Product Name: Vetivex 9® (Ringer's Solution for Infusion)

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SECTION 1: IDENTIFICATION		
1.1 Product identifier		
Product name:	Vetivex 9 [®] (Ringer's Solution for Infusion)	
Synonyms:	None	
Proper Shipping name:	Not Available	
Other means of identification:	None	
1.2 Relevant identified uses	of the substances or mixture and uses advised against	
Recommended uses:	This product is administered by intravenous infusion for the treatment of dehydration in cattle, calves, horses, dogs and cats. It may be used to correct volume depletion resulting from shock or gastrointestinal disease, especially where hypokalaemia is present (e.g. in cases of sustained vomiting).	
Uses advised against:	Not for human use.	
1.3 Details of the supplier o	f the substance or mixture	
Registered company name:	Dechra Ltd	
Address:	Snaygill Industrial Estate Keighley Road Skipton North Yorkshire BD23 2RW UK	
Telephone:	+44 (0) 1756 791311	
Fax:	+44 (0) 1756 798604	
Email:	Not available	
1.4 Emergency Telephone Numbers		
	+44 (0) 1756 791311	

SECTION 2: HAZARDS IDENTIFICATION	
2.1 Classification of the substance or mixture	
DSD Classification (EU):	Not Available
DPD Classification (EU)1:	Not Available
Classification according to regulation (EC) No 1272/2008 [CLP] (EU):	

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2.2 Label Elements	
Signal Word:	NOT APPLICABLE
Hazard Statement(s)	
Not Applicable	
Additional Statement(s)	
None	
Precautionary Statement(s)	Prevention:
Not Applicable	
Precautionary Statement(s)	Response:
Not Applicable	
Precautionary Statement(s)	Storage:
Not Applicable	
Precautionary Statement(s)	Disposal:
Not Applicable	
2.3 Other Hazard Informatio	on

SECTION 3: INFORMATION ON THE INGREDIENTS

3.1 Substances

See section below for composition of mixtures

3.2 Mixtures

1.CAS No 2.EC Number 3.Index Number 4.REACH Number	% w/v	Name	Classification according to regulations (EC) No 1272/2008 [CLP] (EU)
1. 7647-14-5 2. 231-598-3 3. Not Available 4. 01-2119485491-33- XXXX	0.860 % w/v	Sodium chloride	None
1. 7447-40-7 2. 231-211-8 3. Not Available 4. 01-2119539416-36- XXXX	0.030 % w/v	Potassium chloride	None
1. 10035-04-8 2. Not Available	0.033 % w/v	Calcium chloride dihydrate	None

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Not Available Not Available		
N/a	Other ingredients determined not to be hazardous	N/a

SECTION 4: FIRST AID	SECTION 4: FIRST AID MEASURES		
4.1 Description of first a	aid measures		
Eye contact:	In case of accidental contact of the product with the eyes, rinse with fresh water. Irritation is unlikely, but if in doubt, seek medical attention if irritation persists and show the package leaflet or the label to the medical practitioner.		
Skin contact:	In case of accidental contact of the product with the skin, rinse fresh water. Irritation is unlikely, but if in doubt, seek medical attention if irritation persists and show the package leaflet or the label to the medical practitioner.		
Inhalation:	Inhalation of the product is highly unlikely. If fumes are inhaled remove from contaminated area.		
Ingestion:	If accidentally ingested, immediately give a glass of water. First aid is not generally required. If in doubt, seek medical attention and show the package leaflet or the label to the medical practitioner.		
4.2 Most important symptoms and effects, both acute and delayed			
See Section 11			
4.3 Indication of immediate medical attention and special treatment needed $\ensuremath{\text{N/a}}$			

SECTION 5: FIRE FIGHTING MEASURES		
5.1 Extinguishing media		
Suitable:	N/a	
Unsuitable:	None.	
5.2 Special hazards arising from the substance or mixture		
Fire incompatibility:	None known	
5.3 Special protective actions for fire-fighters:		
Firefighting:	Firefighting: N/a	
Fire / explosion hazard: Not flammable.		

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For information on protective equipment, see section 8.

6.2 Environmental Precautions

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/surface or ground water.

