

Conforms to EC Regulation 1272/2008 and EU Regulation 453/2010

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Product identifier Product name Registration number Relevant identified uses of the substance or mixture and uses advised against Intended use Details of the supplier of the safety data sheet Name Full address, district and country Telephone number Fax number e-mail address of the competent person	Steel billets for reinforced concrete Not necessary. ORI Martin S.p.A. is a secondary producer of steel, because it recover substances from scrap metal. It benefits from the exemption in Article 2.7 (d) of EC Regulation 1907/2006 "REACH". Steel billets for reinforced concrete ORI MARTIN SPA Via Cosimo Canovetti, 13 25128 BRESCIA +39 030 39991 +39 030 2000924		
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Telephone number Fax number	25128 BRESCIA +39 030 39991		
Fax number	+39 030 39991		
Fax number			
	+39 030 2000924		
e-mail address of the competent person			
responsible for the Safety Data Sheet	info@orimartin.it		
	ORI MARTIN SPA		
Linergency telephone number	Telephone exchange: +39 030 39991 (H24)		
Physical/chemical hazards	None.		
Human health hazards	Under normal conditions, steel in solid form does not present any danger. Hazardous substances in the alloy are linked with metallic bonds. No episodes of toxic effects have been reported for solid form, both during supply and normal use of the product.		
	The possible formation of vapors or dust during working processes of the material may increase the risk of inhalation and skin contact with hazardous substances.		
	Some substances are known to be toxic and carcinogenic in humans beings, but in a different form than the metallic bond.		
Environmental hazards	None.		
Classification of the substance or mixture			
The product is not classified as hazardous pursuant to the provisions set forth in 67/548/EEC and 1999/45/EC Directives and following amendments and adjustments and EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). However, cause the product contains dangerous substances in such concentration to be declared in section 3, it thus requires a safety data sheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments.			
Regulation 1272/2008 (CLP) and following amendments and adjustments			
Not applied.			
67/548/EEC and 1999/45/EC Directives and following amendments and adjustments			
Danger Symbols	-		
R phrases	-		
The full wording of the Risk (R) phrases is given in section 16 of the sheet.			
Label elements			
	Environmental hazards Classification of the substance or mixture The product is not classified as hazardous pursuar Directives and following amendments and adjustm amendments and supplements). However, cause t concentration to be declared in section 3, it thus re of EC Regulation 1907/2006 and subsequent ame Regulation 1272/2008 (CLP) and following amendments and adjustments Not applied. 67/548/EEC and 1999/45/EC Directives and following amendments and adjustments Danger Symbols R phrases The full wording of the Risk (R) phrases is given in		



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	following amendments	s and adiustments.				
	Hazard pictograms					
			-			
			-			
2.3	Altri pericoli		Inforn	nation not available.		
3	Composition/information on ingredien					
3.1	Substances Information not relevant.					
3.2	Mixtures					
	Contains:					
	Identification Conc. %.			Classification Classification 1272/2008 67/548/EEC (CLP)		
	Alloy steel containing hazardous substances with metallic bonds	Iron (Fe): min 95.59% Carbon (C): 0.15 / 0.24 % Sulfur (S): max 0.055 % Phosphorus (P): max 0.055 Manganese (Mn): 0.50 / 1,4 Copper (Cu): max 0.85 % Silica (Si): max 0.50 % Chromium (Cr): max 0.50 % Molybdenum (Mo): max 0.050 % Molybdenum (Mo): max 0.07 % Vanadium (V): max 0,075 % Niobium (Nb): max 0,055 % Nitrogen (N): max 0.013 %	0 % 5 %			
	The full wording of the Risk (R) and hazard (H) phr		rases is	given in section 16 o	f the sheet.	
4	First aid measures					
4.1	Description of first aid measures					
			the product have been reported. However, in the presence of general measures should be adopted as necessary: Wash with plenty of water (held eyelids open and remove contact lenses). If symptoms persist, seek medical advice.			
	Skin		Wash affected areas with soap and water. Remove contaminated clothing. If symptoms persist, get medical advice/attention.			
	Inhalation			Inhalation of dust or fumes: remove subject to open air. Blow your nose repeatedly. If symptoms persist, get medical advice/attention.		
	Ingestion		Rinse mouth with water. If symptoms persist, get medical advice/attention.			
4.2	Most important symptoms and effects, both acute and delayed		For symptoms and effects caused by the contained substances, see section 11.			
4.3		Indication of any immediate medical attention and special treatment needed		Get medical advice/attention.		
5	Firefighting mea	sures				
			powde explosi ignite	ers dispersed in the ai sion. The molten meta	ole. However, the metal r can cause a risk of fire and l, at high temperature, can s. Avoid any source of heat city).	
5.1	Extinguishing media	1				
	Suitable extinguishing	gequipment	Powd	er extinguisher.		
	Unsuitable extinguish	ing equipment	Wate			
5.2	Special hazards aris					



