Issue Date: 7 October 2022

Version No: 1

SDS according to OSHA HazCom Standard (2012) requirements (GHS.USA)



SECTION 1: IDENTIFICATION			
1.1 Product identifier			
Product name	Torphadine (Butorphanol Tartrate) Injection, 10 mg/mL		
Chemical name	Not Applicable		
Synonyms	Not Available		
Chemical formula	Not Applicable		
Other means ofidentification	Other means ofidentification Not Available		
1.2 Recommended use of the chemic	1.2 Recommended use of the chemical and restrictions on use		
Relevant identified uses For the relief of pain associated with colic in adult horses and yearlings			
1.3 Details of the supplier of the substance or mixture			
Registered company name (US)	Dechra Veterinary Products		
Address	7015 College Blvd Suite 525		
	Overland Park, KS 66211 USA		
Telephone	866-933-2472		
Fax	Not Available		
Email	Not Available		
1.4 Emergency telephone numbers			
Dechra (US)	866-933-2472		

## **SECTION 2: HAZARD(S) IDENTIFICATION**

## 2.1 Classification of the substance or mixture

### NFPA 704 diamond



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Classification | Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2A, Specific Target Organ Toxicity - Repeated Exposure Category 2

### 2.2 Label elements

Hazard pictogram(s)



Signal word	Warning	
Hazard statement(s	3)	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
H373	May cause damage to organs through prolonged or repeated exposure.	
Hazard(s) not otherwise classified		

## Hazard(s) not otherwise classified

Not Applicable

### Precautionary statement(s) prevention

P260 Do not breathe mist/vapors/spray.

P280 Wear protective gloves, protective clothing, eye protection and face protection.

P264 Wash all exposed external body areas thoroughly after handling.

### Precautionary statement(s) response

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P314 Get medical advice/attention if you feel unwell.

P337+P313 If eye irritation persists: Get medical advice/attention.

P302+P352 IF ON SKIN: Wash with plenty of water.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse

### Precautionary statement(s) storage

Not Applicable

6132-04-3

## Precautionary statement(s) disposal

**P501** Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

sodium citrate dihydrate

#### 



Issue Date: 7 October 2022

Version No: 1

SDS according to OSHA HazCom Standard (2012) requirements (GHS.USA)



7647-14-5	<1	sodium chloride
5949-29-1	<1	citric acid, monohydrate
121-54-0	<1	benzethonium chloride
Not Available balance Ingredients determined not to be hazardous		
The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.		

SECTION 4: FIRST AID MEASURES					
AA Danadad					
4.1 Description	of first aid measures				
Eye contact	Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart				
	and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical				
	attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an				
	eye injury should only be undertaken by skilled personnel.				
Skin contact	Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and				
	soap if available). Seek medical attention in event of irritation.				
Inhalation	If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm				
	and rested. Apply artificial respiration if not breathing. Perform CPR if necessary. Transport to hospital, or				
	doctor, without delay.				
Ingestion	If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open				
	airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of				
	being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then				
	provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice.				
	tant symptoms and effects, both acute and delayed				
	See section 11				
	4.3 Indication of immediate medical attention and special treatment needed				
Treat symptomatically for a narcotic analgesic.					
The single most important element in therapy is the correction of anoxia by all available means: the maintenance of a patent airway,					
the administration of oxygen, the use of artificial respiration, and the injection of specific narcotic antagonists such as nalorphine, levallorphan or naloxone promptly antagonizes the respiratory depression, coma and hypotension from overdoses of morphine, codeine,					
all semi-synthetics and almost all synthetic narcotics. – GOSSELIN et al: Clinical Toxicology of Commercial Products.					
	In fully conscious patients, remove swallowed poison by thorough gastric lavage and emesis. The chances of removing a significant				
amount of the	amount of the drug are better if treatment is started within the first two hours. If the patient is unconscious or depressed, emesis is				
	l and the dangers of gastric lavage are not justified. – DREISBACH AND ROBERTSON: Handbook of Poisoning, Appleton				
& Lange					

## **SECTION 5: FIRE FIGHTING MEASURES**

## 5.1 Extinguishing media

The product contains a substantial proportion of water, therefore there are no restrictions on the type of extinguishing media which may be used. Choice of extinguishing media should take into account surrounding areas.

