

Material Safety Data Sheet	№ 9 / 3 /DS-2009	Date: 15.12.2009
Reinforcing steel bar		Revision: 3
		Date of revision: 05.02.2016
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1. Identification of material and company details	
1.1 Commercial name:	Reinforcing steel bar
1.2 Application:	For reinforcement of ferroconcrete 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:	Reinforcing steel bar is steel wire with three- sided die-rolled rib section (crescent-shaped)
2.2 Chemical composition of steel for manufacturing of reinforcing steel bar :	
Element	Mass concentration of element, %
Iron, not less	96,0
Carbon, not more	0,24
Manganese, not more	1,70
Silicon, not more	0,95
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:	no
3.4 Physical configuration:	solid material
3.5 Odour:	no
3.6 Potential hazards for health	
Influence:	Protective measures:
Inhalation	no
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:	no
6 Measures during spillage or leakage	
6.1 Personal protection:	no
6.2 Environmental protection:	no
6.3 Cleaning / absorption / neutralization:	no

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12.02.2016 *[Signature]*

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.

8 Safety measures**8.1 Engineering measures:**

Small flying particles produced during welding, cutting, grinding and annealing of reinforcing steel bar can cause injury of eyes.

8.2 Maximum-allowable concentrations of substances

Sanitary standards, norms and hygienic regulations 'List of restricted harmful substances in the air of the work area'

Substance designation**Max.-allowable concentration, one-time, (mg/m³)**

Carbon oxide 20

Nitrogen dioxide 2,0

Amorphous silicon dioxide mixed with 3,0

manganese oxide in the form of condensation aerosol and the content of each one is not more than 10%

Content of manganese in welding fumes:

to 20% 0,6

20% to 30% 0,3

Dichromium trioxide 3,0

Copper 1,0

Nickel, nickel oxides 0,05

Fe 10 (daily average concentration)

8.3 Equipment for personal protection**Hands protection**

Protective gloves are to be used while working with reinforcing steel bar.

Eyes protection

Protective spectacles are to be used while working with reinforcing steel bar.

9 Chemical and physical properties

Physical state: solid

Colour: steel

Odour: no

pH: not applicable

Melting point: 1530-1538°C (2786-2800°Φ)

Flash point: not applicable

Explosive characteristic: not applicable

Water solubility: insoluble

Specific density: 7,85 kg/dm³

10 Stability and chemical activity

On normal environmental conditions reinforcing steel bar is 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 to corrosion.

11 Toxicity

There is no data about the toxicity of the product.

Inhalation of smoke fumes while welding, cutting, grinding and annealing of reinforcing steel bar can cause eyes and respiratory apparatus irritation if the ventilation system and respirator are not used. During the prolonged and frequent contact with reinforcing steel bar in coils 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

Reinforcing steel bar is a secure product in case of correct application, storage and utilization.

Reinforcing steel bar is stable in normal condition and it virtually training doesn't decompose.

13. Utilization and waste disposal

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

Reinforcing steel bar may be used repeatedly.

14 Rules of transportation

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 reinforcing steel bar 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 reinforcing steel bar.

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

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 reinforcing steel bar 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