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	Hazards caused by exposure in the event of fire	In case of fire, thermal decomposition or incomplete combustion may cause gases and vapors potentially dangerous to health.	
5.3	Advice for firefighters		
	General information	- In case of fire, wear suitable protective equipment	
	Special protective equipment for fire-fighters	(protective clothing and breathing apparatus).	
		- Send away unprotected people.	
6	Accidental release measures		
6.1	Personal precautions, protective equipment and emergency procedures	 In case of formation of vapors or dust adopt respiratory protection. 	
		- Avoid contact with eyes and skin.	
6.2	Environmental precautions	 The material does not present particular risk to the environment. However, for accidental release, collect material with suitable tools. 	
		- The product must not penetrate into the sewer system or come into contact with surface water or ground water.	
6.3	Methods and material for containment and	- Collect the product mechanically or manually.	
	cleaning up	 Disposal of contaminated material must be done in accordance with the provisions of section 13. 	
6.4	Reference to other sections	Any information on personal protection and disposal is given in sections 8 and 13.	
7	Handling and storage		
7.1	Precautions for safe handling	 Solid form (billets) presents no problems for handling and storage except for accident prevention (crushing, cutting, striking during working processes of the material). 	
		- Do not eat, drink or smoke during use.	
7.2	Conditions for safe storage, including any	- Normal storage without particular incompatibilities.	
	incompatibilities	- As indication, store in a dry place, preferably indoors.	
7.3	Specific end use(s)	Information not available.	
8	Exposure controls/personal protection		
8.1	Control parameters		
	Threshold Limit Value	There are no exposure limits for steel products. The limits are only applicable for certain constituents of the steel (alloy materials such as chromium, nickel, manganese, silica, molybdenum, etc.). These elements are not normally present during common use but may develop in the form of gas and dust during the working processes such as cutting, fusion, rolling of the material.	
		According to ACGIH 2011, TLW-TVA-8h are:	
		Iron (as oxide, dust and fumes): 5 mg/m3	
		Manganese e inorganic compounds (as Mn): 0.2 mg/m3	
		Chromium metal and chromium III: A4 0.5 mg/m3	
		Chromium VI (water soluble compounds): A1 0.05 mg/m3	
		Chromium VI (insoluble compounds): A1 0.01 mg/m3	
		Nickel (metal): A5 1.5 mg/m3	
		Nichel (soluble inorganic compounds): A4 0.1 mg/m3	
		Nichel (insoluble inorganic compounds): A1 0.2 mg/m3	
		Molybdenum (insoluble compounds and metal): 10 mg/m3	
		Molybdenum (soluble compounds): A3 0.5 mg/m3	
		Vanadium (as pentoxide, dust and fumes): A3 0.05 mg/m3 Silica (as crystalline silica): A2 0.025 mg/m3	



