

Product Biotec Matt
 Revision date 15 August 2018
 Revision 2



Safety Data Sheet (SDS)

Section 1: Identification of the substance/preparation and of the company/undertaking

1.1 Product identifier

Product name Biotec Matt
Synonyms, Trade names No information available.

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

Identified uses Paint or paint related material. For industrial use.
Uses advised against No uses advised against are identified.

1.3 Details of the supplier of the safety data sheet

Supplier FSW Coatings Ltd
 Virginia
 Co Cavan
 Ireland
 Tel: 353 49854 7209
Contact person info@fsw.ie

1.4 Emergency telephone number

Emergency telephone + 353 49854 7209 (Between 0900 and 1700 hrs Monday-Friday)

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (EC 1272/2008)
 Physical and chemical hazards Not classified
 Human health Not classified
 Environment Not classified

2.2 Label elements

Contains Not applicable
Label in accordance with (EC) no. 1272/2008 No pictogram required
Signal word No Signal Word
Hazard statements No hazard statements required
Precautionary statements No precautionary statements required

2.3 Other hazards

None known.

Section 3: Composition/identification of ingredients

3.1 Substance

Not applicable.

3.2 Mixtures

| Name | Product identifier | Reg. EU 1272/2008 | % |
|---|--|---------------------|-----|
| Talc (Mg ₃ H ₂ (SiO ₃) ₄) | CAS-No.: 14807-96-6 EC No.: 238-877-9 | | <1% |
| titanium dioxide | CAS-No.: 13463-67-7 EC No.: 236-675-5 | | <1% |
| propane-1,2-diol | CAS-No.: 57-55-6 EC No.: 200-338-0 | | <1% |
| diiron trioxide | CAS-No.: 1309-37-1 EC No.: 215-168-2 | | <1% |
| 2-(2-butoxyethoxy)ethanol | CAS-No.: 112-34-5 EC No.: 203-961-6 | Eye Irrit.2A - H319 | <1% |

The full text for all hazard statements are displayed in section 16.

Composition comments

The data shown are in accordance with the latest EC Directives.

Section 4: First aid measures

4.1 Description of first aid measures

| | |
|----------------------------|---|
| General information | Provide general first aid, rest, warmth and fresh air. As a general rule, in case of doubt or if symptoms persist, always call a doctor. |
| Inhalation | Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort or breathing difficulties develop. |
| Ingestion | Rinse mouth out and then drink plenty of water. Seek medical attention. |
| Skin contact | Remove affected person from source of contamination. Wash exposed area with soap and water. Get medical attention if irritation develops or persists. |
| Eye contact | Remove contact lenses if present and easy to do so. Hold eye lids open. Rinse with a gentle stream water for at least 15 minutes. Seek medical attention. |

4.2 Most important symptoms and effects, both acute and delayed

| | |
|----------------------------|---|
| General information | The severity of the symptoms described will vary dependent on the concentration and the length of exposure. |
| Inhalation | No specific symptoms noted. |
| Ingestion | No specific symptoms noted. |
| Skin contact | No specific symptoms noted. |
| Eye contact | No specific symptoms noted. |

4.3 Indication of any immediate medical attention and special treatment needed

| | |
|-------------------------------|------------------------|
| Notes to the physician | Treat symptomatically. |
|-------------------------------|------------------------|

Section 5: Fire-fighting measures

5.1 Extinguishing media

| | |
|---------------------------------------|---|
| Extinguishing media | This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials. Water spray, foam, dry powder or carbon dioxide. |
| Unsuitable extinguishing media | None noted. |

5.2 Special hazards arising from the substance or mixture

| | |
|---|---|
| Hazardous combustion products | During fire, toxic gases (CO, CO ₂) are formed. |
| Unusual fire & explosion hazards | No unusual fire or explosion hazards noted. |
| Specific hazards | None noted. |

5.3 Advice for firefighters

| | |
|--|--|
| Special fire fighting procedures | Avoid breathing fire vapours. Keep up-wind to avoid fumes. Fight advanced or massive fires from safe distance or protected location. Ventilate closed spaces before entering them. Containers close to fire should be removed immediately or cooled with water if safe to do so. |
| Protective equipment for firefighters | Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. |

