

**SAFETY DATA SHEET**  
SILVER NANOPARTICLES - ALL SIZES

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Revision No: 1

**Section 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

Product name: SILVER NANOPARTICLES - ALL SIZES

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Use of substance / mixture: For Laboratory Use Only

**1.3. Details of the supplier of the safety data sheet**

Company name: BBI Solutions OEM Ltd.

Cardiff Facility

73 Ty Glas Avenue

Cardiff

CF14 5DX

United Kingdom

Tel: +44 (0) 29 2074 7232

Email: [info@bbisolutions.com](mailto:info@bbisolutions.com)

**1.4. Emergency telephone number**

Emergency tel: +44 (0) 29 2074 7232

(office hours only)

**Section 2: Hazards identification**

**2.1. Classification of the substance or mixture**

Classification under CLP: This product has no classification under CLP.

**2.2. Label elements**

Label elements: This product has no label elements.

**2.3. Other hazards**

PBT: This product is not identified as a PBT/vPvB substance.

**Section 3: Composition/information on ingredients**

**3.2. Mixtures**

**Section 4: First aid measures**

**4.1. Description of first aid measures**

**Skin contact:** Wash immediately with plenty of soap and water.

**Eye contact:** Bathe the eye with running water for 15 minutes.

**Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water.

[cont...]

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**Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration.

**4.2. Most important symptoms and effects, both acute and delayed**

**Skin contact:** May be harmful if absorbed through skin. May cause respiratory tract irritation

**Eye contact:** May cause eye irritation

**Ingestion:** May be harmful if swallowed

**4.3. Indication of any immediate medical attention and special treatment needed****Section 5: Fire-fighting measures****5.1. Extinguishing media**

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used.

**5.2. Special hazards arising from the substance or mixture**

**Exposure hazards:** no data available

**5.3. Advice for fire-fighters**

**Advice for fire-fighters:** Wear self-contained breathing apparatus.

**Section 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions:** Avoid breathing vapours, mist or gas.

**6.2. Environmental precautions**

**Environmental precautions:** Do not discharge into drains or rivers.

**6.3. Methods and material for containment and cleaning up**

**Clean-up procedures:** Absorb onto appropriate spill kit material or suitable inert absorbent. Keep in suitable closed container for disposal.

**6.4. Reference to other sections**

**Reference to other sections:** Refer to section 13 of SDS.

**Section 7: Handling and storage****7.1. Precautions for safe handling**

**Handling requirements:** Ensure there is sufficient ventilation of the area.

**7.2. Conditions for safe storage, including any incompatibilities**

**Storage conditions:** Store at 2-8°C Keep container tightly closed. Do not freeze

**Suitable packaging:** Must only be kept in original packaging.

**7.3. Specific end use(s)**

**Specific end use(s):** For laboratory use only.

[cont...]

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**Section 8: Exposure controls/personal protection**

**8.1. Control parameters**

Workplace exposure limits: No data available.

**DNEL/PNEC Values**

DNEL / PNEC No data available.

**8.2. Exposure controls**

Engineering measures: Not required under normal working conditions

Respiratory protection: Respiratory protection not required.

Hand protection: Gloves must be inspected before use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with substance. Select gloves to meet the specifications of standard EN374

Eye protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)

Skin protection: Fully buttoned laboratory coat

**Section 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

State: Liquid

Colour: Yellow

Evaporation rate: No data available.

Oxidising: No data available.

Solubility in water: Soluble

Viscosity: No data available.

Boiling point/range°C: No data available.

Melting point/range°C: No data available.

Flammability limits %: lower: Not applicable.

upper: Not applicable.

Flash point°C: Not applicable.

Part.coeff. n-octanol/water: No data available.

Autoflammability°C: No data available.

Vapour pressure: No data available.

Relative density: No data available.

pH: No data available.

VOC g/l: No data available.

**9.2. Other information**

Other information: No data available.

**Section 10: Stability and reactivity**

**10.1. Reactivity**

Reactivity: No data available.

**10.2. Chemical stability**

Chemical stability: No data available.

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**10.3. Possibility of hazardous reactions**

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.

**10.4. Conditions to avoid**

**Conditions to avoid:** No data available

**10.5. Incompatible materials**

**Materials to avoid:** No data available.

**10.6. Hazardous decomposition products**

**Haz. decomp. products:** No data available.

**Section 11: Toxicological information****11.1. Information on toxicological effects**

**Toxicity values:** No data available.

**Symptoms / routes of exposure**

**Skin contact:** May be harmful if absorbed through skin. May cause respiratory tract irritation

**Eye contact:** May cause eye irritation

**Ingestion:** May be harmful if swallowed

**Other information:** To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated

**Section 12: Ecological information****12.1. Toxicity**

**Ecotoxicity values:** No data available.

**12.2. Persistence and degradability****12.3. Bioaccumulative potential****12.4. Mobility in soil****12.5. Results of PBT and vPvB assessment**

**PBT identification:** This product is not identified as a PBT/vPvB substance.

**12.6. Other adverse effects****Section 13: Disposal considerations****13.1. Waste treatment methods**

**Disposal operations:** Offer surplus and non-recyclable solutions to a licensed disposal company. Dispose of contaminated packaging as unused product.

**Disposal of packaging:** Dispose of as unused product

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

[cont...]

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### Section 14: Transport information

**Transport class:** This product does not require a classification for transport.

### Section 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.2. Chemical Safety Assessment

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

### Section 16: Other information

#### Other information

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

\* indicates text in the SDS which has changed since the last revision.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.