



PRODUCT SAFETY DATA SHEET (MSDS)

1. IDENTIFICATION OF SUBSTANCE/ PREPARATION AND OF COMPANY UNDERTAKING

| | | |
|---------------|--|--|
| Product name: | Dryseal/Interseal | UDDER SEAL |
| Univet Code: | F509 | Distributed by: Peak Marketing 100 SE Magellan Dr |
| Supplier: | Univet Ltd Tullyvin, Cootehill Co. Cavan Ireland Telephone: +00353 (0)495553203 Email: sales@univet.ie | Blue Springs, MO 64014 800-821-5570 |

2. HAZARDS IDENTIFICATION

Appearance: A white to off white Intramammary suspension

Classification of the Substance or Mixture

GHS - Classification

Acute Oral Toxicity: Category 4

EU Classification:

EU Symbol: Harmful; (Xn)

EU Risk Phrases: R22 - Harmful if swallowed.

Label Elements

Signal Word: Warning

Hazard Statements: H302 - Harmful if swallowed

Precautionary Statements:

P264 - Wash hands thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P301+ P312 - IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell

P330 - Rinse mouth

P501 - Dispose of contents/container in accordance with all local and national regulations



Other Hazards

Short Term:

May cause skin irritation. Signs and symptoms might include skin rash, itching, redness or swelling.

Long Term:

May cause damage to liver and kidneys (based on components)

Australian Hazard Classification (NOHSC): Hazardous Substance. Non-Dangerous Goods.

Note: This document has been prepared in accordance with standards for workplace safety, which require the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warnings included may not apply in all cases. Your needs may vary depending upon the potential for exposure in your workplace.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Hazardous | | | | | |
|---------------------------|-------------------|------------------------------|--------------------------|---------------------------|----------|
| Ingredient | CAS Number | EU EINECS/ELINCS List | EU Classification | GHS Classification | % |
| Bismuth subnitrate | 1304-85-4 | 215-136-8 | Xn; R22 | Acute Tox. 4 (H302) | 65 |
| Liquid paraffin | 92062-35-6 | 295-550-3 | Not Listed | Not Listed | < 30 |
| Colloidal silicon dioxide | 7631-86-9 | 231-545-4 | Not Listed | Not Listed | 1 |

| Ingredient | CAS Number | EU EINECS/ELINCS List | EU Classification | GHS Classification | % |
|----------------------|-------------------|------------------------------|--------------------------|---------------------------|----------|
| Aluminium stearate/s | NOT ASSIGNED | Not Listed | Not Listed | Not Listed | * |

Additional Information: * Proprietary
Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety. In accordance with 29 CFR 1910.1200, the exact percentage composition of this mixture has been withheld as a trade secret.

For the full text of the R phrases and CLP/GHS abbreviations mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

Description of First Aid Measures

Eye Contact: Immediately flush eyes with water for at least 15 minutes. If irritation occurs or persists, get medical attention.

Skin Contact: Remove contaminated clothing and shoes. Wash skin with soap and water. This material may not be completely removed by conventional laundering. Consult professional laundry service. Do not home launder. If irritation occurs or persists, get medical attention
Inhalation:

Ingestion: Do not induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. Get medical attention immediately.

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: None

5. FIRE FIGHTING MEASURES

Extinguishing media: Carbon dioxide, dry powder, or foam

Special Hazards Arising from the Substance or Mixture

Hazardous Combustion Products: Carbon dioxide, carbon monoxide, and oxides of nitrogen

Fire / Explosion Hazards: Fine particles (such as dust and mists) may fuel fires/explosions.

Advice for Fire-Fighters

Evacuate area and fight fire from a safe distance. Wear approved positive pressure, self-contained breathing

apparatus and full protective turn out gear.

Additional Information: This product contains an oxidizer and may support combustion. Paraffin is combustible.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure.

Environmental Precautions

Place waste in an appropriately labelled, sealed container for disposal. Care should be taken to avoid environmental release.

Methods and Material for Containment and Cleaning Up

Measures for Cleaning / Collecting:

Contain the source of spill if it is safe to do so. Collect spill with absorbent material. Clean spill area thoroughly

Additional Consideration for Large Spills

Non-essential personnel should be evacuated from affected area. Report emergency situations immediately. Clean up operations should only be undertaken by trained personnel.

7. HANDLING AND STORAGE

Precautions for Safe Handling

When handling, use appropriate personal protective equipment (see Section 8). Use with adequate ventilation. Keep away from heat, sparks, and flame. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Releases to the environment should be avoided.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Store in a cool, dry, well-ventilated area. Protect from light. Keep away from heat, sparks, and flames. Keep container tightly closed when not in use

Storage Temperature: Store as directed by product packaging.

Incompatible Materials: Strong oxidizing agents and strong acids, organic materials, combustible materials

Specific end use(s): No data available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Refer to available public information for specific member state Occupational Exposure Limits

Colloidal silicon dioxide

| | |
|---|-----------------------|
| Australia TWA | 2 mg/m ³ |
| Austria OEL - MAKs | 4 mg/m ³ |
| | 0.3 mg/m ³ |
| Czech Republic OEL - TWA | 0.1 mg/m ³ |
| | 4.0 mg/m ³ |
| Estonia OEL - TWA | 2 mg/m ³ |
| Finland OEL - TWA | 5 mg/m ³ |
| Germany - TRGS 900 - TWAs | 4 mg/m ³ |
| Germany (DFG) - MAK | 4 mg/m ³ |
| Ireland OEL - TWAs | 6 mg/m ³ |
| | 2.4 mg/m ³ |
| Latvia OEL - TWA | 1 mg/m ³ |
| OSHA - Final PELs - Table Z-3 Mineral D: | 20 mppcf |
| | Listed |
| Slovakia OEL - TWA | 4.0 mg/m ³ |
| Switzerland OEL - TWAs | 4 mg/m ³ |
| | 0.3 mg/m ³ |

The exposure limit(s) listed for solid components are only relevant if dust or mist may be generated.

