

# 1- Product and Company Identification

## 1.1 Product identification:

Trade name	Zetamix Epsilon
Chemical name	Zetamix TiO2

**1.2 Identified use:** 3d printing filament.

**1.3 Manufacturer/Supplier :** Nanoe

6 rues des frênes 91160 Ballainvilliers

France

+ 33 9 81 98 33 64

**1.4 Emergency number:** + 33 1 45 42 59 59 (24/24h)

#### 2- Hazards identification

# 2.1 Classification:

Regulation CLP EC 1272/2008:

Skin Sensitization, Category 1A; H317: May cause skin allergy

#### 2.2 Label elements:

Labelling according to Regulation (EC) No 1272/2008 [CLP]:



Hazard symbol:

Hazard statement: H317 May cause skin allergy

Precautionary statements:

P261: Avoid breathing dust/fumes/gas/mists/vapors/aerosols.

P280: Wear protective gloves

P333 + P364: If irritation or rash occurs: get medical attention

Hazardous components that must be listed on the label:

CAS # 108-31-6 Maleic anhydride

#### 2.3 Other hazards:

Make sure the room is well ventilated when printing the filament.

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# 3- Composition/Data on components

#### 3.1 Composition

CAS N°	EC N°	Substances	Classification 1272/2008	%
1317-80-2	215-282-2	TiO2	Not classified	40 - 90
-	-	Polyolefin	Not classified	4 - 35
-	-	Thermoplastic elastomer	Classified	2 - 25

#### 3.2 Mixing

Thermoplastic elastomer contains maleic anhydride < 0.02%.

CAS NUMBER 108-31-6

H302: Harmful if swallowed

H314: Causes severe skin burns and eye damage

H317: May cause skin allergy

H318: Causes serious eye damage

H334: May cause allergic or asthmatic symptoms or breathing difficulties by inhalation

H372: Known to cause serious respiratory effects through repeated or prolonged exposure

#### 4- First aid measures

# 4.1 Description of first aid measures :

Inhalation	Ensure good fresh air circulation.		
	If necessary, provide artificial respiration.		
	Call a doctor if any symptoms develop.		
Skin contact	In case of irritation or rash: consult a doctor		
Ingestion	Unlikely. Seek medical attention if swallowed		
Eye contact	Rinse thoroughly and thoroughly with an eyewash station or water. Call		
	a doctor if irritation occurs.		

#### 4.2 Principal symptoms:

Inhaling smoke can cause irritation of the nose May cause skin allergy

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

Treat symptomatically

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# 5- Firefighting measures

## 5.1 <u>suitable extinguishing agents</u>:

The product is compatible with all means of firefighting.

## 5.2 special hazards arising from the substance or mixture :

No specific risk of fire or explosion.

#### 5.3 Advice for firefighters:

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No attempt shall be taken involving any personal risk or without suitable training. Firefighters should wear proper protective equipment.

#### 6- Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures:

Avoid inhaling the gases produced when printing the filament. Provide adequate ventilation.

#### **6.2 Environmental precautions:**

Avoid dispersion of spilled material and runoff and contact with soil, watercourses, drains and sewers.

#### 6.3 Methods and materials for containment and cleaning up:

The waste must be disposed of in accordance with the regulations in force.

#### 6.4 Reference to other sections:

See section 1 for emergency contact details

See section 8 for all information on suitable personal protective equipment

See section 13 for additional information on waste treatment.

#### 7- Handling and storage

# 7.1 Precautions for safe handling:

Avoid breathing fumes when printing. Use in a well ventilated area.

Staffs are recommended to wash their hands and face before eating, drinking or smoking

#### 7.2 Conditions for safe storage, including any incompatibilities:

Store in accordance with local regulation.

#### 7.3 Specific end use (s):

Apart from the uses mentioned in section 1.2, there are no other recommended uses.

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# 8- Exposure controls and personal protection

#### 8.1 Control parameters:

CAS N.	Componant	Туре	Value	Base
100 21 6	Maleic	VLCT	1 mg/m <sup>3</sup>	Valeurs limites d'exposition professionnelle aux agents
108-31-6	anhydride	(VLE)		chimiques en France

#### **8.2 Exposure control:**

Appropriate engineering controls

Handle according to good industrial hygiene and safety practices. Use of local exhaust and / or good general ventilation should be sufficient. Wash hands before each cut and at the end of the work day.

#### **Individual protection measures**







## Personal protective equipment

# **Eye/Face protection**

Safety glasses with side-shields conforming to EN166

#### **Skin protection**

Minimize contact with the skin. When material is heated, wear gloves to protect against burns.

#### **Body protection**

No special protective clothing is required.

# **Respiratory protection**

Use suitable breathing equipment (FFP2 masks)

#### 9- Properties of the product

Physical of the product	Filament
Colour	White
Odour	Odourless
Evaporation rate	Not applicable
Theoretical density	4.2 g·cm-3
Water solubility	Insoluble

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# 10- Stability and reactivity

#### 10.1 Reactivity

Stable under normal conditions of use

# 10.2 Chemical stability

Stable.

## 10.3 Possibility of hazardous reactions

During printing, sanding and finishing off gases and dust may form and may cause irritation to the eyes, throat and respiratory tract.

#### 10.4 Conditions to avoid

Avoid heating above the maximum recommended temperature.

# 10.5 Incompatible materials

None known

# 10.6 Hazardous decomposition products

Under normal condition of storage and use, no hazardous decomposition products.

#### 11- Toxicological information

Acute toxicity	Not toxicity
Inhalation	Irritating
Dermal	Not irritating
Skin corrosion/irritation	May cause skin allergy
Germ cell mutagenicity	No mutagenic effect
Carcinogenic	Non carcinogenic
Reproductive toxicity	Unclassified

#### 12- Ecological information

Toxicity	Unknown
Persistence and degradability	Data not available
Bio accumulation potentiel	Not applicable, the substance is not classified
Mobility in soil	Data not available
Results of PBT and vPvB assessment	Not required
Other adverse effects	No known danger

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#### 13- Disposal considerations

#### Waste treatment methods

**<u>Product</u>**: Dispose of surplus and non-recyclable products at an approved disposal company.

**Contaminated packaging**: Throw it away as unused product.

#### 14- Transport information

DOT (US)/IMDG/IATA/ADR/RID: non-dangerous goods.

# 15- Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

According to the CLP regulation EC 1272/2008, the constituent substances are not classified as dangerous.

# 15.2 Chemical safety assessment

This product contains substances which require a chemical risk assessment

#### 16- Other information

Full text of the H declarations cited in Articles 2 and 3. Not applicable

#### **Further information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text. Nanoe shall not be held liable for any damage resulting from handling or from contact with the above product.

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