

1.1

Product identifier GHS Product Identifier

Bare Conductive Electric Paint **Safety Data Sheet**

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





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

Bare Conductive Paint

	On 5 moduce racritimes	Date Conductive Faint
	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	e substance or mixture and uses advised against
	Identified use(s)	Electrically conductive paint
	Uses advised against	None
1.3 De	etails of the supplier of the safe	ty 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 IDENTIF	CATION
2.1	Classification of the substance	or mixture
2.1.1	Regulation (EC) No. 1272/200	8 (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. Not classified. Natural Resin Trade secret Trade secret Not classified. Conductive carbon Trade secret Trade secret Humectant Trade secret Trade secret Not classified. Individual levels below 1% do not give rise to classification Processing aids and preservatives Trade secret Trade secret EC Classification No. 67/548/EEC Classification and Risk Phrases Hazard statement(s) %W/W CAS No. EC No.

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 Combustion or thermal decomposition will evolve toxic irritant vapours. (Nitrogen oxides)		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		
	(Hand protection) Gallery.			
	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	Do not allow to enter drains, sewers or watercourses.		

PHYSICAL AND CHEMICAL PROPERTIES.

9.1 Information on basic physical and chemical properties (Solution)		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		Not applicable
		17 mmHg at 20 degC (Water)
		Not applicable
		1.2 – 1.25 at 25 degC
		Partially soluble
	Solubility (Other)	Partially soluble in organic solvents
Partition Coefficient Not applicable (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

Controls

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	1 on	toxico	logical	effects
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	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)
1.2	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 classifie 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 landfil 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 classifie	as dangerous for transport.
14.2	Sea transport (IMDG) UN number	Not classifie	as dangerous for transport.
14.3	Air transport (ICAO/IATA) UN number	Not classifie	as dangerous for transport.

15. REGULATORY INFORMATION

5.1	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

Suppliers' safety data sheets
UK Health and Safety Executive
 UK Health and Safety Executive

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 fitnes 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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