SECTION 1: IDENTIFICATION

1.1 Product identifier	
Product name	Pentobarsol C-II Solution
Chemical name	Pentobarbital sodium
Synonyms	Not Available
Proper shipping name	Toxic, liquids, organic, n.o.s. (contains pentobarbital sodium)
Chemical formula	Not Applicable
Other means ofidentification	Not Available
1.2 Recommended use of the chemical and restrictions on use	
Relevant identified uses	For use in dogs for humane, painless, and rapid euthanasia. A schedule II controlled drug used for euthanasia in dogs only. Not for use in humans.
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	Acute Toxicity (Oral) Category 3, Skin Corrosion/Irritation Category 2, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 2A, Carcinogenicity Category 2, Reproductive Toxicity Category 2, Hazardous to the Aquatic Environment Long-Term Hazard Category 3
2.2 Label elements	
Hazard pictogram(s)	
Signal word	**Danger**
Hazard statement(s)	
H301	Toxic if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H412	Harmful to aquatic life with long lasting effects.
Hazard(s) not otherwise classified	
This product is toxic to wildlife. Birds and mammals feeding on euthanized animals may be killed. Euthanized animals must be properly disposed of by deep burial, incineration or other method in compliance with state and local laws, to prevent consumption of carcass material by scavenging wildlife.	
Precautionary statement(s) Prevention	
P201	Obtain special instructions before use.
P264	Wash all exposed external body areas thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P261	Avoid breathing mist/vapors/spray.
P273	Avoid release to the environment.
P202	Do not handle until all safety precautions have been read and understood.
P272	Contaminated work clothing must not be allowed out of the workplace.
Precautionary statement(s) Response	
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider.
P308+P313	IF exposed or concerned: Get medical advice/ attention.
P330	Rinse mouth.
P305+P351+ P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
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	
P405	Store locked up.
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
57-33-0	30-40	pentobarbital sodium
57-55-6	10-20	propylene glycol
67-63-0	1-10	isopropanol
100-51-6	1-5	benzyl alcohol
7647-14-5	NotSpec	sodium chloride
Not Available	balance	Ingredients determined not to be hazardous

Sodium chloride: Sodium hydroxide and hydrochloric acid used to adjust pH
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	Immediately rinse eyes thoroughly with plenty of water. If wearing contact lenses, remove only after initial rinse, and continue rinsing eyes for at least 15 minutes. If irritation occurs or persists, consult a physician.
Skin contact	While wearing protective gloves, carefully remove any contaminated clothing, including shoes, and wash skin thoroughly with soap and water. If irritation or symptoms occur or persist, consult a physician.
Inhalation	Immediately remove the victim to fresh air. If any trouble breathing, get immediate medical attention. Administer artificial respiration if breathing has ceased. If irritation or symptoms occur or persist, consult a physician.
Ingestion	Do not induce vomiting unless under the direction of a qualified medical professional or Poison Control Center. IMMEDIATELY consult a physician. Do not attempt to give anything by mouth to a seizing, drowsy or unconscious person. If alert, rinse mouth and drink a glass of water.

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

Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable media include alcohol stable foam, dry chemical powder, BCF (where regulation permits), carbon dioxide. Use water spray or for large fires only.

5.2 Special hazards arising from the substance or mixture

Fire incompatibility	Avoid contamination with oxidising agents i.e., nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result.

5.3 Special protective actions for fire-fighters:

Firefighting	Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. 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.
Fire/explosion hazard	Combustible. Slight fire hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide. May emit acrid smoke. Mists containing combustible materials may be explosive. Combustion products include: carbon monoxide, carbon dioxide, nitrogen oxides, metal oxides, other pyrolysis products typical of burning organic material. May emit poisonous fumes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Pentobarbital Sodium is a physiologically active drug substance, it is toxic if ingested. See section 8.

