

PRODUCT NAME: **EXOWELD™ COPPER COATED STEEL EARTH ROD** PAGE: 1 / 7  
SDS DOCUMENT NUMBER: EXO-QM-QD-SDS-ER VERSION: 01.00 (2017/03/15)

## 1 - IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

### PRODUCT IDENTIFIER

Product name: Exoweld Copper Coated Steel Earth Rod

### DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Manufacturer: Exoweld (Pty) Ltd  
416 Heidelberg Road, Tulisa Park, Johannesburg 2197  
Republic of South Africa  
Tel: +27 (0) 11 907 1355

Emergency telephone: Bruno Tranchina | Exoweld Director  
083 263 6004 South Africa  
+27 (0) 83 263 6004 International

## 2 - HAZARDS IDENTIFICATION

### CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

The preparation is not classified as dangerous according to Directive 1999/45/45/EC and its amendments

Classification: Copper Coated Steel Ground Rod

Hazard description: Not applicable

Classification system: HMIS

Exposure to reaction by-products: [See section 8](#)

## 3 - COMPOSITION / INFORMATION ON INGREDIENTS

### MIXTURES

% by weight	CAS No.	Chemical name
< 20%	7440-50-8	Copper
< 90%	Mixture	Steel

EINECS Number: 231-159-6

References: The full text for all hazard statements is displayed in [section 16](#).



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#### 4 - FIRST AID MEASURES

##### DESCRIPTION OF FIRST AID MEASURES

General information: No special measures required

After inhalation: Seek medical attention in case of complaints

After skin contact: Generally the product does not irritate the skin

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, seek medical attention

After swallowing: Seek medical attention

Notes to physician: No additional remarks

Notes to first-aiders: No additional remarks

#### 5 - FIREFIGHTING MEASURES

Suitable extinguishing agents: Product is not flammable. Use firefighting measures that suit the surrounding areas in case of fire.

Protective equipment: No special measures required

#### 6 - ACCIDENTAL RELEASE MEASURES

##### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Person related safety precautions: Not required

Measured for environmental protection: Do not allow material to be released into the environment without proper governmental permits

Measures for cleaning / collecting: Pick up mechanically

See [section 7](#) for information on safe handling, [section 8](#) for personal protective equipment and [section 13](#) for waste disposal.



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## 7 - HANDLING AND STORAGE

- Handling: Keep in original packaging until use. Store in a cool dry place. No special precautions
- Storage: Store in a cool dry area protected from the elements to reduce discolouration before use.
- Packaging: Packed into sub-bundles of five earth rods and then into bundles of 20 X 5 sub-bundles. Bundles are then covered in plastic.
- Protection of the threaded portion of the earth rod shall be afforded protection by wrapping the threaded ends in a sub-bundle using copious amounts of corrosion inhibited paste and then covered with pallet wrap, then with a cardboard tube.
- Packaged bundles are put on a pallet where an additional layer of protective plastic sheeting with a minimum gauge thickness of 500 gauge (0.125mm) must be secured over the top of the pallet and around all four sides of the initially packed earth rods.

## 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: No further data. See [section 7](#).

Hygiene measures: No further data. See [section 7](#).

### EXPOSURE CONTROLS

Respiratory equipment: None required

Skin and body: None required

Hands: None required

Eyes: None required



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## 9 - PHYSICAL AND CHEMICAL PROPERTIES

### INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

<u>Form:</u>	Rod
<u>Colour</u>	Copper coloured
<u>Odour</u>	Odourless
<u>Boiling point:</u>	2595°C (4703°F)
<u>Ignition temperature:</u>	Not determined
<u>Decomposition temperature:</u>	Not determined
<u>Flash point:</u>	Not applicable
<u>Melting point:</u>	1083°C (1981°F)
<u>Sublimation temperature:</u>	Not determined
<u>Danger of explosion:</u>	Product does not present an explosion hazard
<u>Vapour pressure:</u>	Not determined
<u>Density (at 20°C):</u>	8.94 g/cm <sup>3</sup>
<u>Solubility in water:</u>	Insoluble



