

# Material Safety Data Sheet



## **1 Product and Company Information:**

Product name: CdSe/ZnS Core/Shell Quantum Dot Beads in Water with Carboxylic Acid Group

Catalog Number(s): QBC550; QBC580; QBC620; QBC550/620

Revision Date: August 06, 2009

Manufacturer/Supplier:

Ocean NanoTech LLC

2143 Worth Lane

Springdale Arkansas 72764

Telephone: 479-751-5500

Web Site: [www.oceannanotech.com](http://www.oceannanotech.com)

## **2 Composition/Information on Ingredients:**

CAS Name/Number: CdSe/1306-24-7; ZnS/1314-98-3; Water/7732-18-5

## **3 Hazards identification**

Emergency Overview: The health hazards of this product have not been fully tested and should be used with caution.

Exposure to skin, eyes, and respiratory tract could cause irritation.

POTENTIAL HEALTH EFFECTS

Inhalation: Not available

Skin Contact: Not available

Ingestion: Not available

Eye Contact: Not available

## **4 First aid measures**

Skin Contact: Wash the skin thoroughly with soap and water and seek medical advice.

Eye contact: If eye contact occurs, rinse eye thoroughly and seek medical advice

Inhalation: If inhaled, supply fresh air or respirator and seek medical advice.

Ingestion: If swallowed, seek medical attention immediately

## **5 Fire fighting measures**

Extinguishing Media: N/A; Product is not flammable

## **6 Accidental release measures**

Personal Precautions: Always use proper protective equipment.

Environmental Precautions: Do not allow material to reach drains or ground water.

Cleanup of small spills: Use appropriate material to absorb liquid.

Disposal: Collect and dispose of all waste in an appropriate container.

## **7 Handling and storage**

Handling: Follow safe laboratory practices. The product should only be used by or closely supervised by an individual trained to handle potentially hazardous materials.

Storage: Store at 4 °C in a tightly sealed container. Store in same type of container (glass/plastic) as shipped. Do not freeze.

## **8 Exposure controls and personal protection**

Engineering Controls: Use fume hood with proper ventilation.

Personal Protection: Gloves, lab coat, and goggles.

## **9 Physical and chemical properties:**

Form: Liquid

Color: Green to dark red

pH: Not disclosed

Specific Gravity: Not disclosed

Boiling point: Water (100 C) 212 F

Melting point: Not disclosed

Freezing point: Water (0 C) 32 F

Vapor Pressure: Not disclosed

Odor: Not disclosed

Solubility in Water: Soluble

## **10 Stability and reactivity**

Stability: The product is stable

Conditions to avoid: Not determined

Thermal decomposition: Not determined

Materials to avoid: Not determined

## **11 Toxicological information**

RTECS Number: Not disclosed

Toxicity: Not disclosed

Health Hazards: Refer to section 4

Carcinogenicity: No information is available

## **12 Ecological information:**

No data available. See section 6

## **13 Disposal considerations**

Dispose of in accordance with local, state, or national regulations.

## **14 Transport information**

U.S. DOT Classification: Not a hazardous material for land or air transport.

Identification Number: Not applicable

Packing Group: Not applicable

Proper Shipping Name: Not applicable

## **15 Regulations**

No data available for TSCA, EEC EINECS number, EEC risk statements, or other regulations.

## **16 Other information:**

Disclaimer: For R&D only. Not intended for food, drug, household, agricultural or cosmetic use.

The above information is believed to be correct. Ocean NanoTech LLC shall not be held liable for any damage resulting from handling or contact with the above product.