

In accordance with Regulation (EU) No 1907/2006 (REACH), Regulation (EC) No 1272/2008 (CLP)

## Basalt and epoxy composite reinforcing thread

### Section 1 Chemical production identification and producer/supplier data

#### Product identifier:

Product name	Basalt and epoxy composite reinforcing thread
Chemical name of the substance number	N/A
REACH number	N/A
Index	N/A
CAS number	N/A

#### Recommended and not recommended applications of the substance or the blend

Applications	Used as a reinforcing filler in additive manufacturing of products from composite materials – reinforced thermoplastic polymers.
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#### Safety data sheet and supplier data

Company	Anisoprint, OOO
Address	Russia, 143026, Moscow, Skolkovo Innovation Centre, Bolshoy blvd 42, bld 1
Contact name	Specify
Tel/fax	+7 (495) 142-57-31
Email	info@anisoprint.com

#### Emergency telephone Number

In Russia: 112  
Outside Russia: national hotlines

### Section 2 Hazards Identification

#### Classification of the substance or blend

Classification according to EU regulation N° 1272/2008 (CLP)	The product is not hazardous according to the EU regulation N° 1272/2008 (CLP).
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Additional information	None.
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#### Label elements

Hazard symbols	Not applicable
Signal word	Not applicable

<b>Hazard statement (R-phrases)</b>	Not applicable
<b>Precautionary statement (S-phrases)</b>	Safe handling (prevention):  P201: Get through an instruction before work with the product.  P271: Use only outdoors or in a well-ventilated room.
<b>Other hazards according to the EU classification (EUH)</b>	None

## Other hazards

No hazardous effects on human health are expected under normal handling conditions. Can cause thermal injury of skin and eyes when in the fused state. Thermal degradation products can irritate conjunctiva and nasopharyngeal mucosa during the material processing.

The material is water-insoluble, nonreactive, remains stable within a long period of time. No hazardous effects on the environment are expected.

The substance does not meet the criteria of persistent bioaccumulative toxins (PBT-substances) and very persistent and very bioaccumulative toxins (vPvB-substances).

## Section 3 Composition (information on components)

### Materials

Not applicable

Component name	Component identifier	Classification according to EU regulation N° 1272/2008 (CLP)	Mass content, %
Basalt fiber [Glass oxide, chemical compounds]	Index: - REACH: - EC: 266-046-0 CAS: 65997-17-3	Not classified	65.0-75.0
Poly(oxy-1,2 ethanediylloxycarbon-yl-1,4-phenylenecarbonyl)	Index: - REACH: - EC: 607-507-1 CAS: 25038-59-9	Not classified	25.0-35.0

## Section 4 First aid measures

### Description of first aid measures

<b>In case of inhalation</b>	Throat irritation, sore throat, cough, chest tightness, change of breathing rhythm.
<b>Skin contact</b>	Unknown.

Eye contact Unknown.  
If swallowed Unknown.

Special treatment None

## Section 5 Measures and precautions of fire-explosion safety

### Fire-extinguishing means

Suitable extinguishing media Diffused water, foam, powder, carbon dioxide.  
Not suitable extinguishing media Solid water jet.

### Specific risk factors caused by the substance or the blend

Hazards posed by the substance or blend Ignitable solid material.

Hazardous combustion products Carbon oxides, acetaldehyde, terephthalic acid, dimethyl terephthalate, organic acids.

### Advice for firefighters

Special precautions for fire-fighters In case of fire free the area and remove all the nearby people. In case of fire: cool the containers etc. by diffusing water. Extinguish the fire from a safe distance or a protected spot. All the materials remaining after a fire and contaminated water should be disposed according to local regulations.

Special protective equipment for fire-fighters In case of fire use a self contained breathing apparatus (SCBA) and a protective suit meeting standard EN 469.

## Section 6 Preventing measures and mitigation of emergencies and their consequences

### Safety precautions for personnel, protective equipment and emergency measures

For personnel not involved in emergency response

Personal protective equipment Use the protective equipment stated in Section 8.

Precautionary measures There are no special precautionary measures, no hazardous substances are released. Provide the needed ventilation. Take fire precautions. Eliminate sources of fire and sparks. No smoking.

For emergency teams Enter the dangerous area in personal protective equipment (see Section 8).

## Preventive measures for environmental protection

### Environmental alerts

Do not allow to get into sewage, groundwater. Inform the relevant organizations in case of harm for the environment.

