



## SAFETY DATA SHEET

According to  
HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

### Section 1. Identification of the material and the supplier

Product: **DuoGold; DuoXtra**  
 Pack size: Carton containing 1,000 syringes  
 Product Use: 4 week dry cow antibiotic, for use in lactating dairy cows at drying off for treatment of subclinical mastitis that may be present at drying off including those caused by Gram positive organisms *Staphylococcus aureus* (both penicillin sensitive and resistant), *Streptococcus uberis*, and other *Streptococcus* and *Staphylococcus* species; and prevention of mastitis in cattle caused by Gram positive organisms sensitive to ampicillin and/or cloxacillin, to provide protection against further infections during the dry period.

Restriction of Use: Refer to Section 15  
 New Zealand Supplier: **Agrihealth NZ Limited**  
 Address: Level 2, 89 Grafton Road, Auckland 1010

Telephone: +64 9 215 1199  
**Emergency No: 0800 764 766 (National Poisons Centre)**

Date of SDS Preparation: 03 October 2025

### Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

**EPA Approval No: Veterinary Medicines (Limited Pack Size, Finished Dose) Group Standard – HSR100757**

#### Pictograms



Signal Word: **DANGER**

GHS Category	Hazard Code	Hazard Statement
Respiratory sensitisation Cat. 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
Skin sensitisation Cat. 1	H317	May cause an allergic skin reaction
Hazardous to the aquatic environment chronic Cat. 4	H413	May cause long lasting harmful effects to aquatic life

Prevention Code	Prevention Statement
P261	Avoid breathing vapour
P272	Contaminated work clothing should not be allowed out of the workplace
P273	Avoid release to the environment
P280	Wear protective gloves and clothing as detailed in SDS Section 8
P284	Wear respiratory protection

Response Code	Response Statement
P302 + P352	IF ON SKIN: Wash with plenty of water
P304 + P340	IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician
P362+P364	Take off contaminated clothing and wash before reuse

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

### Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Concentration w/w%	CAS NUMBER
Amoxicillin trihydrate	6.74	7177-48-2
Cloxacillin benzathine	14.9	23736-58-5
Paraffin oil	75.4	8012-95-1

### Section 4. First Aid Measures

#### Routes of Exposure:

If in Eyes	Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.
If on Skin	Take off contaminated clothing and wash before reuse. Wash skin with plenty of soap and water. If skin irritation or rash occurs: get medical advice/attention.
If Swallowed	Wash out mouth thoroughly with water. Do not induce vomiting. Never give anything to the mouth of an unconscious person. Call the National Poisons Centre 0800 764 766 or a doctor/physician for advice.
If Inhaled	Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

#### Most important symptoms and effects, both acute and delayed symptoms:

<b>Ingestion:</b>	Not applicable
<b>Inhalation:</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled
<b>Skin:</b>	May cause an allergic skin reaction
<b>Eyes:</b>	Not applicable

Notes to doctor: Treat exposed patients symptomatically

**Section 5. Fire Fighting Measures**

<b>Hazard Type</b>	Non-Flammable
<b>Hazards from products</b>	May emit toxic fumes under fire conditions. They are: carbon monoxide, carbon dioxide, nitrogen oxides, and sulphur oxides
<b>Suitable Extinguishing media</b>	Water spray, dry powder or foam
<b>Precautions for firefighters and special protective clothing</b>	Do not attempt to take action without protective equipment. Self-contained breathing apparatus. Complete protective clothing.
<b>HAZCHEM CODE</b>	<b>2Z</b>

**Section 6. Accidental Release Measures**

Persons with a history of allergies, contact dermatitis, chronic rashes or respiratory problems should use special precautions to avoid skin contact or exposure to product. Wear suitable protective equipment and a self-contained breathing apparatus. Evacuate all unnecessary personnel. Ventilate spillage area. Avoid contact with skin.

Prevent further spillage, and prevent spilled material from flowing onto adjacent land or into Waterways.

Carefully sweep product and remove. Place material in a dry container and cover. Remove from the area. Flush spill area with water. Dispose of waste safely as per Section 13.

**Section 7. Handling and Storage****Precautions for Handling:**

- Read carefully and follow all instructions
- Avoid breathing vapour
- Wash hands thoroughly after handling
- Contaminated work clothing should not be allowed out of the workplace and must be washed before reuse
- Avoid release to the environment
- Wear protective clothing as detailed in SDS Section 8
- Ensure good ventilation of the work station
- Avoid contact with skin and eyes
- Do not eat, drink or smoke when using this product

**Precautions for Storage:**

- Store away from incompatible materials listed in Section 10
- Store in a cool, well-ventilated place
- Store <25°C
- Store in the original container in a dry place, away from direct heat or sunlight
- Keep container sealed when not in use
- Keep out of reach of children
- Store away from foodstuffs

**Section 8. Exposure Controls / Personal Protection****WORKPLACE EXPOSURE STANDARDS (provided for guidance only)**

<b>Substance</b>	<b>TWA ppm mg/m<sup>3</sup></b>	<b>STEL ppm mg/m<sup>3</sup></b>
Mineral Oil Mist	5mg/m <sup>3</sup> 8 hours	10mg/m <sup>3</sup> 15 minutes

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices Nov 2023 14TH EDITION.

