

# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

### Identification of the product

**Product code:** BDT980GOA

**Product name:** Bright-Dtech™ 980-Yb (Infrared) coupled to Anti-Goat IgG (H+L)

### Company Identification

Poly-Dtech SAS  
204 Avenue de Colmar  
67100 Strasbourg

## 2. Composition / Information on Ingredients

The product contains no substances which at their given concentration, are considered to be hazardous to health.

## 3. Hazards Identification

### GHS – Classification

#### Signal word

None

#### Health hazards

Not classified

#### Physical hazards

Not classified

#### hazard statements

Not applicable

#### Precautionary Statements

Not applicable

#### Principle Routes of Exposure/

#### Potential Health effects

**Eyes**

May cause eye irritation with susceptible persons.

**Skin**

May cause skin irritation in susceptible persons.

**Inhalation**

May be harmful by inhalation.

**INGESTION**

May be harmful if swallowed.

#### Specific effects

**Carcinogenic effects**

None.

**Mutagenic effects**

None.

**Reproductive toxicity**

None.

**Sensitisation**

None.

## 4. First Aids Measures

|                                                                    |                                                                                                                                             |
|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Skin contact</b>                                                | Rinse cautiously with water for several minutes. Immediate medical attention is not required.                                               |
| <b>Eye contact</b>                                                 | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.                                          |
| <b>INGESTION</b>                                                   | Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice. |
| <b>Inhalation</b>                                                  | Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.      |
| <b>Most important symptoms and effects, both acute and delayed</b> |                                                                                                                                             |
| Not applicable                                                     |                                                                                                                                             |
| <b>Notes to Physician</b>                                          | Treat symptomatically                                                                                                                       |

#### 5. Fire-Fighting Measures

|                                                      |                                                                     |
|------------------------------------------------------|---------------------------------------------------------------------|
| <b>Suitable extinguishing media</b>                  | Water spray. Carbon dioxide (CO <sub>2</sub> ). Foam. Dry chemical. |
| <b>Special protective equipment for firefighters</b> | Standard procedure for chemical fires.                              |
| <b>Specific hazards arising from the chemical</b>    | Not known                                                           |

#### 6. Accidental Release Measures

|                                                |                                                                                           |
|------------------------------------------------|-------------------------------------------------------------------------------------------|
| <b>Personal precautions</b>                    | Always wear recommended Personal Protective Equipment. Use personal protection equipment. |
| <b>Methods for cleaning up</b>                 | Soak up with inert absorbent material.                                                    |
| <b><u>Environmental precautions</u></b>        |                                                                                           |
| No special environmental precautions required. |                                                                                           |

#### 7. Handling and Storage

|                 |                                                                                            |
|-----------------|--------------------------------------------------------------------------------------------|
| <b>Handling</b> | Always wear recommended Personal Protective Equipment. Wear personal protective equipment. |
| <b>Storage</b>  | Keep in a dry, cool and well-ventilated place.                                             |

#### 8. Exposure Controls / Personal Protection

##### **Exposure Limits**

At this time, the limited evidence available suggests caution when potential exposures to nanoparticles may occur. Due to the limited information about health risks from nanomaterials, it is prudent to take steps for minimizing worker exposures. Research is still needed to understand the impact of nanotechnology on health, and to determine appropriate exposure monitoring and control strategies

|                                    |                                                            |
|------------------------------------|------------------------------------------------------------|
| <b><u>Engineering measures</u></b> | Ensure adequate ventilation, especially in confined areas. |
|------------------------------------|------------------------------------------------------------|

##### **Personal protective equipment**

Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

|                                 |                                                                           |
|---------------------------------|---------------------------------------------------------------------------|
| <b>Respiratory protection</b>   | In case of insufficient ventilation, wear suitable respiratory equipment. |
| <b>Hand Protection</b>          | Impervious gloves.                                                        |
| <b>Eye protection</b>           | Safety glasses with side-shields.                                         |
| <b>Skin and body protection</b> | Lightweight protective clothing.                                          |

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls**

No special environmental precautions required.