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## 10 - STABILITY AND REACTIVITY

### CHEMICAL STABILITY

Stability: Stable

### CONDITIONS TO AVOID

Conditions / materials to avoid: Decomposition will not occur if used and stored according to specifications

### INCOMPATIBLE MATERIALS

Incompatible materials: Oxidizing agents and acids

### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous decomposition: Metal oxide fume

Hazardous reactions: No dangerous reactions known

## 11 - TOXICOLOGICAL INFORMATION

### INFORMATION ON TOXICOLOGICAL EFFECTS

Skin irritation: None known

Eye irritation: None known (product does not emit fumes or dust)

Sensitization: No effects known

Acute toxicity: No additional information

Specific effects (Chronic toxicity): Copper compounds may be irritating to the skin, eyes and respiratory tract. They may cause metal fume fever, haemolysis of the red blood cells, injury to the liver, lungs, kidneys and pancreas. Ingestion may also cause vomiting, gastric pain, dizziness, anaemia, cramps, convulsions, shock, coma and death. Copper solutions may cause sensitization reactions

To the best of our knowledge, the acute and chronic toxicity of this substance are not fully known.

EPA-D: not classifiable as to human carcinogenicity: inadequate human and animal evidence of carcinogenicity or no data is available.

The registry of Toxic Effect of Chemical Substances (RTECS) contains tumorigenic and / or carcinogenic and / or neoplastic data for components in this product.



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## 12 - ECOLOGICAL INFORMATION

Do not allow the material to be released into the environment without proper governmental permits.

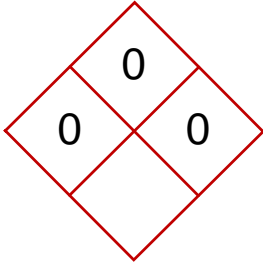
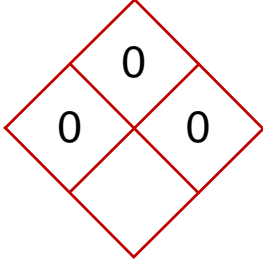
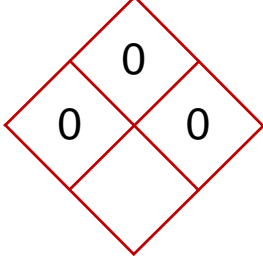
## 13 - DISPOSAL CONSIDERATIONS

Methods of disposal: Consult state, local or national regulations to ensure proper disposal.

Waste classification: Not applicable

## 14 - TRANSPORT INFORMATION

### LOCAL / INTERNATIONAL TRANSPORT REGULATIONS

Regulatory information	UN Number	Proper shipping name	Class	Packing group	Label	Additional information
SASS 0228 - Class Land - Road I Railway	Not regulated	---	---	---		---
IMDG – Class Sea	Not regulated	---	---	---		---
IATA – DGR Class Air	Not regulated	---	---	---		---

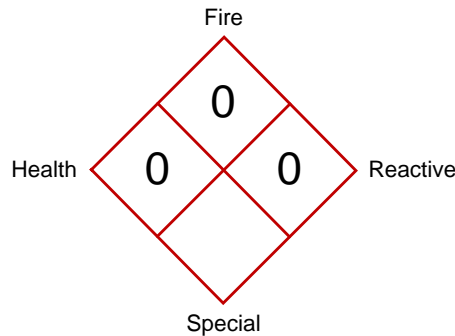


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**15 - REGULATORY INFORMATION**

**HAZARD SYMBOL(S)**

NFPA	Hazard rating
0	Insignificant
1	Slight
2	Moderate
3	High
4	Extreme



**INDICATION OF DANGER**

Product related hazard information: Observe the general safety regulations when handling metals

Information about limitation of use: For use only by technically qualified individuals. This product contains copper and is subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to Know Act of 1986 and 40CFR372.

**16 - OTHER INFORMATION**

Other special considerations: None identified.  
Department issuing SDS: Health, Safety and Environmental Department

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