

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION****1.1 Product identifier**

Trade name: Bright Copper Solution

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Relevant identified uses: Electrolyte for copper plating.

Uses advised against: All other uses.

**1.3 Details of the supplier of the Safety Data Sheet**Goldgenie  
Wenta Business Centre  
1 Electric Avenue  
London, EN3 7XU

Phone: +44 208 804 6200

Website: www.goldgenie.com

**SECTION 2: HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]:**

Skin irritation, category 2

Eye irritation, category 2

Specific target organ toxicity - single exposure, category 3

**2.2 Label elements****Labelling according to Regulation (EC) No. 1272/2008 [CLP]:**

Signal word: Warning

**Hazard Statements:**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation

**Precautionary statements:**

P280 – Wear eye protection.

P302 + P352 – IF ON SKIN: Wash with plenty of water/soap.

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332 + P313 – If skin irritation occurs: Get medical advice/attention.

P337 + P313 – If eye irritation persists: Get medical advice/ attention.

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## 2.3 Other hazards

None known.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture meeting the criteria for classification in accordance with Regulation (EC) No. 1272/2008.

### Hazardous ingredients:

Name	CAS No.	GHS classification	% (w/v)
Dicopper pyrophosphate hydrate	19153-98-1	Skin Irrit. 2, H315 Eye irrit. 2, H319 STOT SE 3, H335	1 – 5
Potassium pyrophosphate	7320-34-5	Skin Irrit. 2, H315 Eye irrit. 2, H319 STOT SE 3, H335	10 – 30

The exact percentages (concentration) of composition have been withheld as a trade secret.

### Additional information:

For the full text of the H-statements mentioned in this section, see Section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

**Following inhalation:** Move to fresh air. If any signs or symptoms occur, seek medical advice.

**Following skin contact:** Wash immediately with plenty of soap and water. If skin irritation or rash occurs: Get medical advice.

**Following eye contact:** Immediately flush eyes with copious amounts of water for at least 15 minutes. Check for contact lenses and remove if present and easy to do so. Keep on flushing the eyes. If eye irritation occurs, seek medical advice.

**Following ingestion:** After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

**Protection of first aider:** Not applicable.

**4.2 Most important symptoms and effects**

**Symptoms:** The known symptoms and effects are described in section 2.2 of this SDS.

**Risks:** Untreated symptoms may result in additional health risks.

**4.3 Indication of any immediate medical and special treatment**

The physician may contact the national poison centre for advice.

**SECTION 5: FIREFIGHTING MEASURES****5.1 Extinguishing media**

**Suitable extinguishing media:** Dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam.

**Unsuitable extinguishing media:** No data available.

**5.2 Specific hazards arising from mixture**

In combustion emits toxic fumes.

**5.3 Advice for fire fighters****Special protective equipment for firefighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear.

**5.4 Other information**

No other information available.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**6.1 NOTES FOR NON-EMERGENCY PERSONNEL:** Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

**6.2 Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

**Notes for those trained to participate in an emergency:**

**6.3 ACCIDENTAL RELEASE MEASURES:** Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

Recommendations for personal protective equipment selection are noted above. Dispose in accordance with section 13 of this document.

**SECTION 7: HANDLING AND STORAGE****7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.

**7.2 Conditions for safe storage, including any incompatibilities**

**Storage Conditions:** Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**Incompatible materials:** See section 10.

**7.3 Specific end uses**

See section 1.2.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters**

Control parameters according to the local regulations should be taken into account.

**8.2 Exposure controls****Engineering controls:**

Ensure there is sufficient ventilation of the area.

**Personal Protective equipment:**

Hand: Wear protective gloves

Body protection: Impervious clothing.

Eye: Depending on the use of this product splash or safety glasses may be worn in an industrial setting.

Respiratory: In the case of respirable dust and/or fumes, use self-contained breathing apparatus.