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

| | |
|---------------------------------|--|
| Personal precautions | Wear protective clothing as described in Section 8 of this safety data sheet. |
| For emergency responders | Follow safe handling advice and personal protective equipment recommendations for normal use of product. |

6.2 Environmental precautions

| | |
|----------------------------------|---|
| Environmental precautions | Avoid discharge in to drains and water courses. |
|----------------------------------|---|

6.3 Methods and material for containment and cleaning up

| | |
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| Spill clean up methods | Stop leak if possible without risk. Wear necessary protective equipment. Absorb spillage with non-combustible, absorbent material. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container. Wash thoroughly after dealing with a spillage. |
|-------------------------------|---|

6.4 Reference to other sections

| | |
|------------------------------------|--|
| Reference to other sections | See section 1 for emergency contact. For personal protection, see section 8. For waste disposal, see section 13. |
|------------------------------------|--|

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

| | |
|-----------------|--|
| Handling | Read and follow manufacturer's recommendations. Observe occupational exposure limits and minimise the risk of inhalation of vapours and mist. Do not eat, drink or smoke when using the product. Avoid spilling, skin and eye contact. Ensure adequate ventilation. Use proper personal protection when handling (refer to Section 8). |
|-----------------|--|

7.2 Conditions for safe storage, including any incompatibilities

| | |
|----------------------------|--|
| Storage precautions | Store in tightly closed original container in a cool, dry and well-ventilated place. Keep upright, locked up and out of reach of children. |
| Storage class | Unspecified storage. |

7.3 Specific end use(s)

| | |
|----------------------------|--|
| Specific end use(s) | The identified uses for this product are detailed in Section 1. |
| Usage description | Use only according to directions. Replace and tighten cap after use. |

Section 8: Exposure controls/Personal protection**8.1 Control parameters**

| Component | STD | TWA (8 Hrs) | | STEL (15mins) | | Notes |
|---------------------------|-----|-------------|------------------------|---------------|-------------------------|---|
| Talc (Mg3H2(SiO3)4) | OEL | | 10 mg/m ³ | | | Talc, total inhalable dust. |
| titanium dioxide | OEL | | 10 mg/m ³ | | | Titanium dioxide, total inhalable dust. |
| propane-1,2-diol | OEL | 150 ppm | 470 mg/m ³ | | | Propylene glycol total (vapour and particulates). |
| propane-1,2-diol | OEL | | 10 mg/m ³ | | | Propylene glycol particulates. |
| diiron trioxide | OEL | | 4 mg/m ³ | | | Rouge respirable dust. |
| 2-(2-butoxyethoxy)ethanol | OEL | 10 ppm | 67.5 mg/m ³ | 15 ppm | 101.2 mg/m ³ | |

| | |
|----------------------------|---|
| Ingredient comments | Ireland, Occupational Exposure Limits 2016. |
|----------------------------|---|

8.2 Exposure Controls**Protective equipment****Engineering measures
Respiratory equipment**

Observe occupational exposure limits and minimize the risk of inhalation of dust.
No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.

Hand protection

Use suitable protective gloves if there is a risk of skin contact. Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374) is recommended. Nitrile rubber. Break through time: >480 minutes. Layer thickness: 0.33 mm. Chloroprene. Break through time: >480 minutes. Layer thickness: > 0.6 mm. Consult manufacturer for specific advice.

Eye protection

Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU).

Other protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

Wash hands and / or face before breaks and at the end of the shift. Do not eat, drink, or smoke while using this product. Avoid contact with skin, eyes and clothing.

Process conditions

Use only according to directions. Ensure that eye flushing systems and safety showers are located close by in the work place.

