

DZP Technologies Ltd
Future Business Centre
Kings Hedges Rd
Cambridge CB4 2HY
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SAFETY DATA SHEET

Carbon conductive ink C0410

1	Identification of substance
Trade name	Carbon conductive ink C0410
Description	Aqueous dispersion of carbon black particles in proprietary polymer binder
Identified uses	Research and development
Supplier	DZP Technologies Limited, Future Business Centre, Kings Hedges Rd, Cambridge CB4 2HY, UK
Contact for technical inquiries	Phone: +44(0)1223 781191, info@dzptechnologies.com

2	Hazard identification
	Relevant routes to exposure: Skin, inhalation, eyes
	Inhalation: Excessive inhalation may cause headache, dizziness, nausea.
	Skin contact: Causes irritation to the skin.
	Eye contact: Causes irritating to the eyes.
	Indigestion: May cause gastrointestinal irritation, nausea, vomiting, diarrhea.
Label elements	Void.

3	Composition and information on ingredients
Description	Mixture of non-hazardous substances.
Ingredients	Carbon, < 16 % (weight) CAS number 1333-86-4

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4	First aid measures
Inhalation	Remove the affected individual from exposure and supply fresh air. Apply artificial respiration and other support as required. Consult doctor if irritation of respiratory passages occurs.
Skin contact	Wash thoroughly with soap and water. Consult doctor if irritation continues. Remove contaminated clothing and wash before re-use.
Eye contact	Rinse with running water for 20 minutes. Consult doctor if irritation continues.
Indigestion	Rinse mouth thoroughly. Consult doctor if irritation continues.
Most important symptoms and effects, both acute and delayed	No further relevant information available.

5	Fire fighting measures
Flash point	No data available.
Autoignition temperature	No data available.
Flammable limits	No data available.
Special firefighting procedures	Wear full protective clothing. Wear self-contained breathing apparatus.
Extinguishing media	Water spray, foam, dry powder or carbon dioxide
Unusual fire or explosion hazards	Not a fire hazard.
Hazardous combustion products	During fire, this compound forms toxic gases (CO, CO ₂).

6	Accidental release measures
Spill procedures	Mop up small spillages with washing up liquid.
Environmental protection	Avoid discharge in sewer or waterways.
Person related safety precautions	Wear protective equipment.

7	Handling and storage
Safe handling	Avoid contact with eyes, skin and clothing. Wash hands thoroughly after handling. Do not inhale or ingest. Loosen closure cautiously before opening.
Storage requirements	<u>Do not freeze.</u> Keep containers sealed. Store in cool, dry and well-ventilated place. Protect from direct sunlight.

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8	Exposure controls and personal protection
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The usual precautionary measures should be adhered to in handling chemicals. Wear protective glasses and protective work clothes. Keep away from food and drinks. Wash hands during breaks.

9	Physical and chemical properties
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Form	Black coloured liquid
Odour	Residual odour from polymer binders may be present.
pH value	Not determined.
Danger of explosion	The product is not explosive.
Self-ignition	The product is not self-igniting.
Melting, boiling and flash points	Not determined.
Ignition temperature	Not determined.
Vapour pressure	Not determined.
Viscosity	Brookfield 4,000 - 5,000 mPa.s (cP) at 20 r.p.m. at 20 °C.
Solvent	Water
Solids content	26-28 % (weight)

10	Stability and reactivity
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Stability	Stable at normal temperatures and pressures.
Hazardous reactions	Not applicable.
Materials to be avoided	Not applicable.
Decomposition	Carbon oxides are formed during fire.
Conditions to avoid	Avoid excessive heat, flames and other ignition sources.

11	Toxicological information
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No data available.

12	Ecological information
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No data available.

13	Disposal considerations
	The product must be disposed of according to local and national regulations.
14	Transport information
General	This product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).
Transport/Additional information	Not dangerous.
15	Regulatory information
General	Observe the normal safety regulations when handling chemicals. For use only by technically qualified individuals.
Water hazard	Not applicable.
16	Other information
	The information herein is presented in good faith and believed to be accurate as of the date shown above. However, no warranty, express or implied, is given. It is the client's responsibility to ensure that its activities comply with the relevant laws.