6.3 Methods and material for containment and cleaning up

If local regulations permit, mop up with plenty of water and run to waste, diluting greatly with running water.
 Not considered harmful to the environment. If local regulations permit, mop up with plenty of water and run to waste, diluting greatly with running water. Otherwise, contain with sand and transfer to salvage container. Arrange removal by disposal company.

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7.1 Precautions	for safe	handling
-----------------	----------	----------

Safe Handling:	Wear suitable protection gloves and clothing when handling the product. Wash hands after using the product. When handling, DO NOT eat, drink or smoke. Observe manufacturer's storage and handling recommendations.
Other Information:	Do not store above 25°C. Do not freeze. Avoid high humidity. Keep out of the reach and sight of children.

7.2 Conditions for safe storage, including any incompatibilities

Suitable Container:	Shelf life of the veterinary medicinal product as packaged for sale: 2 years.
Storage incompatibility:	Unknown.

7.3 Specific end uses

Not available

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SECTION 8: EXP	SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION					
8.1 Control para	meters					
OCCUPATIONAL	. EXPOSURE	LIMI	TS (OEL)			
INGREDIENT DA	TA:					
Not Available						
EMERGENCY LIN	MITS:					
Ingredient	Material Na	me	TEEL-1	TEEL-2	TEEL-3	
Sodium chloride	Chloride; (Chloride(1- Chloride ion		0.5 ppm	2 ppm	20 ppm	
Ingredient		Origi	nal IDLH	Revis	sed IDLH	
Not Available						
8.2 Exposure co	ntrols					
Appropriate	Appropriate engineering controls: Controls: Process controls which involve changing the way a job activity or process is done to reduce the particular risk.					
Personal protection:						
Eye and fac	e protection:	Safe	ety glasses with side	shields / che	emical goggles	
Ski	n protection:	See	hand protection bel	ow		
Hands/ fee	et protection:	No special equipment needed when handling small quantities. OTHERWISE: Wear chemical protective gloves				
Bod	y protection:	: Wear appropriate clothing				
Othe	er protection:	: No special equipment needed when handling small quantities				
Ther	mal hazards:	zards: Not applicable				
Respiratory protection: Not applicable						
8.3 Environmental exposure controls See Section 12						

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: Clear, colourless solution for infusion.

Container: Presented in polyvinylchloride (PVC) infusion bags, overwrapped with

polypropylene, in cartons of 50 x 100 ml, 20 x 250 ml, 20 x 500 ml, 10 x 1000 ml, 4 x 2000

ml, 4 x 3000 ml and 2 x 5000 ml.

Physical state: Solution Odour: Not available

Odour Threshold: Not available pH (as supplied): Not available

Melting point / freezing point (degrees C): Not available Initial boiling point and boiling range: Not available

Flash Point: Not available Evaporation rate: Not available Flammability: Not available

Upper/lower flammability or explosive limits: Not available

Vapour pressure: Not available

Relative Density (at degrees C): Not available Solubility in water and solvents (mg/l): Soluble

Vapour density: Not available

Auto ignition temperature (degrees C): Not available Decomposition temperature (degrees C): Not available

Viscosity: (degrees C): Not available Explosive properties: Not available Oxidising properties: Not available Partition Coefficient: Not available Molecular weight: Not available

Taste: Not available

Surface tension: Not available Volative component: Not available

Gas group: Not available pH as a solution: 5.0 to 7.5 VOC g/L: Not available

9.2 Other information

Not Available

10: REACTIVITY AND STABILITY			
10.1 Reactivity:	See Section 7		
10.2 Chemical stability:	Product is considered stable.		
10.3 Possibility of hazardous reactions:	Stable under normal temperatures and conditions.		
10.4 Conditions to avoid:	See section 7.		
10.5 Incompatible materials:	See section 7.		

