SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation of the mixture: TMB substrate

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

Identified uses: Substrate in listed products.

Uses advised against: Use in accordance with supplier’s recommendations.

1.3. Details of the supplier of the safety data sheet

Corporate Headquarters: BioMedica Diagnostics Inc.
94 Wentworth Road, PO Box 1030
Windsor, Nova Scotia  CANADA  B0N 2T0

Contact person: Corporate Phone: 1-902-798-5105
Corporate Fax: 1-902-798-1025
Email: info@biomedicadiagnostics.com
Website: www.biomedicadiagnostics.com

1.4. Emergency telephone number

US, Canada, Puerto Rico & Virgin Islands 1-800-255-3924
International +1-813-248-0585
Australia 1-300-954-583
Brazil 0-800-591-6042
China 400-120-0751
India 000-800-100-4086
Mexico 01-800-099-0731

Contract number: MIS9591327

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

This preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

Hazard summary

- Physical hazards: Not classified for physical hazards.
- Health hazards: Not classified for health hazards.
- Environmental hazards: Not classified for hazards to the environment.
- Specific hazards: Avoid contact with eyes and skin. Do not ingest or inhale.
- Main symptoms: Direct contact with skin and eyes may cause irritation.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

- Hazard pictograms: None.
- Signal word: None.
- Hazard statements: None.
Precautionary statements

Prevention: Observe good laboratory hygiene practices.
Response: Wash with plenty of water.
Storage: Store away from incompatible materials.
Disposal: Dispose of waste and residues in accordance with local authority requirements.

Supplemental label information: None.

SECTION 3: Composition/information on ingredients

3.2. Mixtures
The components are not hazardous or are below required disclosure limits.

SECTION 4: First aid measures

4.1. Description of first aid measures
   Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.
   Skin contact: Wash with plenty of soap and water. Remove contaminated clothing. Get medical attention if irritation develops and persists.
   Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.
   Ingestion: Rinse mouth thoroughly. Get medical attention if symptoms occur.

4.2. Most important symptoms and effects, both acute and delayed
   Direct contact with skin and eyes may cause irritation.

4.3. Indication of any immediate medical attention and special treatment needed
   Provide general supportive measures and treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media
   Suitable extinguishing media: Extinguish with water spray, carbon dioxide, dry chemical or material appropriate for the surrounding fire.
   Unsuitable extinguishing media: None known.

5.2. Special hazards arising from the substance or mixture
   During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters
   Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
   Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
   For non-emergency personnel: Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up.
   For emergency responders: Use personal protection as recommended in section 8 of the SDS.

6.2. Environmental precautions
   Do not allow to enter drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up
   Absorb spill with vermiculite or other inert material.

6.4. Reference to other sections
   For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
   Avoid inhalation and contact with skin and eyes. Wash thoroughly after handling. Handle and open container with care. Observe good industrial hygiene practices.
7.2. Conditions for safe storage, including any incompatibilities
Store in a closed container away from incompatible materials. Store at 2-8°C (35-46°F).

7.3. Specific end use(s)
Substrate in listed products.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
- **Occupational exposure limits**: No exposure limits noted for ingredient(s).
- **Biological limit values**: No biological exposure limits noted for the ingredient(s).
- **Recommended monitoring procedures**: Follow standard monitoring procedures.
- **Derived no-effect level (DNEL)**: Not available.
- **Predicted no effect concentrations (PNECs)**: Not available.

8.2. Exposure controls
Provide adequate ventilation. Provide easy access to water supply and eye wash facilities.

### Individual protection measures, such as personal protective equipment

- **General information**: Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
- **Eye/face protection**: Wear approved safety glasses or goggles.
- **Skin protection**:
  - **Hand protection**: Wear appropriate chemical resistant gloves.
  - **Other**: Wear lab coat or other protective garments. Remove contaminated clothing promptly.
- **Respiratory protection**: Under normal conditions, respirator is not normally required.
- **Thermal hazards**: Wear appropriate thermal protective clothing, when necessary.

