

# MiniBarsTM - Basalt Fiber Reinforced Polymer BFRP

Revision date: 19.09.2017

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

 1.1 Product identifier

 Chemical name
 MiniBarsTM - Basalt Fiber Reinforced Polymer BFRP

 Replace MSDS of
 15.09.2015

 Version number
 2.0

 Brand name
 MiniBarsTM

1.2 Relevant identified uses of the substance or mixture and uses advised against Uses of the chemical

Basalt Fiber Reinforced, non-metallic arming for concrete.

Uses advised against

1.3 Details of the supplier of the

This product is not recommended for other uses than those specified above.

1.3 Details of the supplier of the safety data sheet

Company/undertaking ReforceTech AS identification Luftveien 4 3440 Røyken Norway

Phone: +47 971 70 670 http://www.reforcetech.com reforcetech@reforcetech.com

E-mail reforcetech@reforcetech
Responsible ReforceTech AS
Author Sensor Chemcontrol AS

1.4 Emergency telephone number

Poison Information Centre: +47 22 59 13 00.

#### **SECTION 2: HAZARD IDENTIFICATION**

2.1 Classification of the substance or mixture
Classification according to

Not a hazardous substance or hazardous mixture according to Regulation (EC) No 1272/2008.

1272/2008EC 2.2 Label elements

Precautionary statements

Prevention

P261 Avoid breathing dust.

2.3 Other hazards

The chemical does not come under (not covered by) REACH Annex XIII regulations for PBT or

vPvB substances.

#### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.2 Mixtures

Ingredients	Identification	Classification	Note	Weight%
Basalt fibre			Z	ca 82
Hardened vinyl ester			Z	ca 18
Nuisance dust, total dust			Æ	

Explanation

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Ingredients comments	This chemical does not contain any classified substances.
	Note Æ: The substance is listed because it has a exposure limit (OEL).
	Note Z: Although the component are not classified as dangerous according to Regulation (EC) No 1272/2008, it provides valuable information to the product composition.
OFOTION 4: FIRST AIR M	FACUREO

#### **SECTION 4: FIRST AID MEASURES**

4.1 Description of first aid measures	
Inhalation	Symptomatic treatment for inhalation of dust or aerosols. Fresh air, warmth and rest, preferably in a comfortable, half-sitting position. If breathing stops, perform artificial respiration. Keep respiratory tract open.
Skin contact	Rinse thoroughly with running water. Remove contaminated clothing, watches and the like. It is not probable that the product is harmful in contact with skin.
Eye contact	If fibres or dust get into the eye, remove by flushing with water; If not successful, seek medical attention.
Ingestion	No exposure is likely due to the physical condition of the product.
Medical information	Symptomatic treatment.
4.2 Most important symptoms and effects, both acute and delayed	Not known
4.3 Indication of any immediate medical attention and special treatment needed	Not known

#### **SECTION 5: FIREFIGHTING MEASURES**

5.1 Extinguishing media	
Suitable extinguishing media	Water spray, foam, CO2 or powder.
Extinguishing media which shall not be used	Avoid using directed water jets during extinguishing work.
5.2 Special hazards arising from the substance or mixture	May develop harmful combustion products by heating or fire.
5.3 Advice for firefighters	Not known

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures	Wear protective clothing as described in Section 8.2 of the material safety data sheet.
6.2 Environmental precautions	Avoid generation and spreading of dust.
6.3 Methods and material for containment and cleaning up	Sweep together and collect.
6.4 Reference to other sections	See section 7 for information on safe handling. See section 8 for information on personal protection equipment. See section 12 for information on ecology. See section 13 for waste disposal.

## **SECTION 7: HANDLING AND STORAGE**

7.1 Precautions for safe handling	Handle in accordance with good hygiene and safety practice. Operating instructions should be followed to ensure safe use and best results.
7.2 Conditions for safe storage, including any incompatibilities	The product is flammable and should not be exposed to open flames. Keep in original packaging.
7.3 Specific end use(s)	Basalt Fiber Reinforced non-metallic arming for concrete.

#### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

# 8.1 Control parameters

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			8 hc	our	Sh	ort			
Ingredients	Einecs nr	CAS nr	mg/m3	ppm	mg/m3	ppm	Ref.	Note	Year
Nuisance dust, total dust			10				Norsk	21	2017
OAR remarks	Norsk = Measures an from the norwegian re Footnote 21: The threair.	egulation "For	skrift om tilt	aks- og g	renseverdiei	r".	1		
8.2 Exposure controls									
Exposure controls	Common sense and sall containers are proposed working hygiene. Ma or ventilation in the w	perly labeled t ke use of reco	o prevent acc mmended sa	cidental ii fety equij	ngestion or i oment. Prov	mproper us	e. Ensure good		
Respiration protection	Use P2 filters against harmless. Dust filters Normally not require Committee for Standa	Use P3 filters if there is a lot of fine dust (smoke), or where the impurities are particularly dangerous. Use P2 filters against most types of dust with low toxicity. P1 filter is only to be used if dust is harmless. Dust filters to be replaced when it becomes difficult to breathe through.  Normally not required but for prolonged exposure is respiratory protection required. The European Committee for Standardisation (CEN) standards EN136, EN140 and EN405 specify respirator masks and EN149 and EN143 specify filter recommendations.							
Eye protection	Wear goggles or face shield for protection against dust. Eye protection shall be in accordance to EN 166 standard.								
Hand protection	EN 388 - Protective gloves against mechanical risks may be be considered. Latex or vinyl gloves are recommended for prolonged exposure.								
Skin protection	Not required under no	ormal use of th	ne product.						
Additional information	It is good industrial hetc. which are suitable help to protect expose prevent skin contact. good order.	e for keeping ted skin, but ca	the product a n not substitu	nd thereb ite for glo	y cause skir oves. Remov	n reactions. ve contamin	Barrier creams rated clothing to	nay	

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical	
and chemical properties	
Form	Solid
Colour	Black
Odour	None
Smell limit	Not known
pH - conc.	Not known
Melting point	1450 °C ( Basalt )
Boiling point	Not known
Flash point	480 °C
Relative evaporation rate	Not known
Flammability (solid, gas)	Not known
Explosion limits	Not known
Vapour pressure	Not known
Vapour density	Not known
Relative density	1,9
Solubility	Not known
Solubility water	0 % (Non soluble)
Partition coefficient	Not known
Auto-ignition temp.	Not known
Decomposition temperature	Not known
Viscosity	Not relevant (solid)
Explosive properties	Not known
Oxidising properties	Not known
9.2 Other information	Not known

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#### **SECTION 10: STABILITY AND REACTIVITY**

10.1 Reactivity	Not known
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	Not known
10.4 Conditions to avoid	Keep away from open flames and all other forms of ignition.
10.5 Incompatible materials	Not known
10.6 Hazardous decomposition products	The product does not decompose if it is used as intended.

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

11.1 Information on toxicological effects	
Acute toxicity	Under normal use, no health effects are anticipated.
Skin corrosion/irritation	Based on available data, the criteria for classification are not fullfilled.
Serious eye damage/ irritation	May cause mechanical irritation.
Respiratory or skin sensitisation	None of the substances listed in section 3 is classified as allergenic.
Germ cell mutagenicity	None of the substances listed in section 3 is classified as mutagenic.
Carcinogenicity	None of the substances listed in section 3 is classified as carcinogenic. Basalt fibers in the product is uniform and does not come under the definition of MMMF (Man Made MineralFibres), and therefore not affected by classification for these (according to the EU Commission Directive 97/69 / EC).  Basalt fibers used in the reinforcement have a diameter of more than 3 micrometers and therefore can not enter the lungs. They are therefore not possible carcinogens according to EU Commission EC Guideline 1999/45 (EC).  No fibers created during cutting the product can be classified as carcinogens by the criteria of the World Health Organization. Analysis was conducted by "Statens arbeidsmiljøinstitutt" (norwegian national work environment institute) on dust collected on filter in October 2010 in accordance with "Determination of airborne fiber number concentration. A recommended method, by phase contrast optical micro copy (membrane filter method). "World Health Organization, Geneva 1997, 53 pages.
Reproductive toxicity	None of the substances listed in section 3 is classified as reproduction toxic.
STOT-single exposure	Based on available data, no classification criteria are met.
STOT-repeated exposure	Based on available data, the criteria for classification are not fullfilled.
Aspiration hazard	Based on available data, no classification criteria are met.
Additional information	Probable route of exposure: Skin contact. Inhalation of dust or airborne particles.