6.2 Environmental precautions

Do not let product enter drains, sewers, watercourses, soil or vegetation. See Section 12

6.3 Methods and material for containment and cleaning up

Minor spills	Remove all ignition sources. 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	Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. 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. Neutralise/decontaminate residue (see Section 13 for specific agent). If contamination of drains or waterways occurs, advise emergency services.
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 contact with skin and eyes. Avoid formation of dust and aerosols. When handling, **DO NOT** eat, drink or smoke. Provide appropriate exhaust ventilation in places where dust and aerosols are formed. Observe manufacturer's storage and handling recommendations contained within this SDS.
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. Keep storage area free from debris, wastes and combustibles. Keep dry. Keep containers securely sealed. Protect containers against physical damage. Check regularly for spills and leaks.

7.2 Conditions for safe storage, including any incompatibilities

Suitable container	Keep container tightly closed in a dry and well ventilated place. Store between 15-30°C (59-86°F).
Storage incompatibility	Store upright and out of direct sunlight. Store away from ignition sources. Wash face, hands, and any exposed skin after handling. Do not eat, drink, or smoke when using this substance or mixture.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits (OEL)
INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Limits Table Z-1	isopropanol	Isopropyl alcohol	400 ppm / 980 mg/m^3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits	isopropanol	Isopropyl alcohol	400 ppm / 980 mg/m^3	1225 mg/m^3 / 500 ppm	Not Available	Not Available

Emergency limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
propylene glycol	30 mg/m^3	1,300 mg/m^3	7,900 mg/m^3
isopropanol	400 ppm	2000* ppm	12000** ppm
benzyl alcohol	30 ppm	52 ppm	740 ppm
sodium chloride	0.5 ppm	2 ppm	20 ppm

Ingredient	Original IDLH	Revised IDLH
pentobarbital sodium	Not Available	Not Available
propylene glycol	Not Available	Not Available
isopropanol	2,000 ppm	Not Available
benzyl alcohol	Not Available	Not Available
sodium chloride	Not Available	Not Available

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
pentobarbital sodium	E	≤ 0.01 mg/m³
propylene glycol	E	≤ 0.1 ppm
benzyl alcohol	E	≤ 0.1 ppm
sodium chloride	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

8.2 Exposure controls

Appropriate engineering controls	Use with adequate ventilation. Follow standard medical product handling procedures. During decontamination of work surfaces, workers should wear the same equipment recommended in Section 6 (Accidental Release Measures) of this SDS. Solutions can be handled outside a containment system or without local exhaust ventilation during procedures with no potential for aerosolization. If the procedures have a potential for aerosolization, an air-purifying respirator is to be worn by all personnel in the immediate area. For laboratory-scale handling of substances assessed to be toxic by inhalation: quantities of up to 25 g may be handled in Class II biological safety cabinets; quantities of 25 g to 1 kg may be handled in Class II biological safety cabinets or equivalent containment systems; quantities exceeding 1 kg may be handled either using specific containment, a hood or Class II biological safety cabinet. Wear appropriate gloves; lab coat, nylon coveralls or disposable Tyvek suit; safety glasses, safety shoes, and disposable booties. Use good manufacturing practices.

Personal protection	
Eye and face protection	For laboratory, larger scale or bulk handling or where regular exposure in an occupational setting occurs use 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	Use elbow length PVC gloves. **NOTE:** The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact. Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed. Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent). When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or 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.
Body protection	See Other protection below.
Other protection	During patient administration, use of lightweight cotton gown or other medical attire is recommended. For quantities up to 500 g a laboratory coat may be suitable. For quantities up to 1 kg a disposable laboratory coat or coverall of low permeability is recommended. Coveralls should be buttoned at collar and cuffs. For quantities over 1 kg 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. Train employees concerning hazards and precautions. Provide adequate exhaust ventilation. Wash hands and forearms after each use. Use indicated protective equipment while handling. Change respirator cartridges after four hours of continuous use or upon detection of an increase in breathing resistance or eye or nasal irritation.
Respiratory protection	A respirator is not required for routine conditions of use of this product. Respiratory protective equipment (RPE) may be required for certain laboratory and large-scale manufacturing tasks if potential airborne breathing zone concentrations of substances exceed the relevant exposure limit(s). Workplace risk assessment should be completed before specifying and implementing RPE usage. If respiratory protection is needed, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, or Canadian CSA Standard Z94.4-02.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: Clear green liquid with slight odor	Auto ignition temperature (°C): Not Available
Physical state: Liquid	Decomposition temperature (°C): Not Available
Odor: No odor	Viscosity (°C): Not Available
Odor threshold: Not Available	Explosive properties: Not Available
pH (as supplied): Not Available	Oxidizing properties: Not Available
Melting point / freezing point (°C): Not Available	Partition coefficient: Not Available
Initial boiling point and boiling range: Not Available	Molecular weight: Not Available
Flash point (°C): Not Available	Taste: Not Available
Evaporation rate: Not Available	Surface tension: Not Available
Flammability: Not Available	Volatile component (%vol): Not Available
Upper/lower flammability or explosive limits: Not Available	Gas group: Not Available
Vapor pressure: Not Available	pH as a solution: Not Available
Relative density (Water = 1): Not Available	VOC g/L: Not Available
Solubility in water (mg/l): Not Available	Specific gravity @ 20 °C (water = 1): Not Available
Vapor density: Not Available	

