : 8,910 mg/kg LOAEL : 990 mg/kg Exposure time : 18 month

**Aspiration toxicity** 

Not classified based on available information.

**Components:** 

dimethyl sulfoxide:

No data available



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#### **SECTION 12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

#### Components:

dimethyl sulfoxide:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 25,000 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 24,600 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (green algae)):

17,000 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to fish (Chronic tox-

icity)

Remarks: No data available

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

Remarks: No data available

Toxicity to microorganisms : EC50 (activated sludge): 10 - 100 mg/l

Exposure time: 0.5 h Method: ISO 8192

# Persistence and degradability

#### **Components:**

dimethyl sulfoxide:

Biodegradability : aerobic

Result: Not readily biodegradable.

Biodegradation: 31 % Exposure time: 28 d

Method: OECD Test Guideline 301D

Stability in water : Hydrolysis: at30 °C(0.12 - 1.2 h)

Remarks: Hydrolyses readily.

# **Bioaccumulative potential**

#### **Components:**

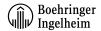
dimethyl sulfoxide:

Bioaccumulation : Remarks: No data available

Partition coefficient: n-

octanol/water

: log Pow: -1.35 (68 °F / 20 °C)



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#### Mobility in soil

#### **Components:**

#### dimethyl sulfoxide:

Distribution among environ-

mental compartments

Remarks: No data available

#### Other adverse effects

#### **Product:**

Ozone-Depletion Potential Regulation: 40 CFR Protection of Environment; Part 82 Pro-

tection of Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

#### **Disposal methods**

Waste from residues Dispose of in accordance with local regulations.

Contaminated packaging Packs that cannot be cleaned should be disposed of in the

same manner as the contents.

Uncontaminated packaging can be recycled.

#### **SECTION 14. TRANSPORT INFORMATION**

### International Regulations

#### IATA-DGR

Not regulated as a dangerous good

### **IMDG-Code**

Not regulated as a dangerous good

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

Not applicable for product as supplied.

# **National Regulations**

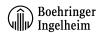
#### **49 CFR**

Not regulated as a dangerous good

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

### **CERCLA Reportable Quantity**

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



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#### 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.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : 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.

#### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

dimethyl sulfoxide 67-68-5  $\Rightarrow$  1 - < 5 %

### **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

#### **US State Regulations**

### Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

#### Pennsylvania Right To Know

water 7732-18-5 dimethyl sulfoxide 67-68-5

### **Maine Chemicals of High Concern**

Product does not contain any listed chemicals

# **Vermont Chemicals of High Concern**

Product does not contain any listed chemicals

#### **Washington Chemicals of High Concern**

Product does not contain any listed chemicals

# California Prop. 65

WARNING: This product can expose you to chemicals including streptomycin sulphate, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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



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TCS	SI	:	On the inventory,	or in compliance with the inventory	
TSC	CA C	:	Product contains substance(s) not listed on TSCA inventory.		
AIIC	;	:	Not in compliance with the inventory		
DSL		:	This product contains the following components that are not on the Canadian DSL nor NDSL.		
			amphotericin B		
ENC	cs	:	Not in compliance	e with the inventory	
ISH	L	:	Not in compliance	e with the inventory	
KEC	CI	:	Not in compliance	e with the inventory	
PIC	CS	:	Not in compliance	e with the inventory	
IEC	SC	:	On the inventory,	or in compliance with the inventory	
NZI	оС	:	On the inventory, or in compliance with the inventory		
TEC	CI	:	Not in compliance	e with the inventory	
TSC	^A liet				

# **TSCA list**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

# **SECTION 16. OTHER INFORMATION**

# **Further information**

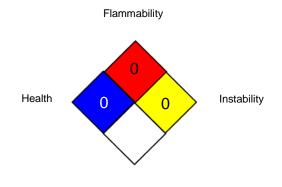


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# NFPA 704:



Special hazard

#### HMIS® IV:



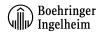
HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

#### Full text of other abbreviations

US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)

US WEEL / TWA : 8-hr TWA

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ -Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Con-



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trol Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to

compile the Safety Data

Sheet

The specifications are based on own tests and/or literature

data.

Revision Date : 02/03/2022

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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