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Respiratory or skin sensitization:

Germ cell mutagenicity:

Not available

Not available

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10.6 Hazardous decomposition:	See Section 5.				
SECTION 11: TO	XICOLOG	ICAL INFORMATION			
Inhalation:	If handled	If handled accordingly, no danger for humans.			
Ingestion:	If handled accordingly, no danger for humans.				
Skin contact:	If handled	d accordingly, no danger	for humans.		
Eye contact:	If handled	d accordingly, no danger	for humans.		
Chronic:	If handled	d accordingly, no danger	for humans.		
VETIVEX 9 [®] :	Acute to	xicity	Irritation		
	Not Availa	able	Not Available		
Sodium Chloride:	Acute toxicity		Irritation		
	Dermal (rabbit) LD ₅₀ : >10000 mg/kg ¹ Oral (rat) LD ₅₀ : 3000 mg/kgd ²		Eye (rabbit): 10mg – moderate Eye (rabbit):100 mg/24h – moderate Skin (rabbit): 500 mg/24h - mild		
Potassium Chloride:	Acute to	xicity	Irritation		
	Oral (rat)	LD50: 2600 mg/kg ²	Eye (rabbit): 500 mg/24h - mild		
Calcium chloride dihydrate:	Acute toxicity Irritation				
	No data a	vailable	No data available		
obtained from mai	nufacturer [']		ubstances - Acute toxicity 2.* Value se specified data extracted from RTECS -		
Skin corrosion/ irritation:					
Not Available					
Serious eye dam	age/ irrita	tion:			
Not available					

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SECTION 11: TOXICOLOGICAL INFORMATION
Carcinogenicity:
Not available
Reproductive toxicity:
Not available
STOT – single exposure:
Not available
STOT-repeated exposure:
Not available
Aspiration hazard:
Not available

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Ingredient	Endpoint	Test duration (hr)	Species	Value	Source
Sodium chloride	LC ₅₀	96	Fish	1000 mg/L	1
Sodium chloride	EC ₅₀	48	Crustacea	402.6 mg/L	1
Sodium chloride	EC ₅₀	96	Algae or other aquatic plants	2430 mg/L	1
Sodium chloride	NOEC	6	Fish	0.001 mg/L	1
Potassium chloride	LC ₅₀	96	Fish	29.8000mg/L	2
Potassium chloride	EC ₅₀	48	Crustacea	83mg/L	2
Potassium chloride	EC ₅₀	96	Algae or other aquatic plants	1337mg/L	2
Potassium chloride	NOEC	48	Crustacea	240.45mg/L	2

^{1.} US EPA, Ecotox database - Aquatic Toxicity Data, 2. US EPA, Ecotox database - Aquatic Toxicity Data

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12.2 Persistence and degradability				
Ingredient	Persistence: Water/Soil		Persistence: Air	
Sodium chloride	LOW		LOW	
Potassium chloride	HIGH		HIGH	
12.3 Bioaccumulative	potential			
Ingredient		Bioaccum	ulative potential	
Sodium chloride		LOW (LogKOW = 0.5392)		
Potassium chloride LOW (Lo		LOW (Logk	ogKOW = -0.4608)	
12.4 Mobility in Soil				
Ingredient Mobilit		Mobility		
Sodium chloride		LOW (KOC = 14.3)		
Potassium chloride		LOW (KOC = 14.3)		
12.5 Results of PBT ar	d vPvB assessment			
Not Available				
12.6 Other adverse effects				
Not Available				

SECTION 13: DISP	SECTION 13: DISPOSAL CONSIDERATIONS			
13.1 Waste treatm	3.1 Waste treatment methods			
packaging	Any unused veterinary medicinal product or waste material derived from such veterinary medicinal products should be disposed of in accordance with national requirements.			
	Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area.			
	Ensure that the disposal of material is carried out in accordance with Hazardous Substances (Disposal) Regulations 2001.			
Waste Treatment Options:				
Sewage Disposal	Not Available			

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14.1 UN Number N/a
14.2 UN Proper Shipping Name
14.3 Transport

hazard class(es)



SECTION 14: TRANSPORT INFORMATION					
Labels required:	None				
Marine pollutant:	NO				
Hazchem:	Not Applicable				
Land transport (AD	PR):				
14.1 UN Numbe	r N/a				
14.2 UN Prope Shipping Nam					
14.3 Transpoi		N/a			
hazard class(es	Sub risk	N/a			
14.4 Packing grou	p N/a				
14.5 Environmenta hazard					
14.6 Special precautions for	Special provisions	N/a			
user	Classification code	N/a			
	Hazard Label	N/a			
	Special provisions	N/a			
	Limited quantity	N/a			
14.7 Transport in bulk according to					
Annex II o	of				
MARPOL73/78 and the IBC Cod					
Air transport (ICAO-IATA / DGR):					

