# **SAFETY DATA SHEETS**

# This SDS packet was issued with item:

078949113

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078949421

Issue Date: 7 October 2022

Version No: 1

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



SECTION 1: IDENTIFICATION		
44.5		
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	Not Available	
1.2 Recommended use of the chemic	cal 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 subs	tance 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

# 2.2 Label elements

Hazard pictogram(s)



Signal word	Warning	
Hazard statement(s)		
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

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

Organ Toxicity - Repeated Exposure Category 2

# 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

# Precautionary statement(s) disposal

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

# SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS 3.1 Substances See section above for composition of Mixtures. 3.2 Mixtures CAS No. % [weight] Name

CAS No.	% [weight]	Name
58786-99-5	1-5	<u>butorphanol tartrate</u>
6132-04-3	<1	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	<u>benzethonium chloride</u>	
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				
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.			
	4.2 Most important symptoms and effects, both acute and delayed  See section 11			
Treat sympto The single most the administrate levallorphan or all semi-synthe In fully conscie amount of the	of immediate medical attention and special treatment needed matically for a narcotic analgesic.  In timportant element in therapy is the correction of anoxia by all available means: the maintenance of a patent airway,  tion of oxygen, the use of artificial respiration, and the injection of specific narcotic antagonists such as nalorphine,  naloxone promptly antagonizes the respiratory depression, coma and hypotension from overdoses of morphine, codeine,  tics and almost all synthetic narcotics. — GOSSELIN et al: Clinical Toxicology of Commercial Products.  The chances of removing a significant  drug are better if treatment is started within the first two hours. If the patient is unconscious or depressed, emesis is  and the dangers of gastric lavage are not justified. — DREISBACH AND ROBERTSON: Handbook of Poisoning, Appleton			

# **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: Firefighting | Wear full body protective clothi

fighting	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.
plosion	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: ACCI	DENTAL RELEASE MEASURES		
6.1 Personal precau	tions, protective equipment and emergency procedures		
See Section 8			
6.2 Environmental p	precautions		
See Section 12			
6.3 Methods and ma	terial 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	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	e 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	NOTE: Special security requirements may be mandated under Federal/State Regulation(s). 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 safe	7.2 Conditions for safe 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		

	CONTRO	LS / PERSONAL PROTECTION		
8.1 Control parameters				
Occupational exposure limit INGREDIENT DATA Not Available	s (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		pational Exposure Band Rating	Occupational Ex	posure 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			≤ 0.01 mg/m³	
<b>Notes:</b> 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			<u> </u>	<u> </u>
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).				
8.2 Exposure controls				
		ocal exhaust ventilation is required at p		
		local exhaust ventilation should be con arrier protection or laminar flow cabine		
	handling.	anner protection of familial now cability	ata andulu de consi	dered for laboratory State
Personal protection	ma.			

Appropriate engineering controls	Enclosed local exhaust ventilation is required at points of dust, fume or vapor generation. HEPA 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 national equivalent) is recommended. When only brief contact is expected, a glove with a protectass of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS 2161.10.1 or national equivalent) is recommended. For general applications, gloves we		
	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

<b>SECTION 11: T</b>	OXICOLOGIC	AL INFORMATION	
Inhalation	Evidence shows, or practical experience predicts, that the material produces irritation of the respiratory system, if inhaled. Not normally a hazard due to non-volatile nature of product.		
Ingestion	Accidental inge	estion of the material may be damaging to	the health of the individual. The commonest side-
	effects of narco	otic analgesics (including morphine) are nau	sea, vomiting, constipation, dizziness, drowsiness,
	sedation, euph	oria and confusion.	
Skin contact	Evidence exist	s, or practical experience predicts, that	the material either produces inflammation of the
	skin in a subst	antial number of individuals following direc	t contact, and/or produces significant inflammation.
Eye contact			e material may cause eye irritation in a substantial
			ular lesions which are present twenty-four hours or
			als. Repeated or prolonged eye contact may cause
		, , , ,	ar to windburn) of the conjunctiva (conjunctivitis);
		airment of vision and/or other transient eye	
Chronic			produce cumulative health effects involving organs
			tory irritants may result in disease of the airways
	involving difficu	ult breathing and related systemic problem	S
Butorphanol Ta	rtrate Injection,	Acute toxicity	Irritation
	10 mg/mL	Not Available	Not Available
buto	rnhanal tartrata	Acute toxicity	Irritation
butorphanol tartrate Oral (dog) LD50: >50 mg/kg <sup>[2]</sup> Not Available		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>	
	sodium chloride	Acute toxicity	Irritation

Issue Date: 7 October 2022

Version No: 1

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



	Dermal (rabbit) LD50: >1000 Inhalation (rat) LD50: >10.5 Oral (rat) LD50: 3000 mg/kg	mg/kg <sup>[1]</sup>	Eye (rabbit): 10 mg – moderate Eye (rabbit):100 mg/24h – moderate Skin (rabbit): 500 mg/24h - mild	;
citric acid, monohydrate	Acute toxicity		Irritation	
citile acid, monoriyurate	Oral (mouse) LD50: 5790 mg/kg <sup>[2]</sup>		Eye (rabbit): 5 mg/30s mild	
	Acute toxicity		Irritation	
	Dermal (rabbit) LD50: 3000		Eye (rabbit): 0.03 mg – SEVERE	
benzethonium chloride	Oral (rat) LD50: 295 mg/kg[1]	al (rat) LD50: 295 mg/kg <sup>[1]</sup> Eye: no adverse effect observed (not irritating) <sup>[1]</sup>		ot irritating) <sup>[1]</sup>
			Skin (rabbit): SEVERE*	
			Skin: adverse effect observed (corro	osive) <sup>[1]</sup>
1 Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Re		ed from RTECS - Register of Toxic Effect	of chemical	
Substances				
Acute Toxicity	*		Carcinogenicity	*
Skin Irritation/Corrosion	✓		Reproductivity	×
Serios Eye Damage/Irritation	✓		STOT – Single Exposure	×
Respiratory or Skin Sensitization	×		STOT – Repeated Exposure	✓
Mutagenicity	×	•	Aspiration Hazard	×
- Data either not available or doe	s not fill the criteria for classificatio	n, 🗸 - Data avail	able to make classification.	•

SECTION 12: ECOLOG	SICAL INFORM	ATION			
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
h. damah an al 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 nitrata dibudrata	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
oitric acid manchudrata	Endpoint	Test duration	Species	Value	Source
citric acid, monohydrate	EC10(ECx)	24h	Algae or other aquatic plants	>1000mg/l	4
	Endpoint	Test duration	Species	Value	Source
became allocations and best and a	EC50	72h	Algae or other aquatic plants	0.12mg/l	2
benzethonium chloride	NOEC(Ex)	72h	Algae or other aquatic plants	0.038mg/l	2
	LC50	96h	Fish	1.4-53mg/l	Not Available
			istered Substances - Ecotoxicolog		

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.
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12.2 Persistence and deg	gradability		
Ingredient	Persistence: Water/Soil Persistence: Air		
sodium chloride	LOW	LOW	
citric acid, monohydrate	LOW	LOW	
benzethonium chloride	HIGH	HIGH	
12.3 Bioaccumulative po	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		
sodium chloride	LOW (KOC = 14.3)	LOW (KOC = 14.3)	
citric acid, monohydrate	LOW (KOC = 10)	LOW (KOC = 10)	
benzethonium chloride	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 dan	gerous 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 (SAR	A)
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 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	s (40 CFR 302.4)

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)

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

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