Product Bio-Tec Matt

Revision date 04 November 2021

**Revision** 3



## **Safety Data Sheet (SDS)**

according to Regulation (EC) No. 1907/2006

## Section 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Product name Bio-Tec Matt

Other means of identification 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

**EUH statements** EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not

breathe spray or mist.

### 2.3 Other hazards

None known.

## Section 3: Composition/information on ingredients

#### 3.1 Substance

Not applicable.

#### 3.2 Mixtures

Name	Product identifier	Regulation (EC) No 1272/2008	%
titanium dioxide	CAS-No.: 13463-67-7 EC No.: 236-675-5		10-20%
Talc (Mg3H2(SiO3)4)	CAS-No.: 14807-96-6 EC No.: 238-877-9		1-5%
diiron trioxide	CAS-No.: 1309-37-1 EC No.: 215-168-2		0.1-0.9%
2-(2-butoxyethoxy)ethanol	CAS-No.: 112-34-5 EC No.: 203-961-6 REACH Reg No.: 01-2119475104-44-XXXX	Eye Irrit.2A - H319	0.1-0.9%
zinc oxide	CAS-No.: 1314-13-2 EC No.: 215-222-5 REACH Reg No.: 01-2119463881-32-0000	Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410	<0.1%
diuron (ISO) 3-(3,4-dichlorophenyl),1-dimethylurea	CAS-No.: 330-54-1 EC No.: 206-354-4	Acute Tox 4 - H302, Carc. 2 - H351, STOT RE 2 - H373, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410	<0.1%
formaldehyde 100%	CAS-No.: 50-00-0 EC No.: 200-001-8	Acute Tox 3 - H301, Acute Tox 2 - H310, Skin Corr. 1B - H314, Skin. Sens 1 - H317, Acute Tox 3 - H331, Muta. 2- H341, Carc. 1B - H350	<0.1%

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.

Formaldehyde: Specific Concentration Limits = Eye Irrit. 2; H319: 5 % <= C < 25 %, STOT SE 3; H335: C >= 5 %, Skin Corr. 1B; H314: C >= 25 %, Skin Irrit. 2; H315: 5 % <= C < 25

%, Skin Sens. 1; H317: C >= 0,2 %.

diuron (ISO) 3-(3,4-dichlorophenyl)-1,1-dimethylurea: M = 10.

Zinc oxide: M (acute and chronic) = 1.

### **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. As a general rule, in case of doubt or if symptoms persist, always call a doctor. NEVER induce swallowing in an unconscious person. Show this

safety data sheet or product label to medical personnel.

**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.

InhalationProlonged inhalation of fog or mist may be irritating to nose and throat.IngestionProlonged exposure to product may cause irritation to lining of the mouth.

**Skin contact** Prolonged contact may cause redness, irritation and dry skin.

**Eye contact** May cause temporary eye irritation.

## 4.3 Indication of any immediate medical attention and special treatment needed

Notes to the physician Treat symptomatically.

# **Section 5: Firefighting 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 High volume water jet.

#### 5.2 Special hazards arising from the substance or mixture

Hazardous combustion products Unusual fire & explosion hazards

Specific hazards

During fire, toxic gases (CO, CO2) are formed. No unusual fire or explosion hazards noted. Floors may become slippery, avoid falls.

#### 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. Fire-fighters should wear appropriate protective equipment and self-contained breathing

apparatus (SCBA) with a full face-piece operated in positive pressure mode.

#### Section 6: Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet. Read and follow For non-emergency personnel

manufacturer's recommendations.

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

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

Store in tightly closed original container in a cool, dry and well-ventilated place. Keep Storage precautions

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.

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# 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 <sup>3</sup>			
Talc (Mg3H2(SiO3)4)	OEL		0.8 mg/m <sup>3</sup>			
titanium dioxide	OEL		10 mg/m <sup>3</sup>			
titanium dioxide	OEL		4 mg/m <sup>3</sup>			
diiron trioxide	OEL		5 mg/m <sup>3</sup>		10 mg/m <sup>3</sup>	as Fe
diiron trioxide	OEL		10 mg/m <sup>3</sup>			
diiron trioxide	OEL		4 mg/m <sup>3</sup>			
2-(2-butoxyethoxy)ethanol	OEL	10 ppm	67.5 mg/m <sup>3</sup>	12 ppm	101.2 mg/m <sup>3</sup>	IOELV
zinc oxide	OEL		2 (R) mg/m <sup>3</sup>		10 mg/m <sup>3</sup>	
diuron (ISO) 3-(3,4-dichlorophenyl),1-dimethylurea	OEL		10 mg/m <sup>3</sup>			
formaldehyde 100%	OEL	0.3 ppm	0.37 mg/m <sup>3</sup>	0.6 ppm	0.738 mg/m <sup>3</sup>	BOELV, Carc 1B, Sens, Limit value 0.5ppm/0.62mg/m3 for the healthcare, funeral and embalming sectors until 11 July 202421.

