# Material Safety Data Sheet According to 91/155 EEC

Printing date 16.11.2005 Reviewed on 19.05.2004

## 1 Identification of the substance/preparation and of the company/undertaking

· Product details

· Trade name: Bronze Powder - Spherical, Irregular

• **SDS** number: 8038

· Application of the substance / the preparation Pigment



· Manufacturer/Supplier:

Ronald Britton & Company

Springfield House

Lower Eccleshill Road

Darwen

Lancashire BB3 0RP

Tel: 00 44 1254 760099

· Further information obtainable from: Product safety department

## 2 Composition/information on ingredients

- · Chemical characterization
- · **Description:** Mixture of substances listed below with nonhazardous additions.

· Dangerous components:							
CAS: 7440-50-8 EINECS: 231-159-6	copper		60-90%				
CAS: 7440-31-5 EINECS: 231-141-8	tin		10-40%				
CAS: 7440-66-6 EINECS: 231-175-3		F, K N; R 15-17-50/53	≤1%				

<sup>·</sup> Additional information: For the wording of the listed risk phrases refer to section 16.

### 3 Hazards identification

- · Hazard description: Not applicable.
- Information concerning particular hazards for human and environment: Not applicable.
- · Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature

## 4 First-aid measures

- · General information: No special measures required.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

*Immediately wash with water and soap and rinse thoroughly.* 

Generally the product does not irritate the skin.

- · After eve contact: Rinse opened eve for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.

## 5 Fire-fighting measures

· Suitable extinguishing agents:

Dry sand

ABC powder

Special powder for metal fires. Do not use water.

· For safety reasons unsuitable extinguishing agents: Water

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· Protective equipment: No special measures required.

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## 6 Accidental release measures

#### Person-related safety precautions:

Avoid formation of dust.

Keep away from ignition sources.

Wear protective clothing.

- · Measures for environmental protection: Do not allow to enter sewers/surface or ground water.
- · Measures for cleaning/collecting:

Pick up mechanically.

See Section 7 for safe handling.

See Section 8 for information on personal protection equipment.

### 7 Handling and storage

- · Handling:
- · Information for safe handling:

Store in cool, dry place in tightly closed receptacles.

Prevent formation of dust.

- · Information about fire and explosion protection: No special measures required.
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility:

Store away from flammable substances.

Do not store together with oxidizing and acidic materials.

· Further information about storage conditions: Keep container tightly sealed.

### 8 Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · Ingredients with limit values that require monitoring at the workplace:

#### 7440-50-8 copper

OES Short-term value: 2\*\* mg/m³
Long-term value: 0.2\* 1\*\* mg/m³
\*fume \*\*dusts and mists

#### 7440-31-5 tin

OES Short-term value: 4 mg/m³ Long-term value: 2 mg/m³

- · Personal protective equipment:
- · General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

- Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.
- · Protection of hands:

Not required.

Preventive skin protection by use of skin-protecting agents is recommended.

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Not required.

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· Body protection: Protective work clothing

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## 9 Physical and chemical properties

•	General	In	form	ation

Form: Powder

Colour: Bronze coloured Odour: Odourless

· Change in condition

Melting point/Melting range: 750-1083°C Boiling point/Boiling range: Undetermined.

· Flash point: Not applicable.

· Flammability (solid, gaseous): Product is not flammable.

· Self-igniting: Product is not selfigniting.

• **Danger of explosion:** Product does not present an explosion hazard.

• **Density at 20°C:** 8.27-8.89 g/cm<sup>3</sup>

· Solubility in / Miscibility with

water: Insoluble.

· Solvent content:

· Solids content: 100 %

## 10 Stability and reactivity

- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Dangerous reactions

Reacts with acids, alkalis and oxidizing agents.

Risk of dust explosion.

· Dangerous decomposition products: No dangerous decomposition products known.

## 11 Toxicological information

- · Acute toxicity:
- Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

### 12 Ecological information

· General notes: Generally not hazardous for water

## 13 Disposal considerations

- · Product:
- · Recommendation

Hand over to hazardous waste disposers.

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Contact manufacturer for recycling information.

Must not be disposed of with general waste

· Waste disposal key: 12 01 04

· Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

## 14 Transport information

- · Maritime transport IMDG:
- · Marine pollutant: No

## 15 Regulatory information

· Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

- · National regulations:
- · Technical instructions (air):

Class	Share in %			
III	50-100			

· Waterhazard class: Generally not hazardous for water.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Relevant R-phrases
- 15 Contact with water liberates extremely flammable gases.
- 17 Spontaneously flammable in air.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- · Department issuing MSDS: Environment protection department
- · Contact: Mr. John Maynard

GB