



MATERIAL SAFETY DATA SHEET

1.0 PRODUCT IDENTIFICATION:

- 1.1 COMMERCIAL NAME: CoseIcure[®] and Selecure Iode Cattle Boluses
- 1.2 PRODUCT: Soluble Glass bolus
- 1.3 INTENDED USE: Soluble glass mineral boluses that provides supplementation of iodine, copper, cobalt and selenium in ruminating cattle for up to six months from one administration.
- 1.4 MANUFACTURER: Telsol Limited, 23/24 Colomendy Industrial Estate, Denbigh, Denbighshire, LL16 5TA
- 1.5 EMERGENCY INFORMATION: E-mail: cosecure.telsol@ukonline.co.uk
Contact: Dr Brian Algar
Tel. No.: 01745 814678

2.0 COMPOSITION / INFORMATION ON INGREDIENTS:

- 2.1 CHEMICAL NAME: Sodium Phosphate Glass

3.0 HAZARD IDENTIFICATION:

- 3.1 SUBSTANCES: Phosphate Glass which contains 1% w/w iodine, 13.4% w/w copper, 0.5% w/w cobalt and 0.15% w/w selenium, as sodium selenate.
- 3.2 HAZARD RATING: Non-hazardous
- 3.3 FURTHER INFORMATION: Selenium and copper toxicity can occur if ingested. Cobalt may cause sensitisation by skin contact (R43).

4.0 FIRST AID MEASURES:

- 4.1 AFTER INHALATION: Not applicable
- 4.2 AFTER SKIN CONTACT: If sensitisation occurs, rinse immediately with plenty of water and seek medical advice.
- 4.3 AFTER EYE CONTACT: Not applicable
- 4.4 AFTER SWALLOWING: If ingested seek medical advice.

5.0 FIRE-FIGHTING MEASURES:

5.1	PROTECTION AGAINST FIRE & EXPLOSION:	The product is non-flammable.
5.2	EXTINGUISHING MEDIA:	SUITABLE: Not applicable NOT TO BE USED: Not applicable
5.3	FLASH POINT:	Non-flammable
5.4	IGNITION TEMPERATURE:	Non flammable
5.5	EXPLOSION LIMITS:	Lower - Not Applicable; Upper - Not Applicable

6.0 ACCIDENTAL RELEASE MEASURES:

6.1	AFTER SPILLAGE / LEAKAGE:	Not applicable
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7.0 HANDLING AND STORAGE:

7.1	HANDLING:	Avoid contact with skin. Persons sensitive to cobalt should wear gloves when handling. Wash hands after handling boluses.
7.2	STORAGE:	Store in a dry place, unopened in the foil packaging. Once opened, the product should be stored in an airtight container.

8.0 EXPOSURE CONTROLS / PERSONAL PROTECTION:

8.1	RESPIRATORY PROTECTION:	None
8.2	HAND PROTECTION:	Gloves
8.3	EYE PROTECTION:	None

9.0 PHYSICAL AND CHEMICAL PROPERTIES:

9.1	FORM:	Solid sintered glass
9.2	COLOUR:	Blue
9.3	ODOUR:	Odourless
9.4	CHANGES IN PHYSICAL STATE:	Moisture attack on surface leads to white copper phosphate deposits
9.5	DENSITY:	2.65 g/cm ³
9.6	WEIGHT:	100 ± 5 gm
9.7	VAPOUR PRESSURE:	Not applicable
9.8	VISCOSITY:	Not applicable
9.9	SOLUBILITY:	Slowly in cold water. Rapid in boiling water and approximately 0.22 g/hr at 40°C. Soluble in acidic and basic solutions.
9.10	pH VALUE:	(at 10 g/l water, 20°C) approx. 6.7

10.0 STABILITY AND REACTIVITY:

- 10.1 THERMAL DECOMPOSITION: Not applicable
- 10.2 HAZARDOUS DECOMPOSITION: None
PRODUCTS
- 10.3 HAZARDOUS REACTIONS: None

11.0 TOXICOLOGICAL INFORMATION:

To our knowledge, according to current information available, the product if properly handled is not injurious to health.

12.0 ECOLOGICAL INFORMATION:

According to our experience the product if properly used does not interfere with the industrial reprocessing of sewage.

13.0 DISPOSAL CONSIDERATIONS:

Disposal is in accordance with Waste Disposal Authority regulations.

Note: The product is a non-hazardous material as the sodium selenate concentration is $\leq 3\%$.

The Sensitisation Risk phrase R43 has no associated hazard in the Hazardous Waste Directive and will not constitute a hazardous waste in isolation.

14.0 TRANSPORT INFORMATION:

To our knowledge no special conditions for shipment of this product are required.

15.0 REGULATORY INFORMATION:

For animal treatment only. Keep out of reach and sight of children.

16.0 OTHER INFORMATION:

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damage of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of damages.