

# Material Safety Data Sheet

Issue Date 23/11/2015

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## 1. Product and Manufacturer Information

Substance or preparation trade name: Protein A Gold  
Unique reference numbers(s): PAG5/PAG10/PAG20/PAG40  
Manufacturer name & address: Nano Biosols Ltd, Liverpool Science Park,  
131 Mount Pleasant, Liverpool L3 5TF UK  
Telephone: +44 (0)151 2302085  
Website: www.nanobiosols.com

## 2. Composition

| Substance        | % content | CAS Number |
|------------------|-----------|------------|
| Protein A        | 0.002     | 91932-65-9 |
| Gold colloid     | 0.01      | 7440-57-5  |
| Sodium chloride  | 1         | 7647-14-5  |
| Tris base        | 0.2       | 77-86-1    |
| Albumin (bovine) | 1         | 9048-46-8  |
| Sodium azide     | 0.1       | 26628-22-8 |
| Water            | 97.6      | 7732-18-5  |

## 3. Hazards Identification

Most important hazards: None identified at these concentrations.  
Specific hazards:

## 4. First aid measures

Skin contact: Flush with copious amounts of water.  
Eye contact: Flush with copious amounts of water  
Ingestion: Wash out mouth with copious amounts of water

## 5. Fire fighting measures

Suitable extinguishing media: Water/carbon dioxide/foam  
Required special protective equipment for fire-fighters: None

## 6. Accidental release measures

Environmental precautions:  
(Methods for spillage) Adsorb on tissues. Dispose as solid chemical waste or incinerate.

## 7. Handling and storage

Handling: Avoid contact with eyes or skin and clothing  
Storage: Store at 5 °C. Do not freeze.

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## 8. Exposure Controls

Personal protection equipment: Safety goggles, nitrile gloves, lab coat.

## 9. Physical and chemical properties

|             |                      |
|-------------|----------------------|
| Appearance: | Ruby coloured liquid |
| Odour:      | None                 |
| pH:         | 8.2                  |
| Flashpoint: | N/A                  |
| Solubility: | Soluble              |

## 10. Stability and reactivity

|                                   |           |
|-----------------------------------|-----------|
| Stability                         | Stable    |
| Hazardous decomposition products: | Not known |

## 11. Toxicological information

Excessive exposure may affect human health as follows:

|                       |   |
|-----------------------|---|
| Skin contact:         | Gold compounds can cause contact dermatitis or irritation |
| Eye contact:          | May cause eye irritation                                  |
| Inhalation/ingestion: | May be harmful if swallowed.                              |

## 12. Ecological information

No data available

## 13 Disposal Considerations

Solid waste may be incinerated. Soluble waste should be washed away with copious amounts of water

## 14. Transport information

Non-hazardous for road, sea and air transport