Though the material is non-combustible, evaporation of water from the mixture, caused by the heat of nearby fire, may produce floating layers of combustible substances. In such an event consider foam, dry chemical powder, carbon dioxide.

### 5.2 Special hazards arising from the substance or mixture

Fire	None known
incompatibility	

## 5.3 Special protective actions for fire-fighters:

efighting	Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from
	entering drains or water course. Use firefighting procedures suitable for surrounding area. Avoid spraying
	water onto liquid pools. DO NOT approach containers suspected to be hot. Cool fire exposed containers
	with water spray from a protected location. If safe to do so, remove containers from path of fire.
xplosion	The material is not readily combustible under normal conditions. However, it will break down under fire

# Fire / explosion hazard

The material is not readily combustible under normal conditions. However, it will break down under fire conditions and the organic component may burn. Not considered to be a significant fire risk. Heat may cause expansion or decomposition with violent rupture of containers. Decomposes on heating and may produce toxic fumes of carbon monoxide. Decomposes on heating and produces toxic fumes of carbon dioxide, nitrogen oxides, other pyrolysis products typical of burning organic material. May emit poisonous fumes. May emit corrosive fumes.

SECTION 6: ACCIDENTAL RELEASE MEASURES			
6.1 Doroonal proces	utions, protective equipment and emergency procedures		
•	utions, protective equipment and emergency procedures		
See Section 8			
6.2 Environmental precautions			
See Section 12	See Section 12		
6.3 Methods and ma	6.3 Methods and material for containment and cleaning up		
Minor spills	Clean up all spills immediately. Avoid breathing vapors and contact with skin and eyes. Control personal		
	contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth,		
inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal.			
Major spills	Major spills Moderate hazard.		
	Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard.		
	Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering		

Issue Date: 7 October 2022

Version No: 1

SDS according to OSHA HazCom Standard (2012) requirements (GHS.USA)



drains or water course. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Neutralise/decontaminate residue. Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7: HANDLING AND STORAGE			
7.1 Precautions for safe	handling		
Safe handling	DO NOT allow clothing wet with material to stay in contact with skin. Avoid all personal contact,		
	including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated		
	area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere		
	has been checked. DO NOT allow material to contact humans, exposed food or food utensils. Avoid		
	contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers		
	securely sealed when not in use. Avoid physical damage to containers. Observe manufacturer's		
	storage and handling recommendations.		
Other information			
	Store in original containers. Store in vault fitted with warning devices or detectors recommended by		
	various Federal/State authorities. Store in vault used only for the purpose of storage of drugs of		
	addiction. Vault must be locked at all times except when the materials stored therein are required.		
7.2 Conditions for sefe			
	storage, including any incompatibilities		
Suitable container	Packaging as recommended by manufacturer. Check that containers are clearly labelled. Tamper-		
	proof containers. Polyethylene or polypropylene containers. Metal drum with sealed plastic liner.		
	Glass container is suitable for laboratory quantities		
Storage incompatibility None known			

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION					
8.1 Control parameters					
Occupational exposure limit INGREDIENT DATA Not Available	ts (OEL)				
Emergency limits					
Ingredient		TEEL-1	TEEL-2	TEEL-3	
sodium citrate dihydrate		9.3 mg/m <sup>3</sup>	100 mg/m <sup>3</sup>	610 mg/m <sup>3</sup>	
sodium chloride		0.5 ppm	2 ppm	20 ppm	
Ingredient	Original IDLH		Revised IDLH		
butorphanol tartrate		Not Available	Not Available		
sodium citrate dihydrate		Not Available	Not Available		
sodium chloride		Not Available	Not Available		
citric acid, monohydrate		Not Available	Not Available		
benzethonium chloride		Not Available	Not Available		
Occupational Exposure Ba	nding				
Ingredient	Occupation	onal Exposure Band Rating	Occupational Exposure Band Limit		
butorphanol tartrate	E		≤ 0.01 mg/m³		
sodium chloride	E	·	≤ 0.01 mg/m³		
citric acid, monohydrate	E		≤ 0.01 mg/m³		
benzethonium chloride	E	E		≤ 0.01 mg/m³	

**Notes:** Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical'spotency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposureband (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.

