



SAFETY DATA SHEET

(REACH regulation no. 1907/2006 and 453/2010)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product name: Euthasol (vet) 400 mg/ml solution for injection

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use: Euthanatic agent for veterinary use

1.3 Details of the supplier of the safety data sheet

Registered company name: Le Vet B.V.

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1.4 Emergency telephone number:**+31-(0)6-10203326**

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture**GHS – Classification**

Acute Aquatic Hazard Category 3

Acute Toxicity Category 3

Chronic Aquatic Hazard Category 3

Eye Irritation Category 2A

Reproductive Toxicity Category 2

Skin Corrosion/Irritation Category 3

Label Elements**Signal Word:** Danger

Hazard Statements: H301 – Toxic if swallowed
 H316 – Causes mild skin irritation
 H319 – Causes serious eye irritation
 H331 – Toxic if inhaled.
 H361 – Suspected of damaging fertility or the unborn child.
 H412 – Harmful to aquatic life with long lasting effects.

Precautionary Statements: P201 – Obtain special instructions before use.
 P202 – Do not handle until all safety precautions have been read and understood.
 P261 – Avoid breathing vapours.
 P264 – Wash hands thoroughly after handling.
 P270 – Do not eat, drink or smoke when using this product.
 P271 – Use only outdoors or in a well-ventilated area.
 P273 – Avoid release to the environment.
 P280 – Wear protective gloves e.g. PVC or vinyl and protective eyewear e.g. Safety glasses with eye side shields or chemical goggles.
 P281 – Use personal protective equipment as required.

Response Phrases: P301 + P310 – IF SWALLOWED: Immediately call a POISON CENTRE or doctor.
 P304 + P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Name: Euthasol (vet) 400 mg/ml solution for injection

Storage Phrases:

P308 + P313 – IF exposed or concerned: Get medical advice/attention.
 P311 – Call a POISON CENTER or doctor.
 P330 – Rinse mouth
 P332 + P313 – If skin irritation occurs: Get medical advice.
 P337 + P 313 – If eye irritation persists: Get medical advice.
 P403 + P 233 – Store in a well-ventilated place. Keep container tightly closed.
 P405 – Store locked up.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Substances**

No substances fulfill the criteria set forth in annex II section A of the REACH regulation (EC) no. 1907/2006

3.2 Mixtures**Composition:**

Ingredient	CAS-no.	Quantity
Pentobarbital sodium	57-33-0	400 mg/ml
Benzyl alcohol	100-51-6	20 mg/ml
Ethanol 96%	64-17-5	Classified
Propylene glycol	57-55-6	Classified
Patent blue (E131)	3536-49-0	0.01 mg/ml
Water for injections	7732-18-5	Ad 1.0 ml

SECTION 4: FIRST AID MEASURES**Description of First Aid Measures**

Eye Contact:	If eye contact occurs, rinse cautiously with water for at least 20 minutes. Transport to hospital or doctor without delay.
Skin Contact:	If skin contact occurs, immediately remove all contaminated clothing, including footwear. Wash affected area thoroughly with plenty of soap and water. If skin irritation or rash occurs, get medical advice.
Ingestion:	IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY. For advice contact a Poisons Information Centre or a doctor. Urgent hospital treatment is likely to be needed. Where medical attention is not immediately available, induce vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS.
Inhalation:	If fumes, aerosols or combustion products are inhaled remove from contaminated area. Apply artificial respiration if not breathing. Perform CPR if necessary. Transport to hospital or doctor.
Injection:	Urgently seek medical assistance. No antidote available. Treat symptomatically.

Name: Euthasol (vet) 400 mg/ml solution for injection**Most important Symptoms and Effects, Both Acute and Delayed****Symptoms and Effects****of Exposure:** For information on potential signs and symptoms of exposure, See section 2 – Hazards Identification and/or Section 11 – Toxicological Information.**Medical Conditions****Aggravated by Exposure:** None known**Indication of the Immediate Medical Attention and Special Treatment Needed****Notes to Physician:** Contains a barbiturate at a high concentration.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing Media: There is no restriction on the type of extinguisher which may be used. Use extinguishing media suitable for surrounding area.**Special hazards arising from the substance or mixture****Hazardous Combustion****Products:** If involved in a fire, may emit noxious fumes. Non-combustible – not considered to be a significant fire risk.**Fire/Explosion Hazards:** Not applicable**Advice for firefighters**

During all fire fighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Wear appropriate protective clothing. Exclude non-essential people from the area. Contain spill and sweep up / absorb with inert material such as soil, sand or absorbent granules and place in a sealable waste container. Ventilate area and wash spill site after pick-up complete. Dispose of waste safely.