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	Open flames and high temperatures. See Section 7
Incompatible materials	As a precautionary measure, keep away from strong oxidizers. See Section 7
Hazardous composition	See Section 5

SECTION 11: TOXICOLOGICAL INFORMATION

Inhalation	Inhalation of vapors or aerosols (mists, fumes), generated by the material during the course of normal handling, may produce serious damage to the health of the individual.

Ingestion	Toxic effects may result from the accidental ingestion of the material.
Skin contact	The material may produce skin inflammation.
Eye contact	The material may cause eye irritation.
Chronic	May cause damage to health by prolonged exposure.

Pentobarsol C-II Solution	**Acute toxicity**	**Irritation**
	Not Available	Not Available
pentobarbital sodium	**Acute toxicity**	**Irritation**
	Oral (rat) LD50: 118 mg/kg[2]	Not Available
propylene glycol	**Acute toxicity**	**Irritation**
	Dermal (rabbit) LD50: 11890 mg/kg[2] Inhalation (rat) LC50: ≥44.9 mg/kg[2] Oral (rat) LD50: 20000 mg/kg[2]	Eye (rabbit): 100 mg - mild Eye (rabbit): 500 mg/24h - mild Eye: no adverse effect observed (not irritating)[1] Skin(human):104 mg/3d Intermit Mod Skin(human):500 mg/7days mild Skin: no adverse effect observed (not irritating)[1]
isopropanol	**Acute toxicity**	**Irritation**
	Dermal (rabbit) LD50: 12800 mg/kg[2] Inhalation (mouse) LC50: 53 mg/kg[2] Oral (mouse) LD50: 3600 mg/kg[2]	Eye (rabbit): 10 mg - moderate Eye (rabbit): 100 mg - SEVERE Eye (rabbit): 100mg/24hr-moderate Skin (rabbit): 500 mg - mild
benzyl alcohol	**Acute toxicity**	**Irritation**
	Dermal (rabbit) LD50: 2000 mg/kg[2] Inhalation (rat) LC50: >4.178 mg/kg[1] Oral (rat) LD50: 1230 mg/kg[2]	Eye (rabbit): 0.75 mg open SEVERE Eye: adverse effect observed (irritating)[1] Skin (man): 16 mg/48h-mild Skin (rabbit):10 mg/24h open-mild Skin: no adverse effect observed (not irritating)[1]
sodium chloride	**Acute toxicity**	**Irritation**
	Dermal (rabbit) LD50: ≥10000 mg/kg[2] Inhalation (rat) LC50: ≥10.5 mg/kg[1] Oral (rat) LD50: 3000 mg/kg[2]	Eye (rabbit): 10 mg - moderate Eye (rabbit):100 mg/24h - moderate Skin (rabbit): 500 mg/24h - mild

1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. 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	✓
Serios Eye Damage/Irritation	✓	STOT – Single Exposure	✘
Respiratory or Skin Sensitization	✓	STOT – Repeated Exposure	✘
Mutagenicity	✘	Aspiration Hazard	✘