## MATERIAL DATA

Airborne particulate or vapour must be kept to levels as low as is practicably achievable given access to modern engineering controls and monitoring hardware. Biologically active compounds may produce idiosyncratic effects which are entirely unpredictable on the basis of literature searches and prior clinical experience (both recent and past).

unpredictable on the basis of literature searches and prior clinical experience (both recent and past).		
8.2 Exposure controls		
Appropriate engineering	Enclosed local exhaust ventilation is required at points of dust, fume or vapor generation. HEPA	
controls	terminated local exhaust ventilation should be considered at point of generation of dust, fumes or	
	vapors. Barrier protection or laminar flow cabinets should be considered for laboratory scale	
	handling.	
Personal protection		
Eye and face protection	When handling very small quantities of the material eye protection may not be required. Use safety	
	glasses with side shields or chemical goggles. Contact lenses may pose a special hazard; soft	
	contact lenses may absorb and concentrate irritants.	
Skin protection	See Hand protection below.	
Hands/feet protection	Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or	
	national equivalent). For a prolonged or frequently repeated, a glove with a protection class of 5 or	

Safety Data Sheet – Torphadine (Butorphanol Tartrate) Injection, 10 mg/mL Issue Date: 7 October 2022 Version No: 1 SDS according to OSHA HazCom Standard (2012) requirements (GHS.USA)



	higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended.
Body protection	See Other protection below
Other protection	For quantities up to 500 grams a laboratory coat may be suitable. For quantities up to 1 kilogram a disposable laboratory coat or coverall of low permeability is recommended. Coveralls should be buttoned at collar and cuffs. For quantities over 1 kilogram and manufacturing operations, wear disposable coverall of low permeability and disposable shoe covers. For manufacturing operations, air-supplied full body suits may be required for the provision of advanced respiratory protection. Eye wash unit. Ensure there is ready access to an emergency shower. For Emergencies: Vinyl suit
Respiratory protection	Type A Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or
	national equivalent)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES			
9.1 Information on basic physical and chemical properties			
Appearance: Clear to light yellow liquid	Vapor density: NA		
Physical state: Liquid	Auto ignition temperature (°C): NA		
Odor: No odor	Decomposition temperature (°C): NA		
Odor threshold: NA	Viscosity (°C): NA		
pH (as supplied): 3.0-5.5	Explosive properties: NA		
Melting point / freezing point (°C): NA	Oxidizing properties: NA		
Initial boiling point and boiling range: NA	Partition coefficient: NA		
Flash point: NA	Molecular weight: NA		
Evaporation rate: NA	Taste: NA		
Flammability: Flammable	Surface tension: NA		
Upper/lower flammability or explosive limits: NA	Volatile component (%vol): NA		
Vapor pressure: NA	Gas group: NA		
Relative density (at °C): ~1.01 at 20°C	pH as a solution: NA		
Solubility in water (mg/l): Miscible	VOC g/L: NA		
	Specific gravity @ 20 °C (water = 1): NA		

10: STABILITY AND REACTIVITY		
Reactivity	See Section 7	
Chemical stability	Unstable in the presence of incompatible materials. Product is considered stable	
	Hazardous polymerization will not occur.	
Possibility of hazardous reactions	See Section 7	
Conditions to avoid	See Section 7	
Incompatible materials	See Section 7	
Hazardous composition	See Section 5	

