

# Safety Data Sheet

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## SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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Product Code: MDR-720

Product Name: Transducer Paint

<b>Manufacturer's Name:</b> MARINE DEVELOPMENT & RESEARCH	<b>Emergency Telephone Number:</b> 352-323-3500
<b>Address (Number, Street, City, State, ZIP)</b> 515 EAST 41 <sup>ST</sup> ST	<b>Telephone Number for Information:</b> 973-754-7000
PATERSON, NJ 07504	<b>Date Prepared:</b> 2/25/15
	<b>Signature of Preparer (optional):</b>

## SECTION 2: HAZARDS IDENTIFICATION

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Risk of eye irritation. Toxic to aquatic organisms, may cause long-term adverse effects in aquatic environment.

## SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

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Component	CAS Registry #	% w/w	Symbol	R-phrases
Cuprous Oxide	1317-39-1	>10.0 - <27.0	Xn;N	22-50/53
Ethylene Glycol	107-21-1	1.0 – 2.0	Xn	22
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See section 16 for text of R-phrases

## SECTION 4: FIRST-AID MEASURES

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**General Advice:** If in doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

**If Inhaled:** Remove to fresh air

**If on Skin:** Wash affected area thoroughly with soap and water. If irritation persists, see a physician.

**If in Eyes:** Flush immediately with large quantities of water. See a physician.

**If Swallowed:** Give 2-3 glasses of water to drink. Get medical attention.

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## SECTION 5: FIRE FIGHTING MEASURES

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**Extinguishing Media:** Dry chemical, Foam, CO<sub>2</sub>, Avoid direct water jet

**Special Fire Fighting Procedures:** Fire fighters should wear full protective clothing and self-contained breathing apparatus. Persons not wearing suitable breathing protection should leave the area to prevent significant exposure to toxic combustion gasses.

**Hazardous Combustion Products:** Toxic gas generation (CO<sub>2</sub>, CO)

**Environment:** Do not emit to sewers, waterways or soil. Advise the environmental authorities if substance has entered a watercourse or sewers.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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**Personal Protection:** See section 8 for personal protection

**Environmental Protection:** Do not emit to sewers, waterways or soil. Advise the environmental authorities if liquid product enters a waterways or sewer.

**Collection:** Contain spill with absorbent material. Once material is contained, allow to dry, collect material for disposal. See section 13.

## SECTION 7: HANDLING AND STORAGE

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**Handling:** Treat as a latex paint. See section 8 for personal protection.

**Storage:** Store in original containers in cool, dry area. Protect from freezing.

## SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

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**Engineering measures:** Provide for adequate ventilation. Eyewash station should be available in work area.

**Occupational Exposure Limits:** According to national regulations.

### Personal Protection:

- **Respiratory:** Wear approved respiratory protection. Type of respirator depends on the airborne concentrations from other chemical substances in the work area.
- **Eye Protection:** Wear splash proof goggles.
- **Hand Protection:** Wear chemical resistant gloves (latex, rubber). Gloves should be selected in consultation with the glove supplier, with information on effects from other chemical substances in the work place. Wash well after contact with this product.
- **Skin Protection:** Wear protective clothing (apron, long sleeve shirt)
- **Environment:** Do not emit to sewers, waterways or soil. Advise the environmental authorities if substance has entered a watercourse or sewer.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance:</b> Black viscous liquid	<b>Physical State:</b> Liquid
<b>Boiling Point:</b> 100° C (water)	<b>Solubility in Water:</b> Miscible
<b>Evaporation Rate:</b> N/A	<b>Bac:</b> <1
<b>Freezing Point:</b> 0°C (water)	<b>Specific Gravity:</b> 1.3709 @ 20°C (water=1)
<b>Melting Point:</b> N/A	<b>Vapor Density:</b> <1 @ 20°C (water)
<b>Molecular Weight:</b> N/A	<b>Vapor Pressure:</b> 17 mmHg @ 20°C (water)
<b>Odor:</b> Slight ammonium odor	<b>Viscosity:</b> N/A
<b>pH:</b> 8.5 – 9.5	<b>% Volatile:</b> N/A
	<b>Partition Coefficient:</b> N/A

## SECTION 10: STABILITY AND REACTIVITY

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**Stability:** The product is stable at normal handling and storage conditions.

**Conditions to avoid:** Protect from freezing

**Materials to avoid:** Strong oxidizing agents, (Hydrogen Peroxide/ Permanganates/ Perchlorates) depending on the amount. Contact can result in intense heat/ explosion.

## SECTION 11: TOXICOLOGICAL INFORMATION

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**Eye:** Will cause eye irritation and redness.

**Skin:** May cause redness and eczema. Repeated or prolonged skin contact may cause irritation and develop secondary allergic reactions. May dry out and defat skin tissue.

**Ingestion:** May cause irritation and soreness of mouth and throat. May cause vomiting and stomach pain. Ingestion of large quantities may be toxic.

**Inhalation:** Inhalation of concentrated vapors may irritate respiration system.

**Sensibility:** Repeated and prolonged contact may cause secondary allergic reaction.

## SECTION 12: ECOLOGICAL INFORMATION

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**Ecological Information:** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Mobility:** The product is miscible in water.

**Persistence/ Degradability:** The criteria for biological degradability cannot be adapted to inorganic materials.

**Further information:** Prevent liquid product from entering sewers or waterways.

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## SECTION 13: DISPOSAL CONSIDERATIONS

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Material should be disposed of in accordance with National and Local regulations.

## SECTION 14: TRANSPORT INFORMATION (Not meant to be all inclusive)

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UN-nr: 3082 ADR/RID- Class 9 PG:III Label: 9+p  
Shipping name: Environmentally hazardous liquid n.o.s (Cuprous Oxide)

IMDG-Code: 9 UN-nr: 3082 PG: III Label: 9+p  
Shipping name: Environmentally hazardous liquid n.o.s (Cuprous Oxide)

## SECTION 15: REGULATORY INFORMATION (Not meant to be all inclusive- selected regulation represented)

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**Contains:** Cuprous Oxide (>10-<27%)

**R-phrases:** 22 – Harmful if swallowed  
50/53 – Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S-phrases:** 2 – Keep out of the reach of children  
13 – Keep away from food, drink and animal feeding stuffs.  
20/21 – When using do not eat, drink or smoke.  
37 – Wear suitable gloves  
39 – Wear eye/face protection  
29/35 – Do not empty into drains; dispose of this material and its container in a safe way  
46 - If swallowed, seek medical advice immediately and show this container or label  
57 – Use appropriate containment to avoid environmental contamination  
60 – This material and its container must be disposed of as hazardous waste  
61 – Avoid release to the environment. Refer to special instructions/ Safety Data Sheet

## SECTION 16: OTHER INFORMATION

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### R-phrases section 3:

22 – Harmful if swallowed  
20 – Harmful by inhalation  
36 – Irritating to eyes  
43 – May cause sensitization by skin contact  
50/53 – Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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