✘ - Data either not available or does not fill the criteria for classification, ✓ - Data available to make classification.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Pentobarsol C-II Solution	**Endpoint**	**Test Duration**	**Species**	**Value**	**Source**
	Not Available	Not Available	Not Available	Not Available	Not Available
pentobarbital sodium	**Endpoint**	**Test duration**	**Species**	**Value**	**Source**
	NOEC(ECx)	360h	Fish	1mg/l	4
propylene glycol	**Endpoint**	**Test duration**	**Species**	**Value**	**Source**
	NOEC(ECx)	336h	Algae or other aquatic plants	<5300mg/	1
	EC50	72h	Algae or other aquatic plants	19300mg/l	2
	EC50	48h	Crustacea	>114.4mg/L	4
	LC50	96h	Fish	>10000mg/l	2
	EC50	96h	Algae or other aquatic plants	19000mg/l	2
isopropanol	**Endpoint**	**Test duration**	**Species**	**Value**	**Source**
	EC50(ECx)	24h	Algae or other aquatic plants	0.011mg/L	4
	EC50	72h	Algae or other aquatic plants	>1000mg/l	1
	EC50	48h	Crustacea	7550mg/l	4
	LC50	96h	Fish	4200mg/l	4
	EC50	96h	Algae or other aquatic plants	>1000mg/l	1
benzyl alcohol	**Endpoint**	**Test duration**	**Species**	**Value**	**Source**
	EC50	72h	Algae or other aquatic plants	500mg/l	2
	EC50	48h	Crustacea	230mg/l	2
	NOEC/(ECx)	336h	Fish	5.1mg/l	2
	LC50	96h	Fish	10mg/l	2
	EC50	96h	Algae or other aquatic plants	76.828mg/l	2
sodium chloride	**Endpoint**	**Test duration**	**Species**	**Value**	**Source**
	NOEC(ECx)	168h	Crustacea	<0.63mg/l	4
	EC50	72h	Algae or other aquatic plants	20.76-36.17mg/L	4
	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

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 waterways.

12.2 Persistence and degradability		
Ingredient	**Persistence: Water/Soil**	**Persistence: Air**
pentobarbital sodium	HIGH	HIGH
propylene glycol	LOW	LOW
isopropanol	LOW (Half-life = 14 days)	LOW (Half-life = 3 days)
benzyl alcohol	LOW	LOW
sodium chloride	LOW	LOW

12.3 Bioaccumulative potential	
Ingredient	**Bioaccumulation**
pentobarbital sodium	LOW (LogKOW = 2.0043)
propylene glycol	LOW (BCF = 1)
isopropanol	LOW (LogKOW = 0.05)
benzyl alcohol	LOW (LogKOW = 1.1)
sodium chloride	LOW (LogKOW = 0.5392)

12.4 Mobility in soil	
Ingredient	**Mobility**
pentobarbital sodium	LOW (KOC = 114.4)
propylene glycol	HIGH (KOC = 1)
isopropanol	HIGH (KOC = 1.06)
benzyl alcohol	LOW (KOC = 15.66)
sodium chloride	LOW (KOC = 14.3)

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product/ packaging disposal	Containers may still present a chemical hazard/danger when empty. Return to supplier for reuse/recycling if possible. Otherwise: If container cannot be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill. Where possible retain label warnings and SDS and observe all notices pertaining to the product. **DO NOT** allow wash water from cleaning or process equipment to enter drains. In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first. **DO NOT** reuse containers. Bury empty containers in an authorised landfill.

SECTION 14: TRANSPORT INFORMATION

Labels required

Marine pollutant:	NO

Land transport (DOT)		
14.1 UN Number	2810	
14.2 UN Proper Shipping Name	Toxic, liquids, organic, n.o.s. (contains pentobarbital sodium)	
14.3 Transport hazard class(es)	Class	6.1
	Subrisk	Not Applicable
14.4 Packing group	III	
14.5 Environmental hazards	Not Applicable	
14.6 Special precautions for user	Hazard identification (Kemler)	6.1
	Special provisions	IB3, T7, TP1, TP28

