SAFETY DATA SHEETS

This SDS packet was issued with item:

078946240

N/A

Product Name: Tzed™ (tiletamine and zolazepam for injection) Issue Date: 3/2022

Issue Date: 3/2022 Version No: 2022-1



SECTION 1: IDENTIFICATION				
1.1 Product identifier				
Product name	Tzed™ (tiletamine and zolazepam for injection)			
Chemical name	Not applicable			
Synonyms	Tiletamine and Zolazepam for injection			
Chemical formula	Not applicable			
Other means of identification	Not available			
1.2 Relevant identified uses of the s	substances or mixture and uses advised against			
Recommended uses	Restraint or anesthesia in dogs and cats			
Uses advised against Not for human use				
1.3 Details of the supplier of the sul	ostance 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)	Dechra (US) 866-933-2472			

SECTION 2: HAZARD	O(S) IDENTIFICATION
	(0) 12 20000 10000
2.1 Classification of the	ne substance or mixture
NFPA 704 diamond	
100	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	Reproductive Toxicity Category 2
2.2 Label elements	
Hazard pictogram(s)	
Signal work	Warning
Hazard statement(s)	
H361	Suspected of damaging fertility or the unborn child.
Hazard(s) not otherw Not Applicable	ise classified
Precautionary statem	nent(s) Prevention
P201	Obtain special instructions before use.
Precautionary statem	nent(s) Response
P308+P313	IF exposed or concerned: Get medical advice/ attention.
Precautionary statem	
P405	Store locked up.
Precautionary statem	`
P501	Dispose of contents/container to authorised hazardous or special waste
	collection point in accordance with any local regulation.

Product Name: Tzed™ (tiletamine and zolazepam for injection) Issue Date: 3/2022



SECTION 3: COMPOSITION/INFORMATION ON THE INGREDIENTS					
3.1 Substances					
See section belo	w for composition of Mixtur	es			
3.2 Mixtures					
CAS No	% [weight}	Name			
69-65-8	<10	<u>mannito</u> l			
14176-50-2	<7	tiletamine hydrochloride			
33754-49-3	<7	zolazepam hydrochloride			
7732-18-5 >80 <u>water</u>					
The exact percentage of composition has been withheld as a trade secret.					

SECTION 4: FIRST AID MEASURES					
4.1 Description	n of first aid measures				
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician				
	if irritation persist.				
Skin contact	Wash off with soap and plenty of water. Consult a physician if irritation persist.				
Inhalation	The risk of inhalation exposure is negligible when product is in its final packaged				
	form. If exposed and become symptomatic, move to fresh air and get medical				
	attention if symptoms persist.				
Ingestion	Rinse mouth with water. If swallowed do NOT induce vomiting. Consult a physician.				
4.2 Most important symptoms and effects, both acute and delayed					
See Section 11					
4.3 Indication of any immediate medical attention and special treatment needed:					
Treat symp	tomatically.				

SECTION 5: FIRE-FI	GHTING MEASURES				
5.1 Extinguishing me	5.1 Extinguishing media				
The product contains	s 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.				
5.2 Special hazards a	rising from the substance or mixture				
Fire Incompatibility None known					
5.3 Special protectiv	e equipment and precautions for fire-fighters				
Fire Fighting	Alert Fire Brigade and tell them location and nature of hazard. Use fire				
	fighting procedures suitable for surrounding area.				
Fire/Explosion	Not considered flammable but may burn at high temperatures. Product is not				
Hazard	Hazard explosive. Decomposes on heating and may produce toxic fumes of				
	carbon monoxide, hydrogen chloride, phosgene, nitrogen oxides (NOx),				
	other pyrolysis products typical of burning organic material. May emit				
	poisonous fumes.				

