1. Product and Company Identification

Identification of the product

Product code: BDT545MOU

Product name: Bright-Dtech™ 545-Tb (Green) coupled to Anti-Mouse 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

Skin contact	Rinse cautiously with water for several minutes. Immediate medical attention is not required.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
INGESTION	Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.
Inhalation	Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Not applicable

Notes to Physician	Treat symptomatically

5. Fire-Fighting Measures

Suitable extinguishing media	Water spray. Carbon dioxide (CO_2). Foam. Dry chemical.
Special protective equipment for firefighters	Standard procedure for chemical fires.
Specific hazards arising from the chemical	Not known

6. Accidental Release Measures

Personal precautions	Always wear recommended Personal Protective Equipment. Use personal protection equipment.
Methods for cleaning up	Soak up with inert absorbent material.

Environmental precautions

No special environmental precautions required.

7. Handling and Storage

Handling	Always wear recommended Personal Protective Equipment. Wear personal protective equipment.
Storage	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

Engineering measures	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.

Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Hand Protection	Impervious gloves.
Eye protection	Safety glasses with side-shields.
Skin and body protection	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

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

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. Carcinogenic effects None.
Mutagenic effects	None.
Reproductive toxicity	None.
Sensitisation	None.

12. Ecological Information

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

13. Disposal Considerations

Dispose of contents/containers in accordance with local regulations.

14. Transportation Information

IATA

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