Section 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

| | |
|--|---|
| Appearance | Viscous liquid. |
| Colour | White. Opaque. |
| Odour | Faint odour. |
| Odour threshold - lower | No information available. |
| Odour threshold - upper | No information available. |
| pH-Value, Conc. Solution | 7.5 - 9.0 |
| pH-Value, Diluted solution | No information available. |
| Melting point | May start to solidify at the temperatures below 2°C. This is based on data for the following ingredient: Water. |
| Initial boiling point and boiling range | No information available. |
| Flash point | Closed cup: Not applicable. (Product does not sustain combustion.) |
| Evaporation rate | No information available. |
| Flammability state | Non flammable. |
| Flammability limit - lower(%) | No information available. |
| Flammability limit - upper(%) | 0.00 |
| Vapour pressure | Highest known value: 3.2 kPa, (23.8 mm Hg, at 20°C, water). Weighted average: 3.12 kPa, (23.4 mm Hg, at 20°C). |
| Vapour density (air=1) | Highest known value: 7.5, (Air = 1, isobutyric acid, monoester with 2,2, 4-trimethylpentan-1,3-diol). |
| Relative density | 1.32g/cm ³ @ 20.00 °C |
| Bulk density | No information available. |
| Solubility | Partially soluble in cold water. |
| Decomposition temperature | Stable under normal handling and storage conditions. |
| Partition coefficient; n-Octanol/Water | No information available. |
| Auto ignition temperature (°C) | No information available. |

| | |
|-----------------------------|---|
| Viscosity | Kinematic (40°C): >0.21 cm ² /s. |
| Explosive properties | Not classified as explosive. |
| Oxidising properties | The product does not meet the criteria to be classified as oxidising. |

9.2 Other information

| | |
|----------------------------------|--------------------------------|
| Molecular weight | No information available. |
| Volatile organic compound | 10.00 g/litre |
| Other information | Volume Solids: 33.0% +/- 1.0%. |

Section 10: Stability and reactivity**10.1 Reactivity**

| | |
|-------------------|--|
| Reactivity | No specific reactivity hazards associated with this product. |
|-------------------|--|

10.2 Chemical stability

| | |
|------------------|---|
| Stability | Stable under normal temperature conditions and recommended use. |
|------------------|---|

10.3 Possibility of hazardous reactions

| | |
|-----------------------------------|--|
| Hazardous reactions | For information on hazardous reactions see section 10.1. |
| Hazardous polymerisation | Unknown. |
| Polymerisation description | Unknown. |

10.4 Conditions to Avoid

| | |
|----------------------------|--|
| Conditions to avoid | No specific conditions to avoid are noted. |
|----------------------------|--|

10.5 Incompatible materials

| | |
|---------------------------|---|
| Materials to avoid | Do not mix with other chemicals unless listed on directions. Avoid contact with oxidising substances and acids. |
|---------------------------|---|

10.6 Hazardous decomposition products

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|---|---|
| Hazardous decomposition products | In case of fire, toxic gases (CO, CO ₂ ,) may be formed. |
|---|---|

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

| | |
|---|---|
| Toxicological information | No toxicological information for the overall finished product. |
| Acute toxicity (Oral LD50) | 2-(2BUTOXYETHOXY)ETHANOL 2410 mg/kg Mouse. Propane-1,2-diol > 22000 mg/kg Rat. TITANIUM DIOXIDE > 5000 mg/kg Rat. |
| Acute toxicity (Dermal LD50) | 2-(2BUTOXYETHOXY)ETHANOL 2764 mg/kg Rabbit. Propane-1,2-diol > 20000 mg/kg Rabbit. |
| Acute toxicity (Inhalation LD50) | Propane-1,2-diol 317 mg/l (vapours) Rabbit. TITANIUM DIOXIDE 6.82 mg/l (vapours) 4 hours. |
| Serious eye damage/irritation | No information available. |
| Skin corrosion/irritation | No information available. |
| Respiratory sensitisation | No information available. |
| Skin sensitisation | No information available. |
| Germ cell mutagenicity | No information available. |
| Carcinogenicity | No information available. |

Specific target organ toxicity - Single exposure:

STOT - Single exposure No information available.

Specific target organ toxicity - Repeated exposure:

STOT - Repeated exposure No information available.

| | |
|-------------------------------|--|
| Inhalation | No specific symptoms noted. |
| Ingestion | No specific symptoms noted. |
| Skin contact | No specific symptoms noted. |
| Eye contact | No specific symptoms noted. |
| Waste management | When handling waste, consideration should be made to the safety precautions applying to handling of the product. |
| Routes of entry | No information available. |
| Target organs | No target organs specified. |
| Aspiration hazards: | No information available. |
| Reproductive toxicity: | No information available. |