SECTION 11: T	SECTION 11: TOXICOLOGICAL INFORMATION			
Inhalation			e material produces irritation of the respiratory	
Ingestion		ed. Not normally a hazard due to non-volatile	he health of the individual. The commonest side-	
ingestion			ea, vomiting, constipation, dizziness, drowsiness,	
		oria and confusion.	sa, vormany, consupation, dizziness, drowsiness,	
Skin contact			e material either produces inflammation of the	
	skin in a subst	antial number of individuals following direct of	contact, and/or produces significant inflammation.	
Eye contact			material may cause eye irritation in a substantial	
			ar lesions which are present twenty-four hours or	
	more after instillation into the eye(s) of experimental animals. Repeated or prolonged eye contact may cause			
	inflammation characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis);			
Olano mila	temporary impairment of vision and/or other transient eye damage/ulceration may occur.			
Chronic	Repeated or long-term occupational exposure is likely to produce cumulative health effects involving organs			
	or biochemical systems. Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems.			
Dutarahanal Ta		Acute toxicity	Irritation	
Butorphanol Ta	10 mg/mL	Not Available	Not Available	
	10 mg/mL	Acute toxicity	Irritation	
		Oral (dog) LD50: >50 mg/kg <sup>[2]</sup>	Not Available	
		Acute toxicity	Irritation	
sodium o	itrate dihydrate	Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Not Available	
		Oral (mouse) LD50: 5000-6000 mg/kg <sup>[2]</sup>		
		Acute toxicity	Irritation	

Issue Date: 7 October 2022

Version No: 1

SDS according to OSHA HazCom Standard (2012) requirements (GHS.USA)



	Dermal (rabbit) LD50: >10000 mg/kg <sup>[1]</sup>   Inhalation (rat) LD50: >10.5 mg/kg <sup>[1]</sup>   Oral (rat) LD50: 3000 mg/kg <sup>[2]</sup>		Eye (rabbit): 10 mg – moderate Eye (rabbit):100 mg/24h – moderate Skin (rabbit): 500 mg/24h - mild	
citric acid, monohydrate	Acute toxicity		Irritation	
citie acia, monony arate	Oral (mouse) LD50: 5790 mg/kg <sup>[2]</sup>		Eye (rabbit): 5 mg/30s mild	
	Acute toxicity		Irritation	
	Dermal (rabbit) LD50: 3000 mg/kg <sup>[2]</sup>		Eye (rabbit): 0.03 mg - SEVERE	
benzethonium chloride	Oral (rat) LD50: 295 mg/kg <sup>[1]</sup>		Eye: no adverse effect observed (not irritating)[1]	
			Skin (rabbit): SEVERE*	
			Skin: adverse effect observed (corrosive) <sup>[1]</sup>	
	1 Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical			
Substances				
Acute Toxicity	×		Carcinogenicity	*
Skin Irritation/Corrosion	✓		Reproductivity	<b>3€</b>
Serios Eye Damage/Irritation	✓		STOT – Single Exposure	*
Respiratory or Skin Sensitization	*		STOT – Repeated Exposure	✓
Mutagenicity	<b>*</b> A		Aspiration Hazard	×

SECTION 12: ECOLOGICAL INFORMATION					
12.1 Toxicity					
Torphadine (Butorphanol	Endpoint	Test Duration	Species	Value	Source
Tartrate) Injection, 10 mg/mL	Not Available	Not Available	Not Available	Not Available	Not Available
htambanal tantuata	Endpoint	Test duration	Species	Value	Source
butorphanol tartrate	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test duration	Species	Value	Source
andium situata dibuduata	EC50(ECx)	48h	Crustacea	>50mg/l	2
sodium citrate dihydrate	EC50	48h	Crustacea	>50mg/l	2
	EC50	96h	Algae or other aquatic plants	>18000-32000mg/l	1
	Endpoint	Test duration	Species	Value	Source
	NOEC50(ECx)	168h	Crustacea	0.63mg/l	4
sodium chloride	EC50	72h	Algae or other aquatic plants	20.76-36.17mg/L	4
sodium chionde	EC50	48h	Crustacea	340.7-469.2mg/l	4
	LC50	96h	Fish	3644-4565mg/l	4
	EC50	96h	Algae or other aquatic plants	1110.36mg/L	4
citric ocid manchudrata	Endpoint	Test duration	Species	Value	Source
citric acid, monohydrate	EC10(ECx)	24h	Algae or other aquatic plants	>1000mg/l	4
benzethonium chloride	Endpoint	Test duration	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	0.12mg/l	2
	NOEC(Ex)	72h	Algae or other aquatic plants	0.038mg/l	2
	LC50 `	96h	Fish	1.4-53mg/l	Not Available
	Toxicity Data 2. E	urope ECHA Reg	istered Substances - Ecotoxicolog	gical Information - Aqu	atic Toxicity 3