Air transport (ICAO-IATA / DGR)		
14.1 UN Number	2810	
14.2 UN Proper Shipping Name	Toxic, liquids, organic, n.o.s. * (contains pentobarbital sodium)	
14.3 Transport hazard class(es)	ICAO/IATA Class	6.1
	ICAO / IATA Subrisk	Not Applicable
	ERG Code	6L
14.4 Packing group	III	
14.5 Environmental hazards	Not Applicable	
14.6 Special precautions for user	Special provisions	A3 A4 A137
	Cargo Only Packing Instructions	663
	Cargo Only Maximum Qty / Pack	220 L
	Passenger and Cargo Packing Instructions	655
	Passenger and Cargo Maximum Qty / Pack	60 L
	Passenger and Cargo Limited Quantity Packing Instructions	Y642
	Passenger and Cargo Limited Maximum Qty / Pack	2 L

Sea transport (IMDG-Code / GGVSee)		
14.1 UN Number	2810	
14.2 UN Proper Shipping Name	TOXIC, LIQUIDS, ORGANIC, n.o.s. (contains pentobarbital sodium)	
14.3 Transport hazard class(es)	IMDG Class	6.1
	IMDG Subrisk	Not Applicable

14.4 Packing group	III	
14.5 Environmental hazards	Not Applicable	
14.6 Special precautions for user	EMS Number	F-A, S-A
	Special provisions	223 274
	Limited Quantities	5 L

14.7 Transport in bulk according to Annex II of MARPOL and the IBC code
Not Applicable

14.8 Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
	Not available for any ingredient

14.9 Transport in bulk in accordance with ICG Code

Product name	Group
	Not available for any ingredient

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.

Pentobarbital sodium is found on the following regulatory lists
Chemical Footprint Project - Chemicals of High Concern List, US - California Proposition 65 - Reproductive Toxicity, US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 List, US EPCRA Section 313 Chemical List

propylene glycol is found on the following regulatory lists
US AIHA Workplace Environmental Exposure Levels (WEELs), US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs), US DOE Temporary Emergency Exposure Limits (TEELs), US EPA Integrated Risk Information System (IRIS), US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory, US Toxicology Excellence for Risk Assessment (TERA) Workplace Environmental Exposure Levels (WEEL), US TSCA Chemical Substance Inventory - Interim List of Active Substances

isopropanol is found on the following regulatory lists
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic, US - Massachusetts - Right To Know Listed Chemicals, US DOE Temporary Emergency Exposure Limits (TEELs), US EPCRA Section 313 Chemical List, US NIOSH Recommended Exposure Limits (RELs), US OSHA Permissible Exposure Limits (PELs) Table Z-1, US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory, US TSCA Chemical Substance Inventory - Interim List of Active Substances, US TSCA Section 4/12 (b) - Sunset Dates/Status

benzyl alcohol is found on the following regulatory lists
US - Massachusetts - Right To Know Listed Chemicals, US AIHA Workplace Environmental Exposure Levels (WEELs), US DOE Temporary Emergency Exposure Limits (TEELs), US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory, US Toxicology Excellence for Risk Assessment (TERA) Workplace Environmental Exposure Levels (WEEL), US TSCA Chemical Substance Inventory - Interim List of Active Substances

sodium chloride 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

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	Yes
Acute toxicity (any route of exposure)	Yes
Reproductive toxicity	Yes
Skin Corrosion or Irritation	Yes
Respiratory or Skin Sensitization	Yes
Serious eye damage or eye irritation	Yes
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
WARNING: This product can expose you to chemicals including **white mineral oil (petroleum)**, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

National Inventory Status	
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (pentobarbital sodium; propylene glycol; isopropanol; benzyl alcohol; sodium chloride)
China - IECSC	No (pentobarbital sodium)
Europe - EINEC / ELINCS /NLP	Yes
Japan - ENCS	No (pentobarbital sodium)
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	No (pentobarbital sodium)
USA - TSCA	No (pentobarbital sodium)
Taiwan - TCSI	Yes
Mexico - INSQ	No (pentobarbital sodium)
Vietnam - NCI	No (pentobarbital sodium)
Russia - FBEPH	No (pentobarbital sodium)

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: January 2023

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
DSL: 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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