



MATERIAL SAFETY DATA SHEET

Issued: 30.01.06

SECTION I – PRODUCT INFORMATION

1. NAME AND ADDRESS:

TECHNOBASALT-INVEST LLC
 vul. Knyaziv Sanhushko, 95
 Slavuta 30002
 Khmelnytsk region
 Ukraine

2. EMERGENCY TELEPHONE NUMBERS:

+38 044 280-93-61
 +38 067 284-25-95

3. CHEMICAL NAME AND SYNONYMS:

Basalt Continuous Fiber

4. TRADE NAME AND SYNONYMS:

Basalt Continuous Fiber

SECTION II – COMPOSITION AND INGREDIENT INFORMATION

COMMON NAME	CHEMICAL NAME	CAS NUMBER	WT. %
Non-Hazardous Ingredients			
Basalt Fiber	Filament Basalt	308062-79-5	98-100
Size	Size	none	0-2

SECTION III – HAZARDS INDEFICATION

Appearance and Odour: Brown colour solid with no odour.

Primary Route(s) of Exposure: Inhalation, skin, eye

Potential Health Effects:

ACUTE (short term):

Continuous basalt filament is a mechanical irritant. Inhalation of dusts and filament may cause temporary irritation of the mouth, noses, and throat. Skin contact with dust and filament may produce itching and temporary irritation. Eye contact with dust and filament may produce temporary mechanical irritation. Ingestion may produce temporary mechanical irritation of the digestive tract. See Section 8 for exposure controls.

CHRONIC (long term)

There are no known health effects associated with chronic exposure to this product. See Section 11 of MSDS for an explanation of the toxicological data.

Medical Conditions Aggravated by Exposure: Chronic respiratory or skin conditions that are aggravated by mechanical irritants may be at increased risk for worsening from exposure to this product.



SECTION IV - FIRST AID

INGESTION: Ingestion is unlikely. If ingested, the preferred method of elimination is through natural gastrointestinal elimination. Induction of vomiting is not recommended. Drink extra water. Get medical attention if gastrointestinal symptoms develop; for example, irritation, nausea, vomiting, abdominal pain, and diarrhea.

SKIN CONTACT: Remove contaminated clothing. Wash area of contact thoroughly with soap and water. Do not rub or scratch exposed skin. Using a skin cream or lotion after washing may be helpful. Get medical attention if irritation persists.

EYE CONTACT: Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Do not rub. Get medical attention if irritation persists.

INHALATION: These fibers are not respirable into the lungs. Some people may be sensitive to a fiber-induced irritation of the upper respiratory tract.

SECTION V - FIRE FIGHTING MEASURES

Flash Point and Method:	None
Flammable Limits (%):	None
Auto Ignition Temperature:	Not Applicable
Extinguishing Media:	Water, foam, CO ₂ , or dry chemical
Unusual Fire and Explosion Hazards:	None known
Fire Fighting Instructions:	Use self contained breathing apparatus (SCBA) in a sustained fire.
Hazardous Combustion Products:	Some undetermined compounds could be released in small quantities.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Spill or leak procedure: If refuse from cutting or other operations is generated, use a vacuum to clean up spilled material. Use wet sweeping or a dust suppressant where sweeping is necessary. Personal safety, handling and exposure recommendations described elsewhere in this data sheet apply to exposure during clean up of spilled material and should be followed.

Water Spill: This material will sink and disperse along the bottom of waterways and ponds. It can not easily be removed after it is waterborne; however, the material is non-hazardous in water.

Waste disposal: This material, when discarded or disposal of, is not listed as a hazardous waste in regulations. The transportation, storage, treatment and disposal of waste material must be conducted in compliance with all applicable Federal, state, and local regulations, and in such a manner as to assure no discharge to a source of drinking water.

Air Release: This material will settle out of the air. If concentrated on land it can then be scooped up for disposal as a non-hazardous waste.



SECTION VII - HANDLING AND STORAGE

Storage Temperature:	Not applicable.
Storage Pressure:	Not applicable.
General:	No special storage or handling procedures are required for this material.

SECTION VIII - EXPOSURE CONTROLS & PERSONAL PROTECTION

Ventilation: General dilution ventilation and/or local exhaust ventilation should be provided as necessary to maintain exposures below regulatory limits.