**9. Physical and Chemical Properties****General information**

|                               |                                           |
|-------------------------------|-------------------------------------------|
| Form                          | liquid                                    |
| Appearance                    | no data available                         |
| Odour                         | no data available                         |
| Odour Threshold               | no data available                         |
| Boiling point / boiling range | °C no data available °F no data available |
| Melting point / melting range | °C no data available °F no data available |
| flash point                   | °C no data available °F no data available |
| Autoignition temperature      | °C no data available °F no data available |
| Evaporation rate              | no data available                         |
| Flammability (solid, gas)     | no data available                         |
| Oxidising properties          | no data available                         |
| Water solubility              | no data available                         |
| Upper explosion limit         | no data available                         |
| Lower explosion limit         | no data available                         |
| Partition coefficient:        |                                           |
| n-octanol/water               | no data available                         |
| Vapour Pressure               | no data available                         |
| vapour density                | no data available                         |
| Viscosity                     | no data available                         |
| pH value                      | 7.0                                       |

**10. Stability and Reactivity**

|                                           |                                                             |
|-------------------------------------------|-------------------------------------------------------------|
| <b>Stability</b>                          | Stable under normal conditions.                             |
| <b>Materials to avoid</b>                 | No dangerous reaction known under conditions of normal use. |
| <b>Possibility of hazardous reactions</b> | Hazardous reaction has not been reported                    |
| <b>Hazardous decomposition products</b>   | None under normal use conditions.                           |
| <b>Polymerisation</b>                     | Hazardous polymerisation does not occur.                    |
| <b>Conditions to avoid</b>                | None under normal processing.                               |

**11. Toxicological Information****Acute toxicity**

At this time, the limited evidence available suggests caution when potential exposures to nanoparticles may occur. Due to the limited information about health risks from nanomaterials, it is prudent to take steps for minimizing worker exposures. Occupational health risks associated with manufacturing and using nanomaterials are not yet clearly understood. Studies have indicated that low solubility nanoparticles are more toxic than larger particles on a mass for mass basis. There are strong indications that particle surface area and surface chemistry are responsible for observed responses in cell cultures and animals. There are indications that nanoparticles can penetrate through the skin or move from the respiratory system to other organs.

**Principle Routes of Exposure/****Potential Health effects**

|                              |                                                         |
|------------------------------|---------------------------------------------------------|
| <b>Eyes</b>                  | May cause eye irritation with susceptible persons.      |
| <b>Skin</b>                  | May cause skin irritation in susceptible persons.       |
| <b>Inhalation</b>            | May be harmful by inhalation.                           |
| <b>INGESTION</b>             | May be harmful if swallowed. Carcinogenic effects None. |
| <b>Mutagenic effects</b>     | None.                                                   |
| <b>Reproductive toxicity</b> | None.                                                   |
| <b>Sensitisation</b>         | None.                                                   |

**12. Ecological Information**

|                        |                                                                                                                    |
|------------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>Ecotoxicity</b>     | Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants. |
| <b>Mobility</b>        | No information available.                                                                                          |
| <b>Biodegradation</b>  | Inherently biodegradable.                                                                                          |
| <b>Bioaccumulation</b> | Material does not bioaccumulate.                                                                                   |

**13. Disposal Considerations**

Dispose of contents/containers in accordance with local regulations.

**14. Transportation Information**

|                             |                                                                      |
|-----------------------------|----------------------------------------------------------------------|
| <b>IATA</b>                 |                                                                      |
| <b>Proper Shipping Name</b> | Not classified as dangerous in the meaning of transport regulations. |
| <b>Hazard Class</b>         | None                                                                 |
| <b>Subsidiary class</b>     | None                                                                 |
| <b>Packing group</b>        | None                                                                 |
| <b>UN-No</b>                | None                                                                 |

**15. Other Information**

Use as laboratory reagent. Scientific research and development.

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS MSDS DOES NOT CONSTITUTE A WARRENTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE"

**End of Material Safety Data Sheet**