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SECTION 3: Composition/information on ingredients

Ingredients:	Chemical Nature:	CAS No:
Copper Oxide	Cu O & Copper(II) Oxide	1317-39-1 & 1317-38-0

Excipients make up 100%

SECTION 4: First aid measures


General advice:	Poisoning due to ingredients in bolus is not relevant
On skin contact:	Wash with soap and water
On contact with eyes:	Not relevant
On ingestion:	Not relevant

SECTION 5: Firefighting measures

Suitable extinguishing media:	Water spray, dry extinguishing media, foam, carbon dioxide (CO ₂)
The following can be given off in a fire:	gases/vapours. The degree of risk is governed by the burning substance and the fire conditions
Special protective equipment:	in case of fire, wear a self contained breathing apparatus
Further information:	contaminated extinguished water must be disposed of in accordance with local regulations

SECTION 6: Accidental release measures

Personal precautions:	No special measures necessary
Environmental precautions:	Avoid release to the environment
Methods for cleaning up:	Not applicable

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SECTION 7: Handling and storage


Handling:	Handling boluses containing copper needles and wax is not considered to represent a health risk, but good personal hygiene is always advisable.
Protection against fire and explosion:	Keep away from heat, sparks and open flame
Storage:	Keep dry No other special measures necessary

SECTION 8: Exposure controls and personal protection

OEL	1 mg/m ³ (as Cu) 8 hour TWA 2 mg/m ³ (as Cu) 15 minute
Personal protective equipment:	Not applicable
General safety and hygiene measures:	After handling, wash hands with soap and water

SECTION 9: Physical and chemical properties

Form:	Wax bolus containing copper oxide needles
Colour:	Black
Odour:	odourless
Copper Oxide:	Cupric Oxide(CuO) & Copper(II)Oxide
Solubility in water:	Soluble in acids, not very soluble in water. Insoluble in organic solvents

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SECTION 10: Stability and reactivity

Conditions to avoid:	protect against moisture
Hazardous reactions:	Can react violently or explosively if heated with aluminium powder or magnesium powder. Reacts with incandescence if heated with sodium or potassium. Mixtures with phthalic anhydride can explode on heating. Causes rapid oxidation and possible ignition of hydrogen sulphide
Hazardous decomposition products:	none provided product is correctly processed

SECTION 11: Toxicological information

In the bolus form the ingredients are not toxic but should the bolus be crushed so that the ingredients could be ingested the following toxicological data would be relevant:-

Irritant/corrosive effects:	Irritant effect on skin: Evaluation- irritant Irritant effect on eyes: Evaluation- irritant
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Copper fumes or dust may give symptoms of metal fume fever, dry throat, headaches, muscle aches, cramp, sleepiness and diminished mental ability.


Ingestion of large amounts may be harmful and cause systemic damage. Opinions vary concerning the toxicity of copper compounds to humans

SECTION 12: Ecological information

Copper is toxic to aquatic life at concentrations as low as 90 micrograms per litre, may cause long-term adverse effects in the aquatic environment.
No data available for other ingredients to suggest any adverse effects.

SECTION 13: Disposal considerations

Product:	Must be disposed of in accordance with local regulations The UK Environment Protection (Duty of Care) Regulations (EP) and amendments should be noted (United Kingdom)
Contaminated packaging:	Uncontaminated packs can be re-used. Packs that cannot be cleaned should be disposed of by suitable incineration, in accordance with local regulations

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SECTION 14: Transport information

UN number: 3077
 Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
 SOLID, N.O.S._Copper
 DG class: 9
 Packing group: III
 Hazchem code: 2Z

SECTION 15: Regulatory information

Labelling according to national / international regulations

SECTION 16: Other information

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties.
 Recipients of our products must take responsibility for observing existing laws and regulations.