Exposure Controls

| | |
|---------------------------------------|--|
| Engineering Controls: | Engineering controls should be used as the primary means to control exposures. General room ventilation is adequate unless the process generates dust, mist or aerosols. |
| Personal Protective Equipment: | Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE). |
| Hands: | Chemical protective gloves |
| Eyes: | Wear safety glasses or goggles if eye contact is possible. |
| Skin: | Wear protective clothing when working with large quantities. |
| Respiratory protection: | Respiratory protection is recommended as a precaution to minimize exposure when handling this material in bulk. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---|--|--------------------------|--------------------|
| Physical State: | Smooth Oily Paste | Color: | White to off white |
| Odor: | Paraffin odor | Odor Threshold: | No data available. |
| Molecular Formula: | Mixture | Molecular Weight: | Mixture |
| Solvent Solubility: | No data available | | |
| Water Solubility: | No data available | | |
| Solubility: | Insoluble: Water (based on components) | | |
| pH: | No data available. | | |
| Melting/Freezing Point (°C): | 260 based on highest component melting point (Bismuth subnitrate) | | |
| Boiling Point (°C): | No data available. | | |
| Partition Coefficient: (Method, pH, Endpoint, Value) | No data available | | |
| Decomposition Temperature (°C): | No data available. | | |
| Evaporation Rate (Gram/s): | No data available | | |
| Vapor Pressure (kPa): | No data available | | |
| Vapor Density (g/ml): | No data available | | |
| Relative Density: | 4.93 (Bismuth subnitrate) | | |
| Viscosity: | No data available | | |
| Flammability: | | | |
| Autoignition Temperature (Solid) (°C): | No data available | | |
| Flammability (Solids): | No data available | | |
| Flash Point (Liquid) (°C): (Paraffin) | 179 based on lowest component boiling point | | |
| Upper Explosive Limits (Liquid) (% by Vol.): | No data available | | |
| Lower Explosive Limits (Liquid) (% by Vol.): | No data available | | |
| Polymerization: | Will not occur | | |
| Additional Information: | There are no data available for this mixture. The information given in this section is for major component(s). | | |

10. STABILITY AND REACTIVITY

| | |
|---|---|
| Reactivity: | No data available |
| Chemical Stability: | Stable |
| Possibility of Hazardous Reactions | |
| Oxidizing Properties: | Bismuth subnitrate is an oxidizer. |
| Conditions to Avoid: | Keep away from heat, spark, flames and all other sources of ignition. Avoid prolonged exposure to higher temperatures and/or direct sunlight. |
| Incompatible Materials: | Strong oxidizing agents and strong acids, organic materials, combustible materials |
| Hazardous Decomposition Products: | Toxic or corrosive oxides of carbon and nitrogen. |

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

General Information: Toxicological properties of the formulation have not been investigated. The information in this section describes the potential hazards of the individual ingredients and the formulation. Routes of exposure: skin contact

Acute Toxicity: (Species, Route, End Point, Dose)

Bismuth subnitrate

Mouse Oral Minimum Lethal Dose 1200 mg/kg

Ingestion Acute Toxicity Harmful if swallowed.
Skin Irritation / Sensitization May cause skin irritation.

Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ)

Bismuth subnitrate

3Day(s) Rabbit Subcutaneous 5 g/kg/day LOAEL Kidney
60-70Day(s) Rat Oral 5 g/kg/day LOAEL Liver, Kidney,

Subchronic Effects Single or multiple subcutaneous injections of bismuth subnitrate into female mice produced neurological signs including ataxia, tremors, and convulsions. Hydrocephalus and axonal swelling in the spinal cord were the major neuropathological lesions.

Carcinogen Status: None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA. See below

Colloidal silicon dioxide

IARC: Group 3 (Not Classifiable)

Product Level Toxicity Data

Acute Toxicity Estimate (ATE), dermal ca. 1851 mg/kg

12. ECOLOGICAL INFORMATION

Environmental Overview: The environmental characteristics of this material have not been fully evaluated. Releases to the environment should be avoided.

Toxicity: No data available
Persistence and Degradability: No data available
Bio-accumulative Potential: No data available
Mobility in Soil: No data available

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.

14. TRANSPORT INFORMATION

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

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations,

15. REGULATORY INFORMATION

| | | |
|------------------------|----|-------------------------------|
| Labelling Information: | | None |
| Safety phrases: | S2 | Keep out of reach of children |
| | S7 | Keep container tightly closed |

16. OTHER INFORMATION

For Animal treatment only.

Suppliers data sheets and various chemicals and pharmaceuticals databases were used to compile this sheet.

The information contained in this PSDS is believed to be accurate and represents the best information available at the time of preparation. However, Univet Ltd makes no warranty, express or implied, with respect to such information and assumes no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes and Univet Ltd will not be held liable for any damage resulting from the handling of or contact with the above product.