### Hygiene measures
Handle in accordance with good industrial hygiene and safety practices.

### Environmental exposure controls
Inform appropriate managerial or supervisory personnel of all environmental releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

### Appearance
- **Physical state**: Liquid.
- **Form**: Clear solution.
- **Colour**: Very pale amber.
- **Odour**: Not available.
- **Odour threshold**: Not available.
- **pH**: Not available.
- **Melting point/freezing point**: 0 °C (32 °F)
- **Initial boiling point and boiling range**: 100 °C (212 °F)
- **Flash point**: Non flammable.
- **Evaporation rate**: Not available.
- **Flammability (solid, gas)**: Not applicable.

### Upper/lower flammability or explosive limits
- **Flammability limit - lower (%)**: Not available.
- **Flammability limit - upper (%)**: Not available.

### Vapour pressure
Not available.

### Vapour density
Not available.

### Relative density
Not available.

### Solubility(ies)
Not available.

### Partition coefficient (n-octanol/water)
Not available.

### Auto-ignition temperature
Not available.
Decomposition temperature: Not available.
Viscosity: Not available.
Explosive properties: Not explosive.
Oxidizing properties: Not oxidizing.

9.2. Other information
No relevant additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity
Stable at normal conditions.

10.2. Chemical stability
Material is stable under normal conditions.

10.3. Possibility of hazardous reactions
Polymerization will not occur.

10.4. Conditions to avoid
Keep away from heat.

10.5. Incompatible materials

10.6. Hazardous decomposition products
Carbon oxides. Nitrogen oxides.

SECTION 11: Toxicological information

General information
Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation
Vapours may irritate throat and respiratory system and cause coughing.

Skin contact
May cause skin irritation.

Eye contact
May cause eye irritation.

Ingestion
May cause discomfort if swallowed.

Symptoms
Direct contact with skin and eyes may cause irritation.

11.1. Information on toxicological effects

Acute toxicity
May cause discomfort if swallowed.

Skin corrosion/irritation
May cause skin irritation.

Serious eye damage/eye irritation
May cause eye irritation.

Respiratory sensitisation
Not classified.

Skin sensitisation
Not classified.

Germ cell mutagenicity
Not classified.

Carcinogenicity
Not classifiable as to carcinogenicity to humans.

Reproductive toxicity
Not classified.

Specific target organ toxicity - single exposure
Not classified.

Specific target organ toxicity - repeated exposure
Not classified.

Aspiration hazard
Not classified.

Mixture versus substance information
Not available.

Other information
No other specific acute or chronic health impact noted.

SECTION 12: Ecological information

12.1. Toxicity
No toxicity data noted for the ingredient(s).

12.2. Persistence and degradability
No data available.

12.3. Bioaccumulative potential
No data available.

Partition coefficient
n-octanol/water (log Kow)
Not available.

Bioconcentration factor (BCF)
Not available.

12.4. Mobility in soil
Not available.

Mobility in general
The product is soluble in water.

12.5. Results of PBT and vPvB assessment
Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects
No data available.
SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste: Dispose in accordance with all applicable regulations.

Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal.

EU waste code: The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Disposal methods/information: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contaminated instruments and surfaces should be disinfected in accordance with your employer's chemical-specific and universal/standard precautions.

SECTION 14: Transport information

ADR: Not regulated as dangerous goods.

RID: Not regulated as dangerous goods.

ADN: Not regulated as dangerous goods.

IATA: Not regulated as dangerous goods.

IMDG: Not regulated as dangerous goods.

14.7. Transport in bulk: Not applicable.

according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

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

EU regulations

- Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended
  Not listed.
  Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended
  Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended
  Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended
  Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended
  Not listed.
  Not listed.
- Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA
  Not listed.

Authorisations

- Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended
  Not listed.

Restrictions on use

- Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended
  Not listed.
- Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended
  Not listed.
- Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding, as amended
  Not listed.
Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances
Not listed.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work
Not listed.

Directive 94/33/EC on the protection of young people at work
Not listed.

Other regulations
This product does not meet the criteria for classification according to Regulation (EC) 1272/2008 (CLP Regulation) and Directive 1999/45/EC and their amendments respectively. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006 as amended.

National regulations
Follow national regulation for work with chemical agents.

15.2. Chemical safety assessment
No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations
DSD: Directive 67/548/EEC.
DNEL: Derived No-Effect Level.
PNEC: Predicted No-Effect Concentration.

References
Not available.

Information on evaluation method leading to the classification of mixture
The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any statements or R-phrases and H-statements under Sections 2 to 15
None.

Training information
Follow training instructions when handling this material.

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