**Ingredient comments** 

Ireland, Occupational Exposure Limits 2021.

## **8.2 Exposure Controls**

**Protective equipment** 



**Engineering measures** Provide adequate ventilation, including appropriate local extraction, to ensure that the

defined occupational exposure limit is not exceeded.

**Respiratory equipment** Where risk assessment shows air-purifying respirators are appropriate a full face respirator

conforming to EN143 should be used, and suitable respirator cartridges as a backup to engineering controls. Use type ABEK (EN 14387) respirator cartridges. Change filters

frequently. Consult manufacturer for specific advice.

**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 Protective clothing should be selected based on the task being performed and the risks

involved and should be approved by a specialist before handling this product. The selected  $% \left\{ \left( 1\right) \right\} =\left\{ \left($ 

clothing must satisfy the European norm standard EN 943.

**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

AppearanceViscous liquid.ColourWhite. Opaque.OdourFaint odour.

Odour threshold - lower No information available as testing has not been completed.

Odour threshold - upper No information available as testing has not been completed.

**pH-Value, Conc. Solution** 7.5 - 9.0

**pH-Value, Diluted solution** No information available as testing has not been completed.

Melting point Melting/freezing 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 Not applicable.

**Evaporation rate** Not applicable.

Flammability state Non flammable

Flammability limit - lower(%) No information available as testing has not been completed.

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** 1.28

**Bulk density**No information available as testing has not been completed.

**Solubility** Partially soluble in cold water.

**Decomposition temperature** Stable under normal handling and storage conditions

Partition coefficient; n-

Octanol/Water

No information available as testing has not been completed.

Auto ignition temperature (°C) Not applicable.

Viscosity Kinematic (40°C): >0.21 cm<sup>2</sup>/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 as testing has not been completed.

Volatile organic compound 10.00 g/litre

**Other information** Weight Solids: 47.0% +/- 1.0%

Volume solids: 32.0% +/- 1.0%

#### Section 10: Stability and reactivity

10.1 Reactivity

**Reactivity** Reactions may occur with strong oxidizing agents and acids.

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 polymerisationUnknown.Polymerisation descriptionUnknown.

10.4 Conditions to Avoid

**Conditions to avoid** Avoid exposure to high temperatures or direct sunlight. Avoid heat, flames and other sources

of ignition.

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

Hazardous decomposition products In case of fire, toxic gases (CO, CO2,) may be formed.

## **Section 11: Toxicological information**

#### 11.1 Information on hazard classses as defined in Regulation (EC) No. 1272/2008

**Toxicological information** No toxicological information for the overall finished product.

Acute toxicity (Oral LD50)

Acute toxicity (Dermal LD50)

Acute toxicity (Inhalation LD50)

No information available as testing has not been completed.

No information available as testing has not been completed.

No information available as testing has not been completed.

**Serious eye damage/irritation** May cause temporary eye irritation.

**Skin corrosion/irritation** The product is not classified as a skin corrosion/irritation hazard.

**Respiratory sensitisation**The product is not classified as a respiratory hazard. **Skin sensitisation**The product is not classified as a skin sensitisation hazard.

**Germ cell mutagenicity** The product is not classified as a mutagen.

**Carcinogenicity** The product is not classified as a carcinogen hazard.

Specific target organ toxicity - Single exposure:

**STOT - Single exposure** The product is not classified as a single exposure specific target organ toxin.

Specific target organ toxicity - Repeated exposure:

**STOT - Repeated exposure**The product is not classified as a repeat exposure specific target organ toxin.

InhalationProlonged inhalation of fog or mist may be irritating to nose and throat.IngestionProlonged exposure to product may cause irritation to lining of the mouth.

**Skin contact** Prolonged contact may cause redness, irritation and dry skin.

**Eye contact** May cause temporary eye irritation.

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

handling of the product.

**Routes of entry** Eyes, skin, ingestion or inhalation.

**Target organs** Eyes, skin, digestive system, respiratory system.

**Aspiration hazards:** The product is not classified as an aspiration hazard. **Reproductive toxicity:** The product is not classified as a reproductive hazard.