## Methods and materials for localization and purification

### Localization methods

Stop the leakage in case there is no risk.

### Purification methods

Collect the material with a brush, a vacuum cleaner, carefully sweep, or place in hermetic containers with a shovel for later disposal.

## References to other sections

See Section 8 for allowed concentrations of harmful substances and personal protection. See Section 13 for disposal, neutralization and recycling.

## Section 7 Handling, transportation and storage.

### Precautions for safe handling

#### Precautionary measures

Get through an instruction before work with the product. Use impermeable equipment and containers for production, storage and transporting. Use local and general exhaust ventilation and respiratory protective equipment in case of risk of inhaling the vapor. Avoid inhaling the vapors from the fused material. Eliminate sources of fire and sparks. Take electrostatic safety precautions. Use explosion-proof equipment, tools, and light. All the equipment used for the product need to be grounded.

#### Labor health advise

Keep away from food, drinks, and pet food. Do not eat, drink or smoke during the work. Wash your hands before breaks and at the end of the day.

### Safe storage conditions considering any inconsistencies.

#### Recommendations for storage

Keep in dry ventilated room under 35°C and humidity 75 %, keep away from light, in conditions excluding exposure to direct sunlight, moisture, away from sources of heat and fire.

#### Suitable package materials

No special requirements.

### Specific end use

#### Recommendations

see Section 1.2

## Section 8 Hazardous effects control equipment and personal protective equipment

### Control parameters

#### Components with professional action limits

Components with professional action limits are not present Control the working area air according to the following parameters:

Country	Average concentration along time		Short term exposure limit		Source
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
<b>Name of substance: glass fibers CAS number: -</b>					
Australia		2 (1) (2)			NOHSC:1008,1003
Belgium		10			AR - LOI - WET
Hungary		1 fiber/cm <sup>3</sup>			25/2000. (IX. 30.)
Denmark		1 fiber/cm <sup>3</sup>		2 fibers/cm <sup>3</sup>	
Ireland		1 fiber/ml			CoP 2011
Canada (Quebec)		2 fibers/cm <sup>3</sup> 1 fiber/cm <sup>3</sup> (1) 10 mg/m <sup>3</sup>			
Canada (Ontario)		1 fiber/cm <sup>3</sup> (1)			R.R.O.1990, Reg. 833
Russia		2 (1)		6 (1)	ГН 2.2.5.3532-18
Singapore		10 (1)			
France		1 fiber/cm <sup>3</sup>			
Switzerland		0.5 fiber/cm <sup>3</sup>			SUVA
Swissland		1 fiber/cm <sup>3</sup>			
Japan (JSOH)		1 fiber/cm <sup>3</sup> (1)			

#### Notes:

##### Australia

(1) inhaled dust (2) glasslike (silicate) randomly oriented synthetic fibers containing basic oxides and earth alkali oxides (Na<sub>2</sub>O+K<sub>2</sub>O+-CaO+MgO+BaO) with a total weight above 18%

Canada (Quebec)	(1) microfiber (2) continuous fiber, general dust
Canada (Ontario)	(1) inhaled fibers longer than 5 mcm, with sides a ratio 3:1 set on a membrane filter with an amplification of 400-450 times on a phase-contrast microscope
Russia	(1) aerosols of predominantly fibrogenic action.
Singapore	(1) fiberglass dust
Japan (JSOH)	(1) fibers longer than 5 mcm, with a sides ratio 3:1 set on a membrane filter with an amplification of 400 times on a phase-contrast microscope

Country	Average concentration along time		Short term exposure limit		Source
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	

**Name of substance: Poly(oxy-1,2-ethandyloxycarbonyl-1,4-phenylenecarbonyl)**  
**CAS number: 25038-59-9**

Latvia		5			
Russia				5	ГН 2.2.5.3532-18

<b>Biological limits of exposure</b>	Not established.
<b>Derived no-effect level (DNEL)</b>	Not established.
<b>Predicted no effect concentration (PNEC)</b>	Not established.

## Exposure control

<b>Appropriate engineering controls</b>	Provide required ventilation. Possibly required to monitor personnel work, workplace conditions, or the biological state of the environment to assess the ventilation effectiveness or other technical controls and/or the need for respiratory protection equipment. Personal protective equipment should be used only if a worker's exposure limits cannot be adequately controlled by engineering control methods.
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## Personal protective equipment

<b>Face and eyes protection</b>	Closed safety glasses with side shields (EN 166).
<b>Hand protection</b>	Safety gloves (EN 374).

