

Material Safety Data Sheet



1 Product and Company Information:

Product name: **Bismuth nanocolloid with NTA-Ni group (BIT)**

Catalog Number(s): BIT

Revision Date: February 11, 2011

Manufacturer/Supplier:

Ocean NanoTech LLC

2143 Worth Lane - Springdale, Arkansas 72764

Tel: 479 751 5500

Web Site: www.oceannanotech.com

2 Composition/Information on Ingredients:

CAS Name/Number: Bismuth neodecanoate 34364-26-6, Sorbitan sesquioleate 8007-43-0

Soy phosphatidyl choline 97281-47-5, Glycerol 56-81-5, Water 7732-18-5

1,2-dioleoyl-sn-glycero-3-[(N-(5-amino-1-carboxypentyl)iminodiacetic acid)succinyl] (ammonium salt)

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: May be harmful if inhaled. May cause respiratory tract irritation.

Skin Contact: May be harmful if absorbed through skin. May cause skin irritation.

Ingestion: May be harmful if swallowed. Eye Contact: May cause eye irritation.

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, wash out mouth with water, seek medical attention immediately

5 Fire fighting measures

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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 4-24 °C in a tightly sealed container. Store in same type of container (glass) 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

Specific Gravity: Not disclosed

Boiling point: Water (100 C) 212 F

Color: White

pH: Not disclosed

Freezing point: Water (0 C) 32 F

Odor: Not disclosed

Melting point: Not disclosed

Vapor Pressure: 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

Acute toxicity: no data available

Irritation and corrosion : no data available

Sensitisation: no data available

Chronic exposure: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

12 Ecological information:

Elimination information (persistence and degradability)

no data available

Ecotoxicity effects

no data available

Further information on ecology

no data available

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.