Product Name: Tzed™ (tiletamine and zolazepam for injection) Issue Date: 3/2022



SECTION 6: ACC	CIDENTAL RELEASE MEASURES		
	ecautions, protective equipment and emergency procedures t with skin, eyes, or clothing. Avoid breathing vapor, mist, or spray.		
Also see Sec			
6.2 Environmen			
	to sewers and public waters.		
Also see Sec	tion 12		
6.3 Methods and	I material for containment and cleaning up		
Minor spills	Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal.		
Major spills Clear area of personnel and move upwind. Alert Fire Brigade about the hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering 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. Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains.			
Personal Protect	ive Equipment advice is contained in Section 8 of the SDS.		

SECTION 7: HANDLING	SECTION 7: HANDLING AND STORAGE			
7.1 Precautions for safe	handling			
Safe handling	Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. 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.			
Other information				
7.2 Conditions for safe storage, including any incompatibilities				
Suitable container	Packaging as recommended by manufacturer. Glass container is suitable for laboratory quantities.			
Storage incompatibility	Avoid reaction with oxidising agents Avoid strong acids, bases.			

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION					
8.1 Control parameters					
Occupational Exposure Limits (OEL) INGREDIENT DATA – Not available					
Emergency Limits					
Ingredient TEEL-1 TEEL-2 TEEL-3					
Tzed™ (tiletamine and zolazepam for injection) Not Available Not Available Not Available					
Ingredient	Original IDLH		Revised IDLH		

Product Name: Tzed™ (tiletamine and zolazepam for injection) Issue Date: 3/2022



mannitol	Not Available	Not Available	
tiletamine hydrochloride	Not Available	Not Available	
zolazepam hydrochloride	Not Available	Not Available	
water	Not Available	Not Available	
8.2 Exposure controls			
Appropriate engineering	Enclosed local exhaust ventilation is required at points of dust, fume		
controls	or vapour generation. Ensure ad	equate ventilation, especially in	
	confined areas. Emergency eye wa		
	should be available in the immediate		
	Ensure all national/local regulations a	are observed.	
Personal protective equipment			
Eye and face protection	When handling very small quantities of the material eye protection		
	may not be required. For laboratory, larger scale or bulk handling or		
	where regular exposure in an occupational setting occurs: chemical		
	goggles, face shield, full face shield may be required. Contact lenses		
	may pose a special hazard.		
Skin protection	See Hand protection below.		
Hand/feet protection	skin contact with drug product is		
	possible.		
Body protection	See Other protection below		
Other protection	For quantities up to 500 grams a lab	oratory coat may be suitable.	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES				
9.1 Information on basic physical and chemica	I properties			
Appearance: Clear to pale yellow solution	Vapor density: NA			
Physical state: Liquid	Auto ignition temperature (degrees C): NA			
Odor: Not Available	Decomposition temperature (degrees C): NA			
Odor threshold: NA	Viscosity (degrees C): NA			
pH (as supplied): <3.5	Explosive properties: None			
Melting point / freezing point (degrees C): NA Oxidizing properties: None				
Initial boiling point and boiling range: NA	Partition coefficient: NA			
Flash point: NA	Molecular weight: NA			
Evaporation rate: NA	Taste: NA			
Flammability: NA	Surface tension: NA			
Upper / lower flammability or explosive limits:	Volatile component: NA			
NA	Gas group: NA			
Vapor pressure: NA	pH as a solution: NA			
Relative density (at degrees C): NA VOC g/L: NA				
Solubility in water and solvents (mg/l): Miscible	Specific gravity @ 20 degrees C (water = 1):			
	NA			

Product Name: Tzed™ (tiletamine and zolazepam for injection) Issue Date: 3/2022

Version No: 2022-1



10: REACTIVITY AND STABILITY	
10.1 Reactivity	See section 7
10.2 Chemical stability	Unstable in the presence of incompatible materials. Hazardous polymerisation will not occur under normal conditions.
10.3 Possibility of hazardous reactions	See section 7
10.4 Conditions to avoid	See section 7
10.5 Incompatible materials	See section 7
10.6 Hazardous decomposition products	See section 5