<b>Skin and body protection</b>	Working clothes with long sleeves, apron, safety shoes.
<b>Respiratory protection</b>	In case of insufficient ventilation within the maximum permissible concentrations: half-masks (EN 140) equipped with gas masks and combined AX filters (EN 371). When exceeding the maximum permissible concentrations and when volatile products of thermo-oxidative destruction are released into the air: self-contained breathing apparatus (EN 137).
<b>Environmental impact control</b>	Strict compliance with technical regulations, sealing of equipment and communications, elimination of emergency situations, elimination of leaks and prevention of spills. Organize the control of components with occupational exposure limits. Dispose in accordance with local regulations. Inform the appropriate organizations in case of a leakage into the atmosphere or soil, water supply, drainage and sewage systems.

## Section 9 Physical and chemical profile

### Information about basic physical and chemical properties

<b>Aggregative state</b>	Solid
<b>Physical form</b>	Round thread
<b>Color</b>	No data
<b>Smell</b>	Without smell
<b>Odor threshold</b>	Not applicable
<b>pH</b>	Not applicable
<b>Melting/freezing point</b>	Not applicable
<b>Initial boiling point and range</b>	Not applicable
<b>Flash temperature</b>	Not applicable
<b>Evaporation rate</b>	Not applicable
<b>Fire behavior (for a solid and gas state)</b>	Ignitable solid material.
<b>Upper and lower flammability or explosibility limits</b>	No data
<b>Vapor pressure</b>	Not applicable
<b>Vapor density</b>	Not applicable
<b>Density</b>	No data
<b>Solvability</b>	Water: insoluble
<b>N-octanol-water partition coefficient</b>	No data
<b>Spontaneous ignition temperature</b>	No data
<b>Decomposition point</b>	No data
<b>Viscosity</b>	Not applicable
<b>Explosiveness properties</b>	None
<b>Oxidizing properties</b>	None
<b>Other information</b>	N/A

## Section 10 Stability and reactivity data

### Reactivity

No relevant information.

### Chemical stability

The product is stable at normal ambient temperature and handling conditions.

### Possibility of hazardous reactions

No dangerous reactions if stored and used properly. When heated during processing, volatile products of thermo-oxidative degradation may be released into the air.

### Conditions to avoid

Excessive heating; exposure to open fire; wetting; exposure to light.

### Incompatible materials

Strong oxidizing agents, acids, alkalis.

### Hazardous decomposition products

Hazardous decomposition products are unknown. In case of ignition see Section 5

## Section 11 Toxicological information

### Toxic effects data

#### Acute toxicity

No reliable indicators of acute toxicity, the criteria for acute toxicity classification according to Regulation (EU) No. 1272/2008 (CLP) are not achieved.

#### Skin erosion/irritation

Based on component information, the classification criteria under Regulation (EU) No. 1272/2008 (CLP) are not achieved.

#### Serious eye damage/irritation

Based on component information, the classification criteria under Regulation (EU) No. 1272/2008 (CLP) are not achieved.

#### Respiratory or skin sensitization

Based on component information, the classification criteria under Regulation (EU) No. 1272/2008 (CLP) are not achieved.

#### Mutagenicity of a germ cell

Based on component information, the classification criteria under Regulation (EU) No. 1272/2008 (CLP) are not achieved.

#### Cancerogenity

NTP, OSHA, ACGIH, IARC: Product components have not been classified as probable, possible, or confirmed human carcinogens.

#### Toxicity to reproduction

Based on component information, the classification criteria under Regulation (EU) No. 1272/2008 (CLP) are not achieved.

#### Specific systemic toxicity to the target organ - single exposure

Based on component information, the classification criteria under Regulation (EU) No. 1272/2008 (CLP) are not achieved.



Specific systemic toxicity to the target organ - repeated exposure

Based on component information, the classification criteria under Regulation (EU) No. 1272/2008 (CLP) are not achieved.

Danger of aspiration

Not applicable

## Section 12 Environment impact data

### Toxicity

Toxicity to aquatic organisms

The material is inorganic, water-insoluble, nonre-active, remains stable within a long period of time. No hazardous effects on the environment are expected.

### Stability and degradability

Abiotic degradation

No data.

