

1. Identification of material and company details

1.1 Commercial name:: Steel fiber

1.2 Application: for dispersed concrete reinforcement and manufacturing of steel-fiber-concrete constructions

1.3 Manufacturer / supplier:
Open Joint Stock Company «Byelorussian Steel Works- management company of “Byelorussian Metallurgical company” holding»
 37 Promyshlennaya st.,
 247210 Zhlobin, Gomel Region,
 Republic of Belarus
 Tel.: + 375 (2334) 2-29-93
 Fax: + 375 (2334) 2-42-61

2 Composition / components information:

2.1 General description: Steel fiber - measured pieces of steel wire

2.2 Chemical composition of steel for manufacturing of steel fiber:

Element	Mass concentration of elements, %
Iron, not less	96,0
Carbon, not more	0,98
Manganese, not more	0,70
Silicon, not more	0,37
Copper, not more	0,40
Chromium, not more	0,35
Nickel, not more	0,35

3 Possible hazards:

3.1 Classification of European Community (EC) This product is not hazardous according to the Directive 1999/45/EC

3.2 Special hazard for people and environment: no

3.3 Emergency situation: The product (carton-packed) is in danger of ignition, if it is exposed to the open flame

3.4 Physical configuration:: solid material

3.5 Odour: absent

3.6 Potential hazards for health

Influence:	Protective measures:
Inhalation	exclude
Contact with skin	use protective gloves
Contact with eyes	use protective spectacles

4 First aid measures No special procedures are required for this product

5 Fire safety measures

Special influence method: material is not combustible

Special kind of danger: absent

6 Measures during spillage or leakage

6.1 Personal protection:	exclude
6.2 Environmental protection:	exclude
6.3 Cleaning / absorption / neutralization:	exclude

7 Handling and storage measures**7.1 Handling:**

Safe handling	unknown
Explosion and fire safety	unknown

7.2 Storage

Requirements	Avoid moisture, acid effects and other things affecting to corrosion. Store carton-packed products far from ignition sources.
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8 Safety measures**Equipment for personal protection****Hands protection**

Protective gloves are to be used while working with steel fiber.

Eyes protection

Protective spectacles are to be used while working with steel fiber.

9 Chemical and physical properties

Physical state:	solid
Colour:	goldish or steel
Odour:	absent
pH:	not applicable
Melting point:	1485 - 1538°C (2705-2800°Φ)
Flash point:	not applicable
Explosive characteristic:	not applicable
Water solubility:	insoluble
Specific density:	7,85 kg/dm ³

10 Stability and chemical activity

On normal environmental conditions steel fiber is a stable product. There is no risk of ignition or explosion. The product shouldn't be in contact with moisture, acids and other agents affecting metal corrosion.

11 Toxicity

There is no data about toxicity of the product.

During the prolonged and frequent contact with steel fiber skin irritation is theoretically possible for people with skin sensitive to some components of the product. But there are no references to such cases in special literature.

12 Environmental impact

Steel fiber is a secure product in case of correct application, storage and utilization. Steel fiber is stable in normal condition and it virtually doesn't decompose.

13. Utilization and waste disposal

To utilize according to the Legislative regulations of consumer's country.

14 Rules of transportation

Safety data sheet according to REACH - Provision (EC) № 1907/2006.

This product is not dangerous during international transportation (by land, by sea, by air).

In accordance with the criteria of EC Directive 67/548/EEC and corresponding annexes marking is not required.

15 Normative information

According to the Directive, this product is not classified as dangerous.

According to the Directive 67/548/EEC and its Modifications steel fiber is a product (finished product); it is not a substance or agent.

16 Additional information

In the quality certificate.

This document has the information about safety, health, hygiene and ecology; it's catered for people who work with steel fiber.

This information is based on our knowledge and may be used for exact maintenance of safety measures while using steel fiber.

The information provided in this document does not guarantee quality parameters of the product.

OJSC «BSW- management company of "BMC" holding» bears no responsibility for incorrect use of steel fiber and/or this information.

Chief of Technical department



S.V. Terletski

Coordinated with:

Deputy chief engineer on LP Dpt, IS Dpt and environment protection department



V.V. Efimenko