Other measures: No statement available.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Liquid  
**Color:** Blue



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<b>Odor:</b>	Odorless
<b>Odor threshold:</b>	No data available
<b>pH:</b>	9.6 – 9.8
<b>Melting point/range:</b>	No data available
<b>Boiling point/range:</b>	No data available
<b>Flash point:</b>	No data available
<b>Evaporation rate:</b>	No data available
<b>Flammability:</b>	No data available
<b>Upper/lower flammability or explosive limits:</b>	No data available
<b>Vapor pressure:</b>	No data available
<b>Vapor density:</b>	No data available
<b>Relative Density:</b>	1.32
<b>Solubility(ies):</b>	No data available
<b>Partition coefficient (n-octanol/water):</b>	No data available
<b>Auto-ignition temperature:</b>	No data available
<b>Decomposition temperature:</b>	No data available
<b>Viscosity:</b>	No data available
<b>Explosive properties:</b>	No data available
<b>Oxidizing properties:</b>	No data available

### SECTION 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity

None under normal use conditions.

#### 10.2 Chemical stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

No data available.

#### 10.4 Conditions to avoid

No data available.

#### 10.5 Incompatible materials

Strong oxidizing agents.

#### 10.6 Hazardous decomposition products

In case of fire: see section 5.2

No other data available.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### General information:

This product does not contain known human carcinogens.

**11.1 Information on toxicological effects****Acute Toxicity:**

No statements available for any of the ingredients.

**Skin corrosion/irritation:**

Causes skin irritation.

**Serious eye damage/irritation:**

Causes serious eye irritation.

**Respiratory or skin sensitization:**

No statements available for any of the ingredients.

**Germ cell mutagenicity:**

No statements available for any of the ingredients.

**Carcinogenicity:**

This product does not contain known human carcinogens.

**Reproductive toxicity:**

No statements available for any of the ingredients.

**STOT – single exposure:**

May cause respiratory irritation.

**STOT – repeated exposure:**

No statements available for any of the ingredients.

**Aspiration hazard:**

No statements available for any of the ingredients.

**Likely route(s) of exposure:**

Skin exposure and eye exposure are the most likely to occur. Accidental ingestion is also possible.

**SECTION 12: ECOLOGICAL INFORMATION****General information:**

No statements available for any of the ingredients.

**12.1 Toxicity**

No statements available for any of the ingredients.

**12.2 Persistence and degradability****Physical- and photochemical elimination:**

No statements available for any of the ingredients.



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### **Biodegradation:**

No statements available for any of the ingredients.

### **12.3 Bioaccumulative potential**

No statements available for any of the ingredients.

### **12.4 Mobility in soil**

### **Known/Predicted environmental distribution:**

No statements available for any of the ingredients.

### **Surface tension:**

No statements available for any of the ingredients.

### **Adsorption/Desorption:**

No statements available for any of the ingredients.

### **12.5 Results of PBT and vPvB assessment**

This product does not contain components which are considered to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### **12.6 Other adverse effects**

No statements available for any of the ingredients.

## SECTION 13: DISPOSAL CONSIDERATIONS

### **13.1 Waste treatment methods**

#### **Product:**

Can be disposed of with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations. Smaller quantities can be disposed of with household waste.

#### **Waste material:**

Disposal must be made according to official regulations.

## SECTION 14: TRANSPORT INFORMATION

### **14.1 UN number**

ADR/RID/IDMG/IATA: Non-regulated

### **14.2 UN proper shipping name**

ADR/RID/IDMG/IATA: Non-regulated



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### 14.3 Transport hazard class(es)

ADR/RID/IDMG/IATA: Non-regulated

### 14.4 Packing group

ADR/RID/IDMG/IATA: Non-regulated

### 14.5 Environmental hazards

ADR/RID/IDMG/IATA: Non-regulated

### 14.6 Special precautions for user

No statements available.

### 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable, as product is not shipped in bulk.

## SECTION 15: REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No restrictions applicable, according to appendix XVII of REACH.

### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## SECTION 16: OTHER INFORMATION

### Complete text of Globally Harmonized System of Classification and Labelling of Chemicals hazard statements as listed in section 3:

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H335 - May cause respiratory irritation

### Further information

The information presented in this Safety Data Sheet (SDS) is accurate to the best of our knowledge at the date of publication. The information given within the SDS is meant solely as a guide for safe handling, use, transportation, processing, storage, release and disposal. In no means can the information within the SDS be considered as a warranty or specification for quality.