Physical and photochemical removal

No data.

Biodegradability

No data.

### Bioaccumulation potential

N-octanol-water partition coefficient (log Kow)

No data.

Bioconcentration factor (BCF)

No data.

### Mobility in soil

Known or predicted distribution in environmental objects

No data.

Capillary tension

No data.

Adsorption/desorption

No data.

### Assessment results of PBTand vPvB

Not a PBT/vPvB substance.

### Other adverse effects

No data.

### Additional information

No data.

## Section 13 Recommendations for waste disposal (residues)

### Methods of waste disposal

<b>Product</b>	If possible, return to production. It is not hazardous waste. Dispose in accordance with local and federal environmental regulations.
<b>Contaminated packaging</b>	Dispose the packaging the same way as the contents.

## Section 14 Information during transportation (shipping)

### ADR/RID/ADN

Is not regulated.

### ICAO/IATA

Is not regulated.

### IMDG/IMO

Is not regulated.

## Section 15 Information on national and international legislation

### Occupational health and safety regulations and environmental legislation/regulations specific to the substance or mixture

**EU regulations** The Material Safety Data Sheet is compiled in accordance with Regulation (EU) 1907/2006 of the European Parliament and of the Council dated December 18, 2006, regarding the registration, evaluation, authorization and restriction of chemicals (REACH).

European Commission Regulation (EU) 2015/830 dated May 28, 2015 amending Regulation (EU) 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

Classification and labelling is made in accordance with Regulation (EU) 1272/2008 of the European Parliament and of the Council dated December 16, 2008, on the classification, labelling and packaging of substances and mixtures (CLP).

Regulation (EU) 2016/918 dated May 19, 2016 amending Regulation 1272/2008 of the European Parliament and of the Council on the classification, labelling and packaging of substances and mixtures (CLP).

Regulation (EU) 2018/1480 dated October 4, 2018 amending Regulation (EU) 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP) and Regulation (EU) 2017/776 of the European Commission.

Regulation (EU) 2018/669 dated April 16, 2018 amending Regulation 1272/2008 of the European Parliament and of the Council on the classification, labelling and packaging of substances and mixtures (CLP)

Regulation (EU) 2019/521 dated March 27, 2019 amending Regulation 1272/2008 of the European Parliament and of the Council on the classification, labelling and packaging of substances and mixtures (CLP)

<b>Restriction on use</b>	None.
<b>Other EU regulations</b>	The product does not contain substances included in the candidate list for authorization as Substances of Very High Concern (SVHC) to be agreed in the EU under Article 57 of the REACH Regulation.

## Chemical hazard assessment

No data.

## Section 16 Additional information

### List of changes

Not applicable

### Abbreviations and acronyms

**CAS:** Chemical Abstract Service

**EC:** European Economic Community

**OSHA:** Occupational Safety and Health Administration

**ACGIH:** Association of State Industrial Hygienists

**NIOSH:** National Institute for Occupational Safety and Health

**IARC:** International Agency for Research on Cancer

**NTP:** National Toxicology Program

**vPvB:** Very persistent bioaccumulative toxic substance

**PBT:** Persistent bioaccumulative toxic substance

**ADR:** European Agreement concerning the International Carriage of Dangerous Goods by Road

**RID:** Agreement on Transportation of Dangerous Goods by Rail

**ADN:** European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

**ICAO:** International Civil Aviation Organization

**IATA:** International Air Transport Association

**IMDG:** International Maritime Dangerous Goods Code

**IMO:** International Maritime Organization

### Key literature and data sources

ECHA (European Chemicals Agency)

GESTIS International Limit values Database

OSHA Occupational Chemical Database

## Definition of the class of mixtures and the evaluation method used Regulation (EU) No. 1272/2008 [CLP]

Classification according to EU regulation N° 1272/2008 (CLP)      Assessment method

Not classified      Not applicable

## List of related R-phrases(number and expansion)

Not applicable

## List of relevant CLP classifications

Not applicable

## Training advise

Read the safety data sheet before use.

## Other information

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To the best of our knowledge, the information provided is believed to be accurate and reliable at the time of publication, but we accept no responsibility for its accuracy or completeness. It is the responsibility of the purchaser to inspect and test the product to determine its suitability for a particular purpose. The purchaser is responsible for the proper, safe and legal use, processing and handling of the product. The information given refers exclusively to the product unless it is used in conjunction with other materials.