### Engineering Controls

Provide local exhaust or general room ventilation. Ensure good ventilation of the work station.

### Personal Protection Equipment



<b>Eyes</b>	Wear safety glasses
<b>Hands</b>	Wear suitable protective gloves. Wash hands after use
<b>Skin</b>	Suitable clothing to prevent skin contact
<b>Respiratory</b>	In case of inadequate ventilation wear respiratory protection
<b>General</b>	Wash hands with soap and water before breaks and after work. Avoid release to the environment. Do not eat, drink or smoke when using this product

## Section 9. Physical and Chemical Properties

<b>Appearance</b>	Oily suspension
<b>Colour</b>	White to off-white
<b>Odour</b>	Not available
<b>Odour Threshold</b>	Not available
<b>pH (2.5% Concentration)</b>	Not available
<b>Boiling Point</b>	Not available
<b>Melting Point</b>	Not available
<b>Freezing Point</b>	Not available
<b>Flash Point</b>	Not available
<b>Flammability</b>	Not flammable
<b>Upper and lower flammability limits</b>	Not available
<b>Vapour Pressure</b>	Not available
<b>Vapour Density</b>	Not available
<b>Density</b>	Not available
<b>Water Solubility</b>	Not available
<b>Partition Coefficient:</b>	Not available
<b>Auto-ignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	Not available
<b>Kinematic Viscosity</b>	Not available
<b>Particle Characteristics</b>	Not available
<b>Temperature range of ignition in air</b>	Not available
<b>Maximum pressure of explosion, MPa</b>	Not available
<b>Minimal energy of ignition, mJ</b>	Not available

## Section 10. Stability and Reactivity

<b>Stability of Substance</b>	This product is stable under normal conditions of use
<b>Possibility of hazardous reactions</b>	No data available

<b>Conditions to Avoid</b>	High temperature, moisture, direct sunlight
<b>Incompatible Materials</b>	No data available
<b>Hazardous Decomposition Products</b>	Under normal conditions of storage and use, decomposition products should not be produced.

## Section 11. Toxicological Information

### Acute Effects:

<b>Swallowed</b>	Not applicable
<b>Dermal</b>	Not applicable
<b>Inhalation</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled
<b>Eye</b>	Not applicable
<b>Skin</b>	May cause an allergic skin reaction

### Chronic Effects:

<b>Carcinogenicity</b>	Not applicable
<b>Reproductive Toxicity</b>	Not applicable
<b>Germ Cell Mutagenicity</b>	Not applicable
<b>Aspiration</b>	Not applicable
<b>STOT/SE</b>	Not applicable
<b>STOT/RE</b>	Not applicable

### Acute toxicity:

Components	LD <sub>50</sub>	Species	Test results
Mineral oil mist	Oral	Rat	>24g/kg
Ampicillin trihydrate	Oral	Rat	10 g/kg

Skin corrosion/irritation:	Rabbit, Guinea pig – causes mild irritation
Eye damage/irritation:	Rabbit – causes moderate irritation
Skin sensitisation:	Cloxacillin benzathine: Mammal (species unspecified) - sensitising
Respiratory sensitisation:	Ampicillin trihydrate: Mammal (species unspecified) - sensitising

## Section 12. Ecotoxicological Information

May cause long lasting harmful effects to aquatic life.

Aquatic and terrestrial toxicity:	Not available
Persistence/degradability:	Not available
Bioaccumulative potential:	Mineral oil mist LogP <sub>ow</sub> >4
Mobility in soil:	Not available

Do not allow to enter waterways

## Section 13. Disposal Considerations

### Disposal Method:

Preferably dispose of product by use. Dispose of product and packaging at an approved landfill or equivalent facility or authorised recovery program.

**Precautions or methods to avoid:** Avoid contamination of any water supply with product or empty container.

**Section 14. Transport Information**

**This product is not classified as a Dangerous Good for transport in NZ ; NZS 5433:2020 and SNZ HB 5433:2021**

**Road, Rail, Sea and Air Transport**

<b>UN No</b>	N/A
<b>Class - Primary</b>	N/A
<b>Packing Group</b>	N/A
<b>Proper Shipping Name</b>	N/A
<b>Marine Pollutant</b>	No
<b>Special Provisions</b>	N/A

**Section 15. Regulatory Information**

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval No: **Veterinary Medicines (Limited Pack Size, Finished Dose) Group Standard – HSR100757**

<b>HSW (HS) Regulations 2017</b>	<b>Trigger Quantity</b>
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities (Schedule 26)	Not required
Signage Trigger Quantities (Schedule 3)	10,000 L
Emergency Response Plan (Schedule 5)	10,000 L
Secondary Containment (Schedule 5)	10,000 L
Restriction of Use	Only use for the intended purpose
<b>ACVM Act and Regulations</b>	
See <a href="http://www.foodsafety.govt.nz">www.foodsafety.govt.nz</a> for registration conditions	<b>A5092 / A6811</b>

**Section 16. Other Information****Glossary**

Cat	Category
EC <sub>50</sub>	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC <sub>50</sub>	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD <sub>50</sub>	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

**References:**

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2023 14<sup>th</sup> edition.

3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
5. HSW (Hazardous Substances) Regulations 2017

#### Disclaimer

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Please contact the New Zealand distributor, if further information is required.

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