Name	LD50 oral	LD50 dermal	LD50 inhalation
formaldehyde 100%	>200.00mg/kg Rat >200.00mg/kg Rat		
2-(2-butoxyethoxy)ethanol	3305.00mg/kg Rat	2764.00mg/kg Rabbit	

## 11.2 Information on other hazards

**Information on other hazards** None known.

### **Section 12: Ecological information**

### 12.1 Toxicity

Acute toxicity - Fish

Acute toxicity - Aquatic invertebrates

No information available as testing has not been completed.

Acute toxicity - Aquatic plants

Acute toxicity - Microorganisms

Chronic toxicity - Fish

Chronic toxicity - Aquatic

No information available as testing has not been completed.

No information available as testing has not been completed.

No information available as testing has not been completed.

No information available as testing has not been completed.

No information available as testing has not been completed.

invertebrates

**Chronic toxicity - Aquatic plants**No information available as testing has not been completed.
No information available as testing has not been completed.

Chronic toxicity - Microorganisms
Ecotoxicity

No information available as testing has not been completed. The product is not classified as environmentally hazardous. However, this does not exclude

the possibility that large or frequent spills can have a harmful or damaging effect on the  $\dot{}$ 

environment.

Eco toxilogical information Not classified as dangerous for the environment according to the criteria of Regulation (EC)

No 1272/2008.

#### 12.2 Persistence and degradability

DegradabilityThe degradability of the product has not been stated.Biological oxygen demandNo information available as testing has not been completed.Chemical oxygen demandNo information available as testing has not been completed.

### 12.3 Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Bioaccumulation factor No information available as testing has not been completed.

Partition coefficient; n-

Octanol/Water

No information available as testing has not been completed.

#### 12.4 Mobility in soil

**Mobility** Partially soluble in cold water.

#### 12.5 Results of PBT and vPvB assessment

 $\textbf{Results of PBT and vPvB assessment} \ \ \textbf{The product does not contain any PBT or vPvB Substances}.$ 

## 12.6 Endocrine disrupting properties

**Endocrine disrupting properties** The product does not contain any substances with endocrine disrupting properties at a

concentration above or equal to 0.1%.

### 12.7 Other adverse effects

Other adverse effects None known.

Name	IACIITA TOVICITY ( FISH )	J \ 1	Acute toxicity (Aquatic plants)
titanium dioxide		EC50 48 Hours >1000.00mg/l Daphnia magna	
2-(2-butoxyethoxy)ethanol	J.	EC50 48 Hours >100.00mg/l Daphnia magna	
diuron (ISO) 3-(3,4-dichlorophenyl),1-dimethylurea	Unchorhynchiis mykiss (Rainbow	EC50 48 Hours 1.40mg/l Daphnia magna	EC50 72 Hours 0.02mg/l Scenedesmus Subspicatus
zinc oxide	Onchornynchus mykiss (Rainbow	EC50 48 Hours 0.17mg/l Daphnia magna	

## **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 or ID number

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

## 14.2 UN proper shipping name

ADR proper shipping name
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

IMDG packing group

IATA packing group

Not applicable.

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 Maritime transport in bulk according to IMO instruments

Not applicable.

### **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 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals

(REACH).

**Approved code of practice** 2021 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents)

Regulations (2001-2021) and the Safety, Health and Welfare at Work (Carcinogens)

Regulations (2001-2019)

### 15.2 Chemical safety assessment

**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 Annex II, (EC) No 2020/878.

Revision comments [1]Information updated. [2]Information updated. [3]Information updated. [4]Information

updated. [5]Information updated. [6]Information updated. [8]Information updated.

[9]Information updated. [10]Information updated. [11]Information updated. [12]Information

updated. [15]Information updated. This is a third issue.

**Revision date** 04 November 2021 **Supersedes date** 15 August 2018

**Revision** 3

Safety data sheet status Approved.

### **Hazard statements in full**

H319 Causes serious eye irritation.

**H315** Causes skin irritation.

**H412** Harmful to aquatic life with long lasting effects.

H317 May cause an allergic skin reaction.H314 Causes severe skin burns and eye damage.

**H400** Very toxic to aquatic life.

**H410** Very toxic to aquatic life with long lasting effects.

H302Harmful if swallowed.H318Causes serious eye damage.H272May intensify fire; oxidiser.H351Suspected of causing cancer .

H373 May cause damage to organs through prolonged or repeated exposure.

H301 Toxic if swallowed.H311 Toxic in contact with skin.

**H331** Toxic if inhaled.

 ${\bf H341} \hspace{1.5in} {\bf Suspected \ of \ causing \ genetic \ defects} \ .$ 

 $\begin{array}{cc} \textbf{H350} & \text{May cause cancer} \, . \\ \textbf{H310} & \text{Fatal in contact with skin.} \end{array}$ 

**H330** Fatal if inhaled.

**EUH211** Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray

or mist.

#### 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.