

MATERIAL SAFETY DATA SHEET

According to 2001/58/EC
Issue Date: 11 February 2011, NA Edition No. 004 EN
Revision Date: 20/11/2017

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1. IDENTIFICATION OF THE MATERIAL/SUBSTANCE, PREPARATION AND MANUFACTURER

Identification of the substance/preparation

Product name: Continuous Filament made of Basalt enriched (enhanced) and Aggregated Batch (CAS No. 65997-17-3)
Product reference: Filava™ BSB+
Use of the Substance/Preparation: Industrial use (fibre reinforcement for composites, tech textiles, etc)
Manufacturer: ISOMATEX S.A.
Scientific Park CREALYS
Rue Camille Hubert 29
5032 Gembloux (Isnes)
Belgium
Emergency telephone number: +32(0)81.72.86.86

2. COMPOSITION/INFORMATION ON INGREDIENTS

Description: Mineral fibre with binder (sizing)

Synonyms:

Roving: Continuous Roving FILAVA™ BSB+ or FILAVA™ BSB+(1) or FILAVA™ BSB+(2); FILAVA™ BSB+(3) or FILAVA™ "S" or "S+"; FILAVA™ "G";

Components Weight %

Mineral fibre (Basalt Blended and Aggregated) continuous filament > 98,0 %
Organic surface binder/sizing < 2.0 %

3. HAZARDS IDENTIFICATION

Most important hazards:



May cause eye or skin irritation with susceptible persons.
May cause irritation of respiratory tract.

4. FIRST AID MEASURES

General advice:

Immediate medical attention is not required.

Inhalation:

Generally not applicable. Only if necessary, move to fresh air. If symptoms persist, call a physician.

Skin contact:

Wash off with plenty of water. Use a mild soap if available. Use a washcloth to help remove fibres. To avoid further irritation, do not rub or scratch affected areas. Rubbing or scratching may force fibres into skin. If skin irritation persists, call a physician.

Eye contact:

Remove contact lenses. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.

Ingestion:

Gently wipe or rinse the inside of the mouth with water. Give small amounts of water to drink. Never give anything by mouth to an unconscious person. If it does occur, watch the person for several days to make sure that intestinal blockage does not occur. Consult a physician if necessary.

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5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Water, carbon dioxide (CO ₂), foam, dry chemical.
Extinguishing media which must not be used for safety reasons:	None.
Hazardous decomposition products:	Carbon monoxide, carbon dioxides and water
Special protective equipment for fire-fighters:	Not required.
Further information:	Mineral fibre (Basalt Aggregated) itself is non-combustible. The surface coating can burn. This may lead to the formation of hazardous decomposition products.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Ensure adequate ventilation.
Environmental precautions:	No special environmental precautions required.
Methods for cleaning up:	Pick-up and arrange for disposal in a manner that avoids creating excessive dust. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

HANDLING

Technical measures/Precautions:	Take measures to prevent the build up of electrostatic charge. Increasing mechanical stress may generate dust and airborne fibres, which may cause discomfort.
Safe handling advice:	Avoid dust formation.

STORAGE

Technical measures/Storage conditions:	Store at room temperature and relative humidity less than 65% (+/- 10%) for optimum performance. Keep in a dry place.
Incompatible products:	None.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls Exposure Limit Values

OSHA 15mg/m³ (total dust.), 5mg/m³ (respirable dust)
ACGIH 5 mg/m³ TWA (inhalable fraction), 1 fibre/cm³ (respirable fraction)
UK, IRL OEL 5mg/m³ TWA (inhalable dust), 2 fibres/cm³ (respirable fraction)

Engineering measures to reduce exposure: Ensure adequate ventilation, especially in confined areas.

Personal protection equipment (PPE)

Respiratory protection:

Effective dust mask.
If use or application generates dust, use an appropriate respirator with a particulate filter.

Hand protection:

Rubber or plastic gloves. Break through time: no data available.

Eye protection:

Safety glasses with side-shields.

Skin and body protection:

Lightweight protective clothing as loose fitting long sleeved shirt that covers to the base of the neck, long pants and gloves. Skin irritation is known to occur chiefly at pressure points such as around neck, wrist, waist and between fingers.

Hygiene measures:

General industrial hygiene practice. Regular cleaning of equipment, work area and clothing.

Do not eat or drink when using.

Environmental exposure controls:

No special environmental precautions required.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Appearance: solid / fibres
Colour: Green/slightly Braun - light yellow
Odour: inodorous

Important Health, Safety and Environmental Information

pH: not applicable (DIN 54276)
Boiling point/range: not applicable
Melting point /range: 1.550°C
Freezing point: not applicable
Explosion limits: no data available
Vapour pressure: not applicable
Vapour density: not applicable
Relative density: 2,6 – 2,7 gr/cm³ (expressed at ambient temperature)
Solubility: Water solubility: insoluble
Viscosity: Not applicable
Other information: Not available

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10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions. Hazardous polymerization does not occur.
Conditions to avoid: High humidity environment
The product can give off smoke at approximately 200 - 260°C due to the decomposition of the surface coating / sizing.
Materials to avoid: None.
Hazardous decomposition products: Carbon oxides and other hazardous combustion products from the surface coating.

11. TOXICOLOGICAL INFORMATION

Acute toxicity, e.g. LD50: No data available.
Local effects: May cause eye/skin irritation. May cause irritation of respiratory tract. Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.
Long term toxicity: Health injuries are not known or expected under normal use
Specific effects: Not carcinogenic (97/69 EC, ACGIH, NTP, IARC, OSHA). Continuous fibre is not on any list as a carcinogen.
Further information: There are no known chronic health effects related with long term use or contact with non-respirable continuous filament or fibres. As manufactured, ISOMATEX fibres are non-respirable. Non-respirable fibres cannot reach the deep lung because they have a diameter of greater than 3,0 micrometers. Fibres of this diameter cannot penetrate the narrow, bending passages of the human respiratory tract to reach the lower regions of the lung, and thus, have no possibility of causing serious pulmonary damage. Instead, they deposit on the surface of the upper respiratory tract, nose or pharynx. These fibres are then cleared through normal physiological mechanisms.

12. ECOLOGICAL INFORMATION

Mobility: Insoluble.
Persistence / degradability: No data available.
Bioaccumulation: No data available.
Ecotoxicity: No data available.

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13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: Waste Code N°: EWC-Code 101103
Can be land filled, when in compliance with local regulations.

Impure packaging: Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC.

16. OTHER INFORMATION

Recommended use: Industrial Application

Data 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 a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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.