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

DO NOT discharge into sewer or waterwa	ys.
--	-----

12.2 Persistence and degradability				
Ingredient	Persistence: Water/Soil Persistence: Air			
sodium chloride	LOW	LOW		
citric acid, monohydrate	LOW	LOW		
benzethonium chloride	HIGH	HIGH		
12.3 Bioaccumulative por	tential			
Ingredient	Bioaccumulation			
sodium chloride	LOW (LogKOW = $0.5392$ )			
citric acid, monohydrate	LOW (LogKOW = -1.64)	LOW (LogKOW = -1.64)		
benzethonium chloride	HIGH (LogKOW = 5.9969)			
12.4 Mobility in soil				
Ingredient	Mobility	Mobility		
sodium chloride	LOW (KOC = 14.3)			
citric acid, monohydrate	LOW (KOC = 10)	LOW (KOC = 10)		
benzethonium chloride	LOW (KOC = 443300)	LOW (KOC = 443300)		

### **SECTION 13: DISPOSAL CONSIDERATIONS**

## 13.1 Waste treatment methods

Product/ packaging disposal Hold all residues for recovery. Disposal of the material must be carried out in accordance with the requirements of the relevant Federal/State Act(s) or Code(s) regulating the disposal of Drugs of Addiction. Consult manufacturer/supplier for recycling options. Decontaminate empty containers with water; incinerate plastic bags. DO NOT reuse containers. Bury empty containers in an authorised landfill. Legislation addressing waste

Issue Date: 7 October 2022

Version No: 1

SDS according to OSHA HazCom Standard (2012) requirements (GHS.USA)



disposal requirements may differ by country. **DO NOT** allow wash water from cleaning or process equipment to

SECTION 14: TRANSPORT INFORMATION			
Labels required			
Marine pollutant N	0		
Land transport (US: DOT)			
Not regulated for transport of dan	gerous goods		
Land transport (ICAO-IATA / DGR)			
Not regulated for transport of dan	gerous goods		
Land transport IMDG-Code / GGVSee)			
Not regulated for transport of dangerous goods			
Transport in bulk according to Annex II of MARPOL and the IBC code			
Not Applicable			
Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code			
Product name	Group		
	No Data available for all ingredients		
Transport in bulk in accordance with the ICG Code			
Product name	Ship type		
	No Data available for all ingredients		

### **SECTION 15: REGULATORY INFORMATION**

### 15.1 Safety, health and environmental regulations / legislation specific for thesubstance or mixture

Product regulated by FDA as a veterinary product.

### butorphanol tartrate is found on the following regulatory lists

Not Applicable

## sodium citrate dihydrate is found on the following regulatory lists

US DOE Temporary Emergency Exposure Limits (TEELs), US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory, US TSCA Chemical Substance Inventory - Interim List of Active Substances

## sodium chloride is found on the following regulatory lists

US DOE TEELs, US TSCA - Chemical Substance Inventory, US TSCA Chemical Substance Inventory - Interim List of Active Substances

### citric acid, monohydrate is found on the following regulatory lists

US TSCA - Chemical Substance Inventory, US TSCA Chemical Substance Inventory - Interim List of Active Substances

### benzethonium chloride is found on the following regulatory lists

US TSCA - Chemical Substance Inventory, US TSCA Chemical Substance Inventory - Interim List of Active Substances