Environmental Precautions

If contamination of drains and waterways occurs, advise Emergency Services.

Methods and Material for Containment and Cleaning up**Measures for Cleaning /****Collecting:** Contain the source of spill if it is safe to do so. Clean spill area thoroughly.**Additional Consideration****for Large Spills:** None

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Avoid all personal contact, including inhalation. Use personal protective equipment as required. Always read the label before use. See label for further information on handling and storage.

Conditions for Safe Storage, including any Incompatibilities

Storage Conditions: Euthasol (vet) contains pentobarbital sodium, which is a controlled substance under the International Narcotics acts and should be stored locked up.

Specific end use(s)

No data available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters**Occupational**

Exposure Limits: No data available.

Exposure controls

Engineering Controls: Handle in a well ventilated area. Do not drink, eat or smoke when handling this product. Wash hands after use. Care is required to avoid accidental self-injection.

Personal Protective

Equipment: Safety glasses with eye side shields or chemical goggles. Chemical protective gloves, e.g. PVC. Safety footwear or safety gumboots, e.g. rubber.

Hands: None

Eyes: None

Skin: None

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Clear solution

Odor: Odourless

Colour: Blue

Molecular formula: Mixture

Molecular weight: Mixture

Solvent Solubility: Not applicable

Water Solubility: Not applicable

pH: 10.0 – 11.5

Melting/Freezing Point: No data available

Boiling Point (°C): No data available

Partition Coefficient: No data available

Evaporation Rate: No data available

Vapor Pressure: No data available

Vapor Density: No data available

Viscosity: No data available

Flammability:

Autoignition Temperature (Solid): No data available

Flammability (Solids): No data available

Flash Point (Liquid): No data available

Upper Explosive Limits (Liquid): No data available

Lower Explosive Limits (Liquid): No data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under normal conditions of use.

Possibility of hazardous reactions

No data available

Conditions to avoid

None known.

Incompatible materials

As a precautionary measure, keep away from strong oxidizers.

Hazardous decomposition products

If involved in a fire, may emit noxious fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

Inhalation: Not normally a hazard due to the non-volatile nature of the product.

Ingestion: Toxic effects may result from ingestion of this product. Animal experiments indicate that ingestion of less than 40g of pentobarbital sodium may be fatal or produce serious damage to the health of the individual.

Pentobarbital sodium: (oral) LD₅₀: 60 mg/kg (guinea pig), (oral) TDLo: 6.43mg/kg (man).

Skin: Classified as skin irritant. Very alkaline.

Eye: Classified as skin irritant. Very alkaline.

Injection: Injection of barbiturates produces CNS depression ranging from sleep to profound coma to death.
Pentobarbital sodium: (intraperitoneal) LD₅₀: 36 mg/kg (rat).

Chronic effects: Continued misuse of very small amounts can lead to barbiturate dependence.

Reproductive

Toxicity: Neonates born to women who receive barbiturates throughout the last trimester of pregnancy may show withdrawal symptoms from 1-14 days after birth. Pentobarbital is excreted into breast milk.

Mutagenicity: Not known to be mutagenic.

Carcinogenicity: The use of barbiturates during pregnancy has been linked to brain tumours in children.

SECTION 12: ECOLOGICAL INFORMATION

Environmental Overview: Pentobarbital sodium may cause long-term adverse effects in the aquatic environment.

Ingredient	Persistence Water/Soil	Persistence Air	Bioaccumulation	Mobility
Pentobarbital sodium	High	No data available	Low	Medium
Ethanol	Low	Medium	Low	High

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods: Dispose of waste in accordance with all applicable laws and regulations. Member State specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater.

SECTION 14: TRANSPORT INFORMATION

The following refers to all modes of transportation, unless specified below.

Not regulated as a dangerous good for transport under USDOT, EUADR, IATA, or IMDG regulations. Export should be accompanied by proper import and export certificates.

SECTION 15: REGULATORY INFORMATION

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

Particular provisions: Veterinary medicinal product, under the scope of 2001/82/EC as amended
Chemical safety assessment: No data available

SECTION 16: OTHER INFORMATION

Data Sources: The data contained in this SDS may have been gathered from confidential internal sources, raw material suppliers, or from the published literature.