Section 12: Ecological information

12.1 Toxicity

| | |
|---|---|
| Acute toxicity - Fish | 2-(2BUTOXYETHOXY)ETHANOL LC0 48 hours > 1000 mg/l Leuciscus idus (Golden orfe). Propane-1,2-diol LC50 96 hours 40613 mg/l. |
| Acute toxicity - Aquatic invertebrates | 2-(2BUTOXYETHOXY)ETHANOL EC50 48 hours > 100 mg/l Daphnia magna. |
| Acute toxicity - Aquatic plants | No information available. |
| Acute toxicity - Microorganisms | No information available. |
| Chronic toxicity - Fish | No information available. |
| Chronic toxicity - Aquatic invertebrates | No information available. |
| Chronic toxicity - Aquatic plants | No information available. |
| Chronic toxicity - Microorganisms | No information available. |
| Ecotoxicity | The product is not classified as environmentally hazardous. |
| Eco toxicological information | Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008. |

12.2 Persistence and degradability

| | |
|---------------------------------|---------------------------|
| Degradability | No information available. |
| Biological oxygen demand | No information available. |
| Chemical oxygen demand | No information available. |

12.3 Bioaccumulative potential

| | |
|---|---------------------------------------|
| Bioaccumulative potential | No data available on bioaccumulation. |
| Bioaccumulation factor | No information available. |
| Partition coefficient; n-Octanol/Water | No information available. |

12.4 Mobility in soil

| | |
|-----------------|---------------------------|
| Mobility | No information available. |
|-----------------|---------------------------|

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment The product does not contain any PBT or vPvB Substances.

12.6 Other adverse effects

| | |
|------------------------------|-------------|
| Other adverse effects | None known. |
|------------------------------|-------------|

Section 13: Disposal considerations

| | |
|-------------------------|---|
| Waste management | When handling waste, consideration should be made to the safety precautions applying to |
|-------------------------|---|

handling of the product.

13.1 Waste treatment methods

Disposal methods

Dispose of waste and residues in accordance with local authority requirements, and in accordance with all local, national and international regulations. For waste disposal, use a licensed industrial waste disposal agent.

Section 14: Transport information

14.1 UN number

| | |
|---------------|-----------------|
| UN no. (ADR) | Not applicable. |
| UN no. (IMDG) | Not applicable. |
| UN no. (IATA) | Not applicable. |

14.2 UN proper shipping name

| | |
|---------------------------|-----------------|
| ADR proper shipping name | Not applicable. |
| IMDG proper shipping name | Not applicable. |
| IATA proper shipping name | Not applicable. |

14.3 Transport hazard class(es)

| | |
|------------|-----------------|
| ADR class | Not applicable. |
| IMDG class | Not applicable. |
| IATA class | Not applicable. |

| | |
|------------------|----------------|
| Transport labels | Not applicable |
|------------------|----------------|

14.4 Packing group

| | |
|---------------------------|-----------------|
| ADR/RID/ADN packing group | Not applicable. |
| IMDG packing group | Not applicable. |
| IATA packing group | Not applicable. |

14.5 Environmental hazards

| | |
|------|----|
| ADR | No |
| IMDG | No |
| IATA | No |

14.6 Special precautions for user

| | |
|-------------------------|-----------------|
| EMS | Not applicable. |
| Emergency action code | Not applicable. |
| Hazard no. (ADR) | Not applicable. |
| Tunnel restriction code | Not applicable. |

14.7 Transport in bulk according to annex II of MARPOL73/78 and the IBC code

Section 15: Regulatory information

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

| | |
|-----------------------------------|--|
| EU legislation | Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. The UN Globally Harmonized System (GHS) Safety Data Sheet format (Annex IV) is implemented as Annex II of REACH EU No 453/2010 of 20th May 2010 amending regulation (EC) No 1907/2006. |
| Approved code of practice | 2016 Code of Practice for the Chemical Agents Regulations in accordance with section 60 of the Safety, Health and Welfare at Work Act 2005 (No. 10 of 2005). |
| Chemical safety assessment | No chemical safety assessment has been carried out. |

Section 16: Other information

| | |
|---------------------------------|--|
| General information | This Safety Data Sheet is in accordance with Reach Regulation (EC) No 453/2010. |
| Revision comments | This is a first issue. [1]Logo updated. [8]Code of practice updated. [9]Information updated. |
| Revision date | 15 August 2018 |
| Revision | 2 |
| Safety data sheet status | Approved. |

Hazard statements in full

H319 Causes serious eye irritation.

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.