SECTION 1	1: TOXICOLOG	ICAL INFO	RMATIO)N		
11.1 Inforn	nation on toxico					
Inhaled					Illy for prolonged perio	ods, may
	produce respira					
Ingestion					g to the health of the inc	
Skin					ged or repeated expo-	
Contact			in rednes	ss, swelling, the	e production of vesicles	s, scaling
	and thickening				50.5.	
Eye					as classified by EC Dir	
					comfort characterised b	y tearing
Chronic	or conjunctival				re is a suspicion this	motorial
Cilionic					animal studies, exposu	
					ent of the foetus, at leve	
	do not cause si				int of the foctus, at leve	713 WITHOIT
	d (tiletamine and	TOXICITY	0 0110010	to the motilei	IRRITATION	
	oam for injection)	Not Available			Not Available	
ZUIAZEL	an or injection)	TOXICITY			IRRITATION	
	mannitol		Oral (Rat) LD ₅₀ : 13500 mg/kg ^[2]		Not Available	
		TOXICITY		IRRITATION		
tiletamir	ne hydrochloride		Not Available		Not Available	
		TOXICITY		IRRITATION		
zolazepa	m hydrochloride	Not Availabl			Not Available	
		TOXICITY			IRRITATION	
	water		D ₅₀ : >90	0000 mg/kg ^[2] Not Available		
		Europe ECHA	A Registere	ed Substances - A	Acute toxicity 2.* Value ob	
	nufacturer's SDS. Ur emical Substances	nless otherwise	specified (data extracted fror	n RTECS - Register of Tox	ic Effect of
Tzed (tileta	mine andzolaze _l	oam for injec	ction)	No significa		al data
				identified in lit	erature search.	
Acute Toxicity			X	Carcinogenicity x		
Skin Irritation/Corrosion			X	Reproductivity ✓		✓
Serious Eye Damage/Irritation			X		OT - Single Exposure	X
				- Repeated Exposure	X	
		utagenicity	X		Aspiration Hazard	X
Lege	end: X - Data either r	ot available or doe	es not fill the o	criteria for classificatio	n	
	 ✓ - Data availai 	ble to make classii	fication			

Page 5 of 9

Product Name: Tzed™ (tiletamine and zolazepam for injection) Issue Date: 3/2022



SECTION 12: ECOLOGICAL INFORMATION									
12.1 Toxicity									
	(tiletamine			Test Duration (hr) Spe		3	Value	Source	
		Not Avai			Not Available		Not Available	Not Available	
injection)									
		Endpoir		Test Duration (hr)	Species		Value	Source	
		EC10(E	Cx)	168h	Algae or		4773.64 mg/L	4	
				aquatio					
	tiletamine End			Test Duration (hr)	Species		Value	Source	
		Not Available		Not Available	Not Ava		Not Available	Not Available	
zolazepam		Endpoint		Test Duration (hr)	Species		Value	Source	
hydrochloride		Not Available		Not Available	Not Ava		Not Available	Not Available	
	water	Endpoint		Test Duration (hr)	Species		Value Not Available	Source Not Available	
Not Available No									
Legena.				Ecotox database - Aqua					
				ncentration Data 7. MET					
DO NOT	discharge i	nto sewe	er or v	vaterways					
	sistence a								
Ingredient			Persistence: Water/Soil			Persistence: Air			
mannitol			LOW			LOW			
tiletamine hydrochloride			HIGH			HIGH			
water				LOW			LOW		
12.3 Bioaccumulative potential									
			Bioaccumulation						
			LOW (LogKOW = -3.0108)						
			LOW (LogKOW = 2.7904)						
12.4 Mobility in soil									
Ingredient			Mobility						
mannitol			LOW (KOC = 10)						
tiletamine hydrochloride			LOW (KOC = 1013)						

SECTION 13: DISPOSAL CONSIDERATIONS		
13.1 Waste treatment methods		
Product/Packaging disposal	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. DO NOT allow wash water from cleaning or process equipment to enter drains.	

