



Chopped CBF

Safety Data Sheet

1. Identification

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Product description:	Chopped Continuous Basalt Fiber - (Chopped CBF) 5-9 µm diameter of monofilament.
Trade Name:	UBT Chopped CBF
Product code:	UBT/CCBF
EC number:	266-046-0 (Glass, oxide, chemicals)
REACH regulation:	REACH regulation: Basalt fiber is exempt from REACH registration according to Annex V (Entry 11) of REACH regulation, since basalt fiber is not listed in Regulation No 1272/2008 (formerly in Directive 67/548/EEC), considering that basalt fiber is continuous filament fiber and cannot be included in groups No 650-016-00-2 Mineral wool and No 650-017-00-8 Refractory Ceramic Fibers, Special Purpose Fibers. The chemicals of the silane-based coating whether not listed in Regulation No 1272/2008 or present in concentrations below their concentration limits.
Application:	Chopped CBF designed to reinforce thermoplastics or thermoset composites and can be used for wet and dry fiber laying processes, compounding and injection moulding, as well as for Spray-up composites, general composites, insulation.
Product use:	Industrial applications
Use of the substance/mixture:	Industrial applications
Uses advised against:	Not applicable
Manufacturer:	"UBT" LLC 20, Pushkinska Str., office 39, 01024, Kyiv
Supplier:	"UBT" LLC
Contact:	info@ukrbastech.com

2. Data on composition/ingredients

Product data:	Chopped CBF 5-9 μm diameter of monofilament and length of 5, 10, 20, 30, 40, 50 mm. Moisture content between 2% and 10% weight/weight. Silane based coating for lubrication and protection of filaments (0.15% - 0.6% w/w).
Hazardous ingredients:	Basalt is a naturally occurring inert rock; it is non-toxic and does not contain any toxic impurities. The surface coating is considered non-hazardous.
Additional remarks:	None

3. Potential Risks

Type of Risk:	Fibers are not normally respirable as they have a 5-9 μm diameter of monofilament. The World Health Organization classifies fibers with a diameter of $> 3\mu\text{m}$ are considered non-respirable. Potential irritant causing irritation to skin, eyes and respiratory tract during mechanical handling. High concentrations of airborne dust may cause a build-up of dust in the ears, eyes and upper respiratory tract. High volumes of airborne basalt fiber may also reduce visibility in the workplace. UBT Chopped CBF has a diameter $> 4 \mu\text{m}$ and only splits longitudinally when mechanically processed through grinding or sanding etc. Sections 3, 8 define safe exposure limits if these processes are used. Consult local authorities for acceptable exposure limits.
Long Term Risks:	There are no known long-term health effects connected with long term exposure to basalt fiber.
Special risks to individuals and environment:	Inhalation risk if mechanical grinding or sanding is performed on the product: To UK HSE EH40/2005 Workplace Exposure Limit (8 h TWA). Long Term Exposure Limit of MMMF 5 mg/m^3 (respirable dust) 2 fiber/cm^3

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4. First Aid

General:	It is very unlikely that continuous basalt fibers will cause harm. However Chopped CBF can irritate splinters of filament entering the skin or other body areas. Any fiber fragments should be removed from the person by gentle washing with plenty of soap and cool clean water.
After inhalation:	Inhalation is unlikely to occur unless Chopped CBF is being mechanically ground or sanded into dust. If irritation to the respiratory tract occurs and persists, move the person into the fresh air and seek medical attention.
After skin contact:	Remove from skin and with gentle washing of affected site with soap and cool clean water. Seek medical attention if symptoms persist or if the fibers become deeply embedded in the skin.
After eye contact:	Rinse with clean water for several minutes and seek medical attention if symptoms of irritation persist.
After swallowing:	Seek medical attention immediately.

5. Fire fighting

Appropriate firefighting media:	Chopped CBF is non-flammable and non-explosive. Use normal firefighting measures in the event of a fire.
Inappropriate firefighting media (safety reasons):	None
Particular risks specific to the product, its combustion products or developing gasses:	None
Required firefighting PPE:	None
Additional information:	None

6. Actions on inadvertent release

Recover using vacuum or brushing means and dispose of according to item 13. Avoid creating airborne dust during recovery by means of wetting with water.

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7. Handling and storage

Safe handling information including technical safeguarding:	Processing Chopped CBF may generate dust and airborne fibers. This may cause discomfort on skin contact. Skin irritations and splinters are possible. Availability of local exhaust ventilation with a vacuum system is advised to remove any dust and loose fiber. The general hygiene rules and measures applying for the handling of chemicals must be employed. Use of gloves, eye protection and masks are recommended.
Fire and explosion related information:	The products are non-combustible.
Safe storage conditions Storage room/warehouse requirements:	Storage rooms should be dry with low humidity. Always store it in the original packaging, which should be intact. Chopped CBF is relatively heavy; ensure that all storage is suitable for the weight that is being stored.
Incompatible materials/ restrictions on combined storage:	None
Storage conditions:	Storage at room temperature in dry, low humidity atmosphere.
Special requirements on electric systems and equipment:	None
Static charge prevention:	None
Storage class:	13

8. Exposure control and Personal Protective Equipment (PPE).

Additional information for the design of technical equipment:	See item 7.1
Fire and explosion related information:	The products are non-combustible.

Substances with work-place related limit values/classification subject to control:

Continuous basalt fiber is uniform in diameter and is not subject to EC Guideline 97/69/EC. Continuous basalt fiber is not considered carcinogenic according to EC Guideline 1999/45/EC and TRGS 220 (Germany).

The Chopped CBF produced have a 5-9 µm diameter of monofilament.

Manmade mineral fibers categorized in appendix 7 HazMat Ordinance or TRGS 521 are subject to a TRK value of 250,000 fibers/m³ according to TRGS 900.