Federal Regulations			
Superfund Amendments and Reauthorization Act of 1986 (SARA)			
Section 311/312 hazard categories			
Flammable (Gases, Aerosols, Liquids, or Solids)	No		
Gas under pressure	No		
Explosive	No		
Self-heating	No		
Pyrophoric (Liquid or Solid)	No		
Pyrophoric Gas	No		
Corrosive to metal	No		
Oxidizer (Liquid, Solid or Gas)	No		
Organic Peroxide	No		
Self-reactive	No		
In contact with water emits flammable gas	No		
Combustible Dust	No		
Carcinogenicity	No		
Acute toxicity (any route of exposure)	No		
Reproductive toxicity	No		
Skin Corrosion or Irritation	Yes		
Respiratory or Skin Sensitization	No		
Serious eye damage or eye irritation	Yes		
Specific target organ toxicity (single or repeated exposure)	Yes		
Aspiration Hazard	No		
Germ cell mutagenicity	No		
Simple Asphyxiant	No		
Hazards Not Otherwise Classified	No		
US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)			
None reported	None reported		

Issue Date: 7 October 2022

Version No: 1

SDS according to OSHA HazCom Standard (2012) requirements (GHS.USA)



State Regulations	
US. California Proposition 65	
None reported	
National Inventory Status	
Australia - AIIC / Australia Non-Industrial Use	No (butorphanol tartrate)
Canada - DSL	No (butorphanol tartrate)
Canada - NDSL	No (butorphanol tartrate; sodium chloride; citric acid, monohydrate;
	benzethonium chloride)
China - IECSC	No (butorphanol tartrate)
Europe - EINEC / ELINCS /NLP	Yes
Japan - ENCS	No (butorphanol tartrate)
Korea - KECI	No (butorphanol tartrate)
New Zealand - NZIoC	Yes
Philippines - PICCS	No (butorphanol tartrate)
USA - TSCA	No (butorphanol tartrate)
Taiwan - TCSI	Yes
Mexico - INSQ	No (butorphanol tartrate)
Vietnam - NCI	No (butorphanol tartrate)
Russia - FBEPH	No (butorphanol tartrate)
Yes = All CAS declared ingredients are on the inventory	

No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will requireregistration

### SECTION 16: OTHER INFORMATION

Initial date: 7 October 2022 - Classification, Ingredients updated

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

### **Definitions and abbreviations**

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

IDLH: Immediately Dangerous to Life or Health Concentrations

AIIC: Australian Inventory of Industrial Chemicals

IECSC: Inventory of Existing Chemical Substance in China

EINECS: European INventory of Existing Commercial chemical Substances

ELINCS: European List of Notified Chemical Substances ENCS: Existing and New Chemical Substances Inventory

PICCS: Philippine Inventory of Chemicals and Chemical Substances

INSQ: Inventario Nacional de Sustancias Químicas

NCI: National Chemical Inventory

FBEPH: Russian Register of Potentially Hazardous Chemical and Biological

Substances

NZIoC: New Zealand Inventory of Chemicals

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit

ES: Exposure Standard OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index DSI: Domestic Substances List NDSL: Non-Domestic Substances List

NLP: No-Longer Polymers

KECI: Korea Existing Chemicals Inventory TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory

The information provided in this Safety Data Sheet has been compiled by Dechra Veterinary Products LLC and is correct to the best of its knowledge, information and belief as of the date of its publication. However, Dechra Veterinary Products LLC makes no warranties, express or implied, in relation to the information set out in this Safety Data Sheet, including, without limitation, as to its accuracy or completeness. The information provided is not a quality specification, and is prepared by way of guidance as to the safe handling, use, processing, storage, transportation, disposal and release of the relevant products referred to. The user is responsible for determining whether or not the product is fit for any particular purpose and/or suitable for the user's proposed method of use and application.

Copyright, 2022 Dechra Veterinary Products LLC. All rights reserved.

Copying and/or downloading of this information for the purpose of properly utilizing Dechra Veterinary Products LLC products is permitted provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained Dechra Veterinary Products LLC, and (2) neither the copy nor the original is resold or otherwise distributed for the purposes of making a profit thereon.