ICAO/IATA Class N/a

ERG Code N/a

ICAO / IATA Sub risk N/a

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14.4 Packing group	N/a		
14.5 Environmental hazards	N/a		
	Special provisions	N/a	
precautions for user	Cargo only packing instructions	N/a	
	Cargo only maximun qty/pack	n N/a	
	Passenger and cargo packaging instruction		
	Passenger and cargo maximum qty/pack	o N/a	
	Passenger and cargorimited quantity packing instructions	o N/a	
	Passenger and cargo limited maximum qty/pack	N/a	
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	N/a		
Sea transport (IMDG	-Code / GGVSee):		
14.1 UN Number	N/a		
14.2 UN Proper Shipping Name	N/a		
14.3 Transport	IMDG Class	N/a	
hazard class(es)	IMDG Sub risk	N/a	•
14.4 Packing group	N/a		
14.5 Environmental hazards	N/a		
14.6 Special	EMS Number	N/a	
precautions for user	Special provisions	N/a	
	Limited quantities	N/a	

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14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	N/a	
Inland waterways tra	nsport (ADN):	
14.1 UN Number	N/a	
14.2 UN Proper Shipping Name	N/a	
14.3 Transport hazard class(es)	N/a	N/a
14.4 Packing group	N/a	
14.5 Environmental hazard	N/a	
=	Classification Code	N/a
precautions for user	Special provisions	N/a
	Limited quantity	N/a
	Equipment required	N/a
	Fire cones number	N/a
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	N/a	

SECTION 15: REGULATORY INFORMATION

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

SODIUM CHLORIDE (7647-14-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS:

- European Customs Inventory of Chemical Substances ECICS (English)
- European Union European Inventory of Existing Commercial Chemical Substabces (EINECS) (English)

POTASSIUM CHLORIDE (7447-40-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS:

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- European Customs Inventory of Chemical Substances ECICS (English)
- European Union European Inventory of Existing Commercial Chemical Substabces (EINECS) (English)

15.2 Chemical Safety Assessment

ECHA SUMMARY

Ingredient	CAS number	Index Number	ECHA Dossier	
Sodium chloride	7647-14-5	Not Available	01-2119485491-33- XXXX	
Harmonization (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)	
1	Eye Irrit. 2	N/a	N/a	
2	Eye Irrit. 2, STOT RE 2, Skin Mild Irrit. 3, Skin Irrit. 2	Wng, GHS08	H318, H373, H315, H335	

Harmonization Code 1 = The most prevalent classification. Harmonization Code 2 = The most severe classification.

Ingredient	CAS number	Index Number	ECHA Dossier
Potassium	7447-40-7	Not Available	01-2119539416-36-
chloride			XXXX
Harmonization	Hazard Class and	Pictograms	Hazard Statement
(C&L Inventory)	Category Code(s)	Signal Word	Code(s)
		Code(s)	
2	Eye Irrit. 2, Flam. Liq.	GHS02, GHS05,	H319, H225, H314,
	2, Skin Corr. 1B, Skin	Dgr, GHS08	H335, H373, H412,
	Irrit. 2, STOT SE 3,		H302
	STOT RE 2, Aquatic		
	Chronic 3, Acute Tox. 4		

Harmonization Code 1 = The most prevalent classification. Harmonization Code 2 = The most severe classification.

Australia - AICS	Υ
Canada - DSL	Υ
Canada - NDSL	N (sodium chloride, potassium chloride)
China - IECSC	Υ
Europe - EINEC / ELINCS / NLP	Υ
Japan - ENCS	Y (sodium chloride, potassium chloride)
Korea - KECI	Υ
New Zealand - NZIoC	Υ
Philippines - PICCS	Υ

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USA - TSCA	Y
	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

SECTION 16: OTHER INFORMATION

The SDS is written in accordance to guidelines specified by REACH, GHS and ECHA.

Ingredients with multiple cas numbers

Name	CAS No
Sodium chloride	14431-43-7, 5996-10-1

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

Definitions and abbreviations

PC—TWA: Permissible Concentration-Time Weighted Average PC—STEL: Permissible Concentration-Short Term Exposure Limit

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

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