SECTION 14: TRANSPORT INFORMATION				
14.1 Labels required				
Marine Pollutant	NO			
14.2 Land transport (DOT)	: Not regulated for transport of dangerous goods			
14.3 Air transport (ICAO-IATA / DGR): Not regulated for transport of dangerous goods				
14.4 Sea transport (IMDG-Code / GGVSee): Not regulated for transport of dangerous goods				
14.5 Transport in bulk according to Annex II of MARPOL and the IBC code: Not Applicable				

Product Name: Tzed™ (tiletamine and zolazepam for injection)

Issue Date: 3/2022 Version No: 2022-1



14.6 Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code				
Product name	Ship Type			
mannitol	Not Available			
tiletamine hydrochloride	Not Available			
zolazepam hydrochloride	Not Available			
water	Not Available			
14.7 Transport in bulk in accordance with ICG Code				
Product name	Ship Type			
mannitol	Not Available			
tiletamine hydrochloride	Not Available			
zolazepam hydrochloride	Not Available			
water	Not Available			

SECTION 15: REGULATORY INFORMATION

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

mannitol is found on the following regulatory lists

US List of Active Substances Exempt from the TSCA Inventory Notifications (Active-Inactive) Rule, US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory, US TSCA Chemical Substance Inventory - Interim List of Active Substances

tiletamine hydrochloride is found on the following regulatory lists

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

zolazepam hydrochloride is found on the following regulatory lists Not Applicable

water is found on the following regulatory lists

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory, US TSCA Chemical Substance Inventory - Interim List of Active Substances

15.2 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 Yes Skin Corrosion or Irritation No Respiratory or Skin Sensitization No Serious eye damage or eye irritation No

Product Name: Tzed™ (tiletamine and zolazepam for injection)

Issue Date: 3/2022 Version No: 2022-1



Specific target organ toxicity (single or repeated exposure)	No
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

State Regulations

US. California Proposition 65 None Reported

National Inventory Status				
National Inventory	Status			
Australia - AIIC / Australia Non-	No (tiletamine hydrochloride; zolazepam hydrochloride)			
Industrial Use				
Canada - DSL	No (tiletamine hydrochloride; zolazepam hydrochloride)			
Canada - NDSL	No (mannitol; tiletamine hydrochloride; zolazepam			
	hydrochloride; water)			
China - IECSC	No (tiletamine hydrochloride; zolazepam hydrochloride)			
Europe - EINEC / ELINCS / NLP	No (tiletamine hydrochloride)			
Japan - ENCS	No (tiletamine hydrochloride; zolazepam hydrochloride)			
Korea - KECI	No (tiletamine hydrochloride; zolazepam hydrochloride)			
New Zealand - NZIoC	Yes			
Philippines - PICCS	No (tiletamine hydrochloride; zolazepam hydrochloride)			
USA - TSCA	No (tiletamine hydrochloride; zolazepam hydrochloride)			
Taiwan - TCSI	Yes			
Mexico - INSQ	No (tiletamine hydrochloride; zolazepam hydrochloride)			
Vietnam - NCI	No (tiletamine hydrochloride; zolazepam hydrochloride)			
Russia - FBEPH	No (tiletamine hydrochloride; zolazepam hydrochloride)			
	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 require registration.			

SECTION 16: OTHER INFORMATION

Classification of the preparation and its individual components has drawn on an independent review by the Chemwatch Classification committee using available literature references.

Definitions and abbreviations

ACGIH: American Conference of Governmental Industrial Hygienists

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

TLV: Threshold Limit Value BCF: BioConcentration Factors

AIIC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List

NDSL: Non-Domestic Substances List

IECSC: Inventory of Existing Chemical Substance in China

EINECS: European INventory of Existing Commercial chemical Substances

ELINCS: European List of Notified Chemical Substances

NLP: No-Longer Polymers

ENCS: Existing and New Chemical Substances Inventory

KECI: Korea Existing Chemicals Inventory

Product Name: Tzed™ (tiletamine and zolazepam for injection)

Issue Date: 3/2022 Version No: 2022-1



NZIoC: New Zealand Inventory of Chemicals

PICCS: Philippine Inventory of Chemicals and Chemical Substances

TSCA: Toxic Substances Control Act

TCSI: Taiwan Chemical Substance Inventory

INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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 SDS, including, without limitation, as to its accuracy/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.