Personal Protective Equipment (PPE)

Respiratory protection:

Respiratory protection: At elevated airborne fiber and dust levels, the use of respiratory equipment is recommended (dust mask with fine filter according to EN 143), Filter P1 (EN 141).

Eye protection:

In case of airborne fibers and dust, safety glasses with side shields are recommended; EN 166.

Hand protection:

Safety gloves should be worn to avoid possible skin irritation and the application of a suitable work hand cream for additional protection.

Body protection:

Long-sleeved safety clothing should be worn as well as normal personnel protective equipment such as safety boots to EN 344.

General protection and hygiene:

Wash hands thoroughly before eating, visiting the toilet and at the end of the working day. In case of sensitive skin, apply a protective moisturizing barrier cream after washing hands and before handling fibers.

9. Physical and chemical properties

Appearance	Shape/State of aggregation: Single length of CBF wrapped as a cylindrical bobbin.
Colour	Golden-brown
Odor	None
pH-Value (2g in 100 ml of water, 20 °C):	Not Applicable (DIN 54276)
Boiling point/boiling range:	Not Applicable
Melting point:	~1550 °C
Flash point:	Not Applicable
Flammability:	The product is non-combustible.
Ignition temperature:	Not Applicable
Self-ignition temperature:	Not Applicable
Danger of explosion:	Not Applicable
Explosion limits	
Lower:	Not Applicable
Upper:	Not Applicable
Fire promoting properties:	Not Applicable
Vapor pressure:	Not Applicable
Density, expressed as bulk density (20 °C):	2.64 g/cm ³ (raw basalt)
Solubility in water:	Insoluble

Solubility in fat:	Insoluble
Distribution coefficient n-Octanol/water:	No Data Available
Other:	None

10. Stability and reactivity

Conditions to be avoided:	Humidity > 65%.
Substances to be avoided:	None
Hazardous decomposition products:	None
Other:	This product is inert.

11. Toxicology data

Practical experience Classification specific information:	No Data Available
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12. Ecology data

Toxicity:	Chopped CBF is non-toxic
Persistence and degradability:	Not applicable
Bioaccumulative potential:	Not applicable
Mobility in soil:	Not applicable
Results of PBT and vPvB assessment:	Not applicable
Other adverse effects:	Not applicable
Additional information:	None

13. Disposal

Disposal of Product:	Basalt fiber is non-hazardous, inert solid waste and should be disposed of according to local laws and guidelines.
Waste Code No:	EWC-Code 101103 Appropriate landfill.
Disposal of Used Packing/ Wrapping material:	Remove waste basalt fiber from the original bag and dispose of it to local recycling or landfill if no recycling service exists.
Waste Code No:	EWC Code 150102
Waste type:	Plastic Heat Shrink Wrap

14. Transport information

UN number:	Not Applicable - Product is Non-hazardous
UN proper shipping name:	Not Applicable
Transport hazard class(es):	Not Applicable
Packing group	Not Applicable
Environmental hazards:	Not Applicable
Special precautions for user:	Not Applicable
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Not Applicable

15. Regulations

Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations: REACH regulation:	Exempt from registration
Authorizations and/or restrictions on use:	Not Applicable
Water hazard class:	Substances non-hazardous to waters Number 1.2a Class 765
Other regulations, restrictions and prohibition regulations:	If mechanically ground or sanded air exposure guidelines to UK HSE EH40/2005 Workplace Exposure Limit (8 h TWA) Long Term Exposure Limit of MMMF 5 mg/m ³ (respirable dust) 2 fiber/cm ³

Chemical Safety Assessment:	Chopped CBF is an inert product made purely of molten basalt stone. No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.
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16. Other

European Chemical Hazard and Precautionary Statements:	CBF is an inert product made purely of molten basalt stone. No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.
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P301 + P330 + P331 P302 + P350 P304 + P340 P305 + P351 + P338	IF SWALLOWED: rinse mouth with fresh water. Do NOT induce vomiting. IF ON SKIN: Gently wash with plenty of soap and water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P335 P402 P501 H316 H335	Brush off loose particles from skin. Store in a dry place. Dispose of contents/container to local refuse facility. Causes mild skin irritation. May cause respiratory irritation.

R-phrases

Code	Phrase
R36/37/38	Irritating to eyes, respiratory system and skin.

S-phrases

Code	Phrase
S22	Do not breathe dust.
S25	Avoid contact with eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37/39	Wear suitable gloves and eye/face protection.
S63	In case of accident by inhalation: remove casualty to fresh air and keep at rest.
S64	If swallowed, rinse mouth with water (only if the person is conscious).

17. Further Regulatory information

OSHA/HCS status:	CBF is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
United States inventory (TSCA 8b):	Not Applicable
Australia inventory (AICS):	All components are listed or exempted
Canada inventory (DSL):	All components are listed or exempted
China inventory (IECSC):	All components are listed or exempted
Japan inventory (ENCS):	All components are listed or exempted
Korea inventory (KECI):	All components are listed or exempted
New Zealand (NZIoC):	All components are listed or exempted
Philippines inventory (PICCS):	All components are listed or exempted
Europe inventory (REACH):	All components are listed or exempted
United States SARA 302/304	
SARA 304 RQ:	Not applicable
SARA 311/312:	
Classification:	Not applicable
Composition/information on ingredients:	No products were found

Hazardous Material Information System (U.S.A.)

Health:	1
Flammability:	0
Physical hazards:	0

The customer is responsible for determining the PPE code for this material. National Fire Protection Association (U.S.A.)

Health:	1
Flammability:	0
Instability:	0
Data of previous issue:	No previous validation

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. (*) Chronic effects

DISCLAIMER OF LIABILITY

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