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	**Bare Conductive Paint**
	Chemical Name	*Water-based dispersion of carbon pigment in Natural resin*
	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 3432 5385
	E-Mail (competent person)	**info@bareconductive.com**

1.4	**Emergency telephone number**	
	Emergency Phone No.	**+44 (0)20 3432 5385 / Technical manager**

2. HAZARDS IDENTIFICATION

2.1	**Classification of the substance or mixture**	
2.1.1	**Regulation (EC) No. 1272/2008 (CLP)**	
2.1.2	**Directives 1999/45/EC**	Preparation is not classified as hazardous according to Directives 1999/45/EC.
2.2	**Label elements**	
2.2.1	**Label elements**	According to Regulation (EC) No. 1272/2008 (CLP)
2.2.2	**Label elements**	According to Directive 1999/45/EC
	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

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**	
	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**	Adsorb 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/m³)	Not listed
	LTEL (8 hr TWA mg/m³)	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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