



**Bare
Conductive®**

Electric Paint®

Safety Data Sheet

English

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	Bare Conductive Paint
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 First Floor 98 Commercial Street London E1 6LZ
Telephone	+44 (0)20 7650 7977
E-Mail (competent person)	info@bareconductive.com

1.4 Emergency telephone number

Emergency Phone No.	+44 (0)20 7650 7977 / Technical manager
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2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

2.2 Label elements

2.2.1 Label elements	According to Regulation (EC) No. 1272/2008 (CLP)
Hazard Symbol	Not applicable
Risk Phrases	Not applicable
Safety Phrases	Not applicable

2.3 Other hazards

2.4 Additional Information

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

REACH Regulations EC No. 1907/2006 and Annex VI Regulation (EC) No 1272/2008

Ingredients	%W/W	CAS No.	EC No.	Hazard statement(s)
Water	30-50%	7732-18-5	231-791-2	Not classified.
Natural Resin	20-40%	9000-01-5	232-519-5	Not classified.
Conductive carbon	5-20%	1333-86-4	215-609-9	Not classified.
Conductive carbon	5-20%	7782-42-5	231-955-3	Not classified.
Humectant	5-10%	56-81-5	200-289-5	Not classified
Processing aids and preservatives	0-1%	Mixture - Not applicable	Mixture - Not applicable	Individual levels below 1% do not give rise to classification

REACH Regulations EC No. 1907/2006 and Annex VI Regulation (EC) No 1272/2008

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

Inhalation	Remove patient from exposure. Give oxygen if breathing difficult. Apply artificial respiration if necessary. Obtain medical attention if ill effects occur.
Skin Contact	Wash affected skin with plenty of soap and water. Remove contaminated clothing and wash before reuse. Obtain medical attention if ill effects occur.
Eye Contact	If substance has got into the eyes, immediately wash out with plenty of water for at least 15 minutes. Obtain medical attention.
Ingestion	If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. Obtain medical attention.
4.2 Most important symptoms and effects, both acute and delayed	Unlikely to cause harmful effects under normal conditions of handling and use.
4.3 Indication of the immediate medical attention and special treatment needed	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

7.1 Precautions for safe handling	Avoid contact with skin and eyes. Natural ventilation is adequate.
7.2 Conditions for safe storage, including any incompatibilities	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

8.1 Control parameters

8.1.1 Occupational Exposure Limits **WEL: Workplace Exposure Limit (UK HSE EH40)**

LTEL (8 hr TWA mg/m ³)	Not listed
LTEL (8 hr TWA mg/m ³)	Not listed

8.2 Exposure controls

8.2.1 Appropriate engineering controls Ventilation recommended. Follow the principles of good occupational hygiene to control personal exposures.

8.2.2 Personal protection equipment

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.

8.2.3 Environmental Exposure Controls Do not allow to enter drains, sewers or watercourses.



9. PHYSICAL AND CHEMICAL PROPERTIES.

9.1 Information on basic physical and chemical properties (Solution)

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

9.2 Other information

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.1 Substances

Acute toxicity	
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)
Skin corrosion / irritation	Unlikely to cause skin irritation
Serious eye damage / irritation	Product is slightly irritant to eyes. Contains low concentrations (< 0.5%) of corrosive ingredients
Respiratory or skin sensitization	Product is not sensitizing
Mutagenicity	There is no evidence of mutagenic potential
Carcinogenicity	No evidence of carcinogenicity
Reproductive toxicity	No evidence of reproductive toxicity
STOT-single exposure	Inhalation: Irritation of the respiratory tract. Coughing. Unlikely route of exposure. Ingestion: Nausea, vomiting
STOT-repeated exposure (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)
12.2 Persistence and degradability	The organic ingredients are Biodegradable
12.3 Bioaccumulative potential (96 hrs)	The product has no potential for bioaccumulation.
12.4 Mobility in soil	The substance is predicted to have high mobility in soil.
12.5 Results of PBT and vPvB assessment	Not classified as PBT or vPvB.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	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.
13.2 Additional Information	The waste is considered to be non hazardous.
12.6 Other adverse effects	

14. TRANSPORT INFORMATION

14.1 Land transport (ADR/RID) UN number	Not classified as dangerous for transport.
14.2 Sea transport (IMDG) UN number	Not classified as dangerous for transport.
14.3 Air transport (ICAO/IATA) UN number	Not classified as dangerous for transport.

15. REGULATORY INFORMATION

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

15.1.1 EU regulations

Authorisations and / or restrictions on use. Not applicable

15.1.2 National regulations

Not applicable

15.2 Chemical Safety Assessment

No Chemical Safety Assessment (CSA) has been carried out

16. OTHER INFORMATION

References

European Chemicals Agency

European Chemicals Bureau

European Regulations and Directives

Published chemical directories

Suppliers' safety data sheets

UK Health and Safety Executive

Risk Phrases

Safety Phrases

Hazard statement(s)

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.

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