

MSDS Sheet

CdSe/CdS/ZnS Nanocrystals, either dry or in water

1. Product and Company Identification:

Chemical Name : Cadmium Selenide nanocrystals
Trade name : AxiCad Quantum dots
Molecular weight : Trade Secret
Chemical family : II-VI nanocrystals
State : As solid powders, or dispersed in water (CAS No. 7732-18-5).
Company : NanoAxis Llc.
Address : PO Box 767
Getzville, NY-14068-0767.
Phone : (716)908-2392

2. Composition:

Component	CAS #	% by weight
CdSe	1306-24-7	1.0 %
CdS	1306-23-6	< 0.5 %
ZnS	1314-98-3	< 0.5 %
D-Lysine	923-27-3	< 0.5 %
DL-Cysteine	3374-22-9	< 0.5 %
Water	7732-18-5	97-98%

3. **Hazards Identification:** Potential carcinogen. Harmful if swallowed, inhaled, or contacted with eye or skin. May cause impaired fertility. Not approved by FDA for human use.

Potential health effects:

Inhalation : Not determined
Ingestion : Not determined
Skin : Not determined
Eyes : Not determined
Target Organs : Liver, lungs, kidney, spleen.

4. First aid:

If swallowed or inhaled: Immediately seek medical help.
If contacted with eye or skin: Rinse with copious amounts of water; use soap if applicable; seek immediate medical help.

5. **Fire fighting measures:** Product not flammable.

6. **Accidental release measures:** Utilize personal protective equipment. For small spills, absorb with spill yellow. Dispose in appropriate waste containers.

7. **Handling and storage:** Wear protective clothing (lab coats, gloves, eye-protection, etc.). Products are better stored (solid or liquid) at 4⁰C (do not freeze), in tightly sealed containers. Avoid exposure to light. Wash hands after use with soap.

8. **Transportation:** No specific regulations.

9. **Physical and Chemical properties:**

Form : Solid powder or aqueous dispersion

Solubility in Water : Excellent

Specific gravity : Not disclosed

pH : 7-7.4

Boiling Point : Not disclosed

Melting Point : Not disclosed

10. **Disposal:** Consult local, state or national regulations for proper disposal.

11. **Environmental leakage:** Do not allow product to reach ground water, water course, or sewage.

12. **Warranty:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. NanoAxis Llc., shall not be held liable for any damage resulting from handling or from contact with the above product.