Personal Protection

Respiratory Protection: A properly fitted NIOSH/MSHA approved disposable dust respirator should be used when: high dust levels are encountered; the level of basalt filament in the air exceeds the OSHA permissible limits; or if irritations occurs.

Use respiratory protection in accordance with your company's respiratory protection program, local regulations and OSHA regulations under 29 CFR 1910.134.

Skin Protection: Loose fitting long sleeved shirt that covers to the base of the neck, long pants and gloves should be used. Skin irritation is known to occur mainly at pressure points such as around neck, wrist, waist and between fingers.

Work/Hygienic Practices: Handle in accordance with good industrial hygiene and safety practices. These practices include: avoiding unnecessary exposures to dusts and filament by using good local exhaust ventilation; removal of the material from the skin and eyes after exposure; removal of the material from clothing (Use vacuum equipment to remove filament and dusts from clothing. Compressed air should never be used. Always wash contaminated work clothes separately from other laundry and wipe out washer/sink to prevent loosed filament from getting on other articles); keep the work area clean of dusts and filaments generated during fabrication (Use vacuum equipment to clean up dusts and filament. Avoid sweeping or using compressed air as these techniques re-suspend dusts and filament into the air.) and; have access to safety showers and eye wash stations.

SECTION IX - PHYSICAL/CHEMICAL PROPERTIES

Vapour Pressure (mm Hg @ 20 C):	Not Applicable
Vapour Density (Air =1):	Not Applicable
Specific Gravity (Water =1):	2.6
Solubility in Water:	Insoluble
pH:	Not Applicable
Appearance:	Solid
Odour Type:	None
Evaporation Rate (n-Butyl Acetate =1)	Not Applicable
Boiling Point:	Not Applicable
Viscosity:	Not Applicable
Physical State:	Solid
Freezing Point:	Not Applicable



SECTION X - STABILITY AND REACTIVITY

General:	Stable
Incompatibility (Materials to Avoid):	None
Hazardous Decomposition Products:	Sizings or binders may decompose in a fire. (See section 5 of MSDS for combustion products statement)
Hazardous Polymerization:	Will not occur

SECTION XI - TOXICOLOGICAL INFORMATION

CARCINOGENICITY:

The table below indicates whether or not each agency has listed each ingredients as a carcinogen

Ingredient	ACGIH	IARC	NTP	OSHA
Basalt Continuous Filament	No	No	No	No
Size	No	No	No	No
	LD/Oral	LD/Dermal	LC/Inhalation	
	(g/kg)	(g/kg)	(ppm, 8 hrs.)	
Basalt Continuous Filament	N/A	N/A	N/A	
Size	N/A	N/A	N/A	

BASALT CONTINUOUS FIBERS:

The fibers in these materials are produced by melting naturally occurring basalt rock materials. The resulting vitreous fibers are amorphous and contains SiO₂, Al₂O₂, CaO, MgO, Fe₂O₂ and other naturally occurring oxides. No carcinogens are present in amounts above 0.1%.

SECTION XII - ECOLOGICAL INFORMATION

This material is not expected to cause harm to animals, plants or fish.

SECTION XIII - DISPOSAL CONSIDERATIONS

RCRA Hazard Class Non-Hazardous

SECTION XIV - TRANSPORT INFORMATION

DOT Shipping Names:	Not regulated
Hazard Class or Division:	None
Identification No.:	None
Label(s) required (if not excepted):	None
Special Provisions:	None
Non-Bulk Packaging:	None
Bulk Packaging:	None
Packaging Exceptions:	None
EPA Hazardous Substances:	None



Quantity Limitations:
Passenger Aircraft: None
Cargo Aircraft: None
 Marine Pollutants: None
 Hazardous Material Shipping Description: None

SECTION XV - REGULATORY INFORMATION

TSCA Status: Each ingredient is on the inventory.

SARA Title III: Hazard Categories:
 Acute Health: Yes
 Chronic Health: No
 Fire Hazard: No
 Pressure Hazard: No
 Reactive Hazard: No

Reportable Ingredients:
 Sec. 302/304: None
 Se. 313: None

SECTION XVI - OTHER INFORMATION

HMIS and NFPA Hazard Rating:

Category	HMIS	NFPA
Acute Health	1	1
Flammability	0	0
Reactivity	0	0

NFPA Unusual Hazards: None
HMIS Personal Protection: To be supplied by user depending upon use.