



**Bare  
Conductive®**

# Electric Paint®

## Safety Data Sheet

ACCORDING TO EC-REGULATIONS  
1907/2006 (REACH) & 1272/2008 (CLP)

### 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

#### 1.1 Product identifier

|                        |  |
|------------------------|--|
| GHS Product Identifier | <b>Bare Conductive Paint</b>                                     |
| Chemical Name          | <i>Water-based dispersion of carbon pigment in Natural resin</i> |
| Other names            |  |
| CAS No.                | Mixture — Not applicable   |
| EINECS No.             | Mixture — Not applicable   |

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

|                      |                               |
|----------------------|-------------------------------|
| Identified use(s)    | Electrically conductive paint |
| Uses advised against | None                          |

#### 1.3 Details of the supplier of the safety data sheet

|                           |   |
|---------------------------|---|
| Company Identification    | Bare Conductive Limited<br>First Floor<br>98 Commercial Street<br>London E1 6LZ |
| Telephone                 | +44 (0)20 3432 5385   |
| E-Mail (competent person) | <b>info@bareconductive.com</b>  |

#### 1.4 Emergency telephone number

|                     |  |
|---------------------|--|
| Emergency Phone No. | <b>+44 (0)20 3432 5385 / Technical manager</b> |
|---------------------|--|

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

##### 2.1.1 Regulation (EC) No. 1272/2008 (CLP)

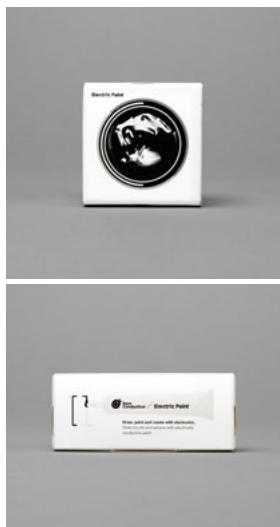
|                                    |  |
|------------------------------------|--|
| <b>2.1.2 Directives 1999/45/EC</b> | Preparation is not classified as hazardous according to Directives 1999/45/EC. |
|------------------------------------|--|

#### 2.2 Label elements

|                             |  |
|-----------------------------|--|
| <b>2.2.1 Label elements</b> | According to Regulation (EC) No. 1272/2008 (CLP) |
| <b>2.2.2 Label elements</b> | According to Directive 1999/45/EC                |
| <b>Hazard Symbol</b>        | Not applicable                                   |
| <b>Risk Phrases</b>         | Not applicable                                   |
| <b>Safety Phrases</b>       | Not applicable                                   |

#### 2.3 Other hazards

|                                   |  |
|-----------------------------------|--|
| <b>2.4 Additional Information</b> |  |
|-----------------------------------|--|



### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.1 Substances

EC Classification No. 1272/2008

| Ingredients                       | %W/W | CAS No.      | EC No.       | Hazard statement(s)   |
|-----------------------------------|------|--------------|--------------|---|
| Water                             |      | 7732-18-5    | 231-791-2    | Not classified.   |
| Natural Resin                     |      | Trade secret | Trade secret | Not classified.   |
| Conductive carbon                 |      | Trade secret | Trade secret | Not classified.   |
| Humectant                         |      | Trade secret | Trade secret | Not classified.   |
| Processing aids and preservatives |      | Trade secret | Trade secret | Individual levels below 1% do not give rise to classification |

EC Classification No. 67/548/EEC

| Hazard statement(s) | %W/W | CAS No. | EC No. | Classification and Risk Phrases |
|---------------------|------|---------|--------|---------------------------------|
| None                |      |         |        |                                 |

#### 3.2 Substances

For full text of R/H/P phrases see section 16.



### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

|   |   |
|---|---|
| <b>Inhalation</b>   | Remove patient from exposure. Give oxygen if breathing difficult. Apply artificial respiration if necessary. Obtain medical attention if ill effects occur. |
| <b>Skin Contact</b>   | Wash affected skin with plenty of soap and water. Remove contaminated clothing and wash before reuse. Obtain medical attention if ill effects occur.        |
| <b>Eye Contact</b>  | If substance has got into the eyes, immediately wash out with plenty of water for at least 15 minutes. Obtain medical attention.                            |
| <b>Ingestion</b>  | If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. Obtain medical attention.                                   |
| <b>4.2 Most important symptoms and effects, both acute and delayed</b>                | Unlikely to cause harmful effects under normal conditions of handling and use.  |
| <b>4.3 Indication of the immediate medical attention and special treatment needed</b> | None  |

### 5. FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing media

|                                |                                      |
|--------------------------------|--------------------------------------|
| Suitable Extinguishing Media   | As appropriate for surrounding fire. |
| Unsuitable Extinguishing Media | As appropriate for surrounding fire. |

#### 5.2 Special hazards arising from the substance or mixture

Combustion or thermal decomposition will evolve toxic and irritant vapours. (Nitrogen oxides)

#### 5.3 Advice for fire-fighters

Self-contained breathing apparatus to be worn if involved in fire. Water spray should be used to cool containers.

### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Put on protective clothing.

#### 6.2 Environmental precautions

Do not allow to enter drains, sewers or watercourses. If substance has entered a watercourse or sewer advise police and water authority.

#### 6.3 Methods and material for containment and cleaning up

Absorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a lidded container for disposal. Clean area afterward with water and detergent

#### 6.4 Reference to other sections

See Section: 8 (Exposure controls / PPE) & 13 (Disposal)

## 7. HANDLING AND STORAGE

|   |  |
|---|--|
| <b>7.1 Precautions for safe handling</b>                                | Avoid contact with skin and eyes. Natural ventilation is adequate.         |
| <b>7.2 Conditions for safe storage, including any incompatibilities</b> | Keep in the original container in a cool, dry place.                       |
| Storage Temperature   | Maximum temperature 25 degC. Product may be refrigerated but do not freeze |
| Storage Life  | Six months at 25 degC. After opening, use within two months                |
| Incompatible materials  | Strong oxidising agents.   |
| Other information   | Product may settle on storage Stir thoroughly before use                   |

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

|   |  |
|---|--|
| <b>8.1 Control parameters</b>                 |  |
| <b>8.1.1 Occupational Exposure Limits</b>     | <b>WEL: Workplace Exposure Limit (UK HSE EH40)</b>   |
| LTEL (8 hr TWA mg/m <sup>3</sup> )            | Not listed   |
| LTEL (8 hr TWA mg/m <sup>3</sup> )            | Not listed   |
| <b>8.2 Exposure controls</b>                  |  |
| <b>8.2.1 Appropriate engineering controls</b> | Ventilation recommended. Follow the principles of good occupational hygiene to control personal exposures.   |
| <b>8.2.2 Personal protection equipment</b>    |  |
| Eye/face protection                           | Safety spectacles recommended.   |
| Skin protection (Hand protection/ Other).     | Plastic or rubber gloves recommended   |
| Respiratory protection                        | No personal respiratory protective equipment normally required.  |
| Other   | General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and after work. Wash contaminated clothing before reuse. |
| <b>8.2.3 Environmental Exposure Controls</b>  | Do not allow to enter drains, sewers or watercourses.  |



## 9. PHYSICAL AND CHEMICAL PROPERTIES.

|   |                                       |
|---|---------------------------------------|
| <b>9.1 Information on basic physical and chemical properties (Solution)</b> |                                       |
| <b>Appearance</b>   | Liquid                                |
| <b>Colour</b>   | Black                                 |
| <b>Odour</b>  | Slight                                |
| <b>Odour Threshold (ppm)</b>  | Not applicable                        |
| <b>pH (Value)</b>   | 5-7                                   |
| <b>Melting Point (°C) / Freezing Point (°C)</b>                             | Approx -10 degC                       |
| <b>Boiling point/boiling range (°C)</b>                                     | Approx 102 – 105 degC                 |
| <b>Flash Point (°C) [Closed cup]</b>  | Not applicable. (Not combustible)     |
| <b>Evaporation rate (Water = 1)</b>   | 1                                     |
| <b>Explosive limit ranges</b>   | Not applicable                        |
| <b>Vapour Pressure (mmHg)</b>   | 17 mmHg at 20 degC (Water)            |
| <b>Vapour Density (Air=1)</b>   | Not applicable                        |
| <b>Density (g/ml)</b>   | 1.2 – 1.25 at 25 degC                 |
| <b>Solubility (Water)</b>   | Partially soluble                     |
| <b>Solubility (Other)</b>   | Partially soluble in organic solvents |
| <b>Partition Coefficient (n-Octanol/water)</b>                              | Not applicable                        |
| <b>Auto Ignition Temperature (°C)</b>                                       | Not applicable                        |
| <b>Decomposition Temperature (°C)</b>                                       | > 100 degC (Partly Evaporates)        |
| <b>Viscosity</b>  | Viscous liquid                        |
| <b>Explosive properties</b>   | Not explosive                         |
| <b>Oxidising properties</b>   | Not oxidising                         |
| <b>9.2 Other information</b>  |                                       |