#### **SECTION 12: ECOLOGICAL INFORMATION**

12.1 Toxicity	Mixture with low solubility. No eco-toxic effect known.
12.2 Persistence and degradability	The product is not biologically degradable.
12.3 Bioaccumulative potential	No bio-accumulation is indicated. No harmful long-term effects are expected on aquatic organisms.
12.4 Mobility in soil	The product is not soluble in water.
	This product does not contain any PBT or vPvB substances.
12.5 Results of PBT and vPvB	
assessment	
12.6 Other adverse effects	Not known

#### SECTION 13: DISPOSAL CONSIDERATIONS

SECTION 13. DISPOSAL CONSIDERATIONS		
13.1 Waste treatment methods		
Disposal group	EWC code assessed by the end user, if necessary EWC: 16 01 99 wastes not otherwise specified. EWC code assigned by the user based on the application of the product. The EWC code are for illustrative purposes only. Always check the waste codes in view of the current state the product is in. The final waste groups and tags must be determined by the user, based on the actual use of the product.	

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Packings	Contaminated packaging material should be treated equivalent to residual chemicals. Clean packaging material should be subjected to waste management schemes (recovery recycling, reuse) according to local legislation.	
Additional information	Beyond the intended use, do not discharge product into drains, water courses, groundwater or in the environment.	
SECTION 14: TRANSPORT INFORMATION		

14.1 UN number	N/A
14.2 UN proper shipping name	n/a
14.3 Transport hazard class(es)	
ADR/RID class	Not known
14.4 Packing group	n/a
14.5 Environmental hazards	n/a
14.6 Special precautions for user	n/a
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	n/a

#### **SECTION 15: REGULATORY INFORMATION**

15.1 Safety, health and environmental regulations/ legislation specific for the	Norwegian Regulations: "FOR-2012-06-16-622 Forskrift om klassifisering, merking og emballering av stoffer og stoffblandinger (CLP).".  Commission Regulation (EU) No 453/2010 Annex II (Appendix II - "II").
substance or mixture	European Parliament and Council Regulation (EC) 1272/2008.
	Regulations regarding OAR values.
	Transport of hazardous goods: ADR, RID, IMDG, IATA (2011).
	ECHA (European Chemicals Agency) C&L Inventory database.
	Norwegian Waste Regulations (miljøverndepartementet): "FOR 2004-06-01 No. 930: Regulations
	relating to the recycling of waste".
	COMMISSION REGULATION (EU) No 944/2015 of 23 Mars 2015 (ATP6).
	Ex-ECB databasen (http://esis.jrc.ec.europa.eu/index.php?PGM=cla).
15.2 Chemical safety	The product contains no classified ingredients, therefore no chemical safety assessment report has
assessment	been prepared for the substance or mixture
Additional information	
	Classification of this product is given on the basis of the available information from the vendor.

## **SECTION 16: OTHER INFORMATION**

Key literature references and sources for data	Material safety data sheet from the supplier.
Abbreviations in the document	n/a - No relevant information.  vPvB - very Persistent and very Bioaccumulative (require special attention under REACH).  PBT - Persistent, Bioaccumulative and Toxic.  EWC - European Waste Catalogue codes.  bw/day - body weight / day  Article - according to REACH Regulation (EC) No. 1907/2006 is defined as an object that is produced in a special shape, surface or design which to a greater extent than its chemical composition determines its function.
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Additional information	Revised and quality controlled by: Sensor Chemcontrol AS Storgata 30 3611 Kongsberg Norway Tlf: +47 32 77 06 60 E-mail: helpdesk@sensor.as. URL: www.sensor.as.

--- SAFETY DATA SHEET conforming to commission regulation (EC) 1272/2008 and (EU) 2015/830 ---