## 10. STABILITY AND REACTIVITY

|      |   |  |
|------|---|--|
| 10.1 | <b>Reactivity</b>   | Oxidises   |
| 10.2 | <b>Chemical stability</b>                                 | Stable under normal conditions   |
| 10.3 | <b>Possibility of hazardous reactions</b>                 | Possibility of highly exothermic reaction with strong oxidizing agents |
| 10.4 | <b>Conditions to avoid</b>                                | High temperatures  |
| 10.5 | <b>Incompatible materials</b>                             | Strong oxidising agents  |
| 10.6 | <b>Hazardous Decomposition Product(s) Nitrogen oxides</b> |  |

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### 11.1.1 Substances

|  |   |
|--|---|
| <b>Acute toxicity</b>                      |   |
| Ingestion                                  | LD50 :>10 000 mg/kg (rat) (Calculated as product)   |
| Inhalation (4 hrs)                         | Not applicable  |
| Skin Contact                               | LD50 :> 10 000 mg/kg (rabbit) (Calculated as product)   |
| <b>Skin corrosion / irritation</b>         | Unlikely to cause skin irritation   |
| <b>Serious eye damage / irritation</b>     | Product is slightly irritant to eyes. Contains low concentrations (< 0.5%) of corrosive ingredients                                 |
| <b>Respiratory or skin sensitization</b>   | Product is not sensitizing  |
| <b>Mutagenicity</b>                        | There is no evidence of mutagenic potential   |
| <b>Carcinogenicity</b>                     | No evidence of carcinogenicity  |
| <b>Reproductive toxicity</b>               | No evidence of reproductive toxicity  |
| <b>STOT-single exposure</b>                | <b>Inhalation:</b> Irritation of the respiratory tract. Coughing. Unlikely route of exposure.<br><b>Ingestion:</b> Nausea, vomiting |
| <b>STOT-repeated exposure</b><br>(91 days) | NOAEL > 10 000 mg/kg/day(rat)(Calculated as product)  |

#### 11.2 Other information

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

|   |   |
|---|---|
| (Fish) (96hrs)                                    | LC50 > 1000 mg/l (Calculated as product)                  |
| (Daphnia magna) (48hrs)                           | EC50 > 1 000 mg/l (Calculated as product)                 |
| (Algae) (72hrs)                                   | EC50 > 1 000 mg/l (Calculated as product)                 |
| <b>12.2 Persistence and degradability</b>         | The organic ingredients are Biodegradable                 |
| <b>12.3 Bioaccumulative potential</b><br>(96 hrs) | The product has no potential for bioaccumulation.         |
| <b>12.4 Mobility in soil</b>                      | The substance is predicted to have high mobility in soil. |
| <b>12.5 Results of PBT and vPvB assessment</b>    | Not classified as PBT or vPvB.                            |

## 13. DISPOSAL CONSIDERATIONS

|                                     |   |
|-------------------------------------|---|
| <b>13.1 Waste treatment methods</b> | Do not empty into drains. Dispose of this material and its container at waste collection centre. Dried paint may be disposed of by landfill in accordance with local regulations. |
| <b>13.2 Additional Information</b>  | The waste is considered to be non hazardous.  |
| <b>12.6 Other adverse effects</b>   |   |

## 14. TRANSPORT INFORMATION

|  |  |
|--|--|
| <b>14.1 Land transport (ADR/RID)</b><br>UN number  | Not classified as dangerous for transport. |
| <b>14.2 Sea transport (IMDG)</b><br>UN number      | Not classified as dangerous for transport. |
| <b>14.3 Air transport (ICAO/IATA)</b><br>UN number | Not classified as dangerous for transport. |

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## 15. REGULATORY INFORMATION

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

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#### 15.1.1 EU regulations

Authorisations and / or restrictions on use. Not applicable

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#### 15.1.2 National regulations

Not applicable

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### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment (CSA) has been carried out

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## 16. OTHER INFORMATION

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### References

European Chemicals Agency

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European Chemicals Bureau

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European Regulations and Directives

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Published chemical directories

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Suppliers' safety data sheets

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UK Health and Safety Executive

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### Risk Phrases

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### Safety Phrases

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### Hazard statement(s)

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## Additional Information

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. **Bare Conductive Limited** gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. **Bare Conductive Limited** accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.

### Prepared by:

Edmund Fowles  
EF Chemical Consulting Ltd  
17 Kings Crescent East  
Chester CH3 5TH  
UK

**T:** +44 (0)1244 351644

**E:** edmund@efchemicalconsulting.co.uk

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