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9.2	Other information		
	Oxidising properties	Not applicable	
	Explosive properties	Not applicable	
	Viscosity	Not determined	
	Decomposition temperature	Not determined	
	Auto-ignition temperature	Not applicable	
	Partition coefficient: n-octanol/water	Not applicable	
	Solubility	Not soluble in water and organic solvents	
	Relative density	7.7 – 8.1 g/cm3 (according to steel's types)	
	Vapour density	Not applicable	
	Vapour pressure	Not applicable	
	Lower inflammability limit / Upper inflammability limit	Non infiammabile	
	Flammability of solids and gases	Not flammable	
	Evaporation Rate	Not applicable	
	Flash point	Not combustible, not flammable (if not fine powder)	
	Initial boiling point or Boiling range	Not applicable	
	Melting point / freezing point	1400-1550°C (according to steel's types)	
	рН	Not determined	
	Odour threshold	Not determined	
	Odour	Odourless	
	Colour	Silver-gray, metallic	
	Appearance	Solid (billet)	
9.1	Information on basic physical and chemical properties		
9	Physical and chemical properties	Physical and chemical properties	
		- Wear suitable protective gloves.	
	Individual protection	- Wear safety glasses in case of dust formation.	
		- Adopt a respiratory protection in case of emergency with filter type P2 or P3 (for powders), type B2P2 or B3P3 (for fumes).	
	Respiratory protection	If necessary, whether in the presence of dust or fumes, wear suitable respiratory protective equipment (gas masks and filtering face).	
		It's necessary local dust and fumes aspiration to ensure threshold limit value and air quality.	
		We recommend you change clothes that have absorbed the dust and fumes possibly formed during processing of the material. Use separate closets for clothing and shoes at work.	
		- Wash hands before breaks and after work.	
	Precautionary measures	Keep away from food, drink. Do not eat, drink or smoke during use.	
8.2	Exposure controls	g	
		Sulfur (sulfur dioxide): A4 TLV-STEL = 0.25 ppm = 0.66 mg/m3	
		Copper (dusts and mists): 1 mg/m3	
		Copper (fumes): 0.2 mg/m3	



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	Molecular weight	Not determined		
10	Stability and reactivity			
10.1	Reactivity	There are no particular risks of reaction with other substances in normal conditions of use.		
10.2	Chemical stability	The product is stable in normal conditions of use and storage.		
10.3	Possibility of hazardous reactions	No hazardous reactions are foreseeable in normal conditions of use and storage.		
10.4	Conditions to avoid	 Avoid the formation of dust: metal powders dispersed in the air can cause a risk of fire and explosion. 		
		- The molten metal, at high temperature, can ignite combustible materials. Avoid any source of heat (flame, sparks, static electricity).		
10.5	Incompatible materials	None in particular.		
10.6	Hazardous decomposition products	In case of thermal decomposition or fire, it may release gases and vapors potentially dangerous to health.		
11	Toxicological information			
11.1	Information on toxicological effects			
	Potenziali effetti sulla salute	No episodes of health damage due to exposure to the product have been reported. Sold solid form don't cause health risk. However it is recommended to operate within the rules of good industrial hygiene.		
	Inalazione	Information not available.		
	Contatto con la pelle	Information not available.		
	Contatto con gli occhi	Information not available.		
	Ingestione	Information not available.		
	Effetti cronici	Information not available.		
12	Ecological information			
12.1	Toxicity	 Use this product according to good working practices. Avoid leakage of the product into the environment. 		
		 No episodes of environmental damage have been reported. Solid form don't cause problems. 		
12.2	Persistence and degradability	Information not available.		
12.3	Bioaccumulative potential	Information not available.		
12.4	Mobility in soil	Information not available.		
12.5	Results of PBT and vPvB assessment	Information not available.		
12.6	Other adverse effects	Information not available.		
13	Disposal considerations			
13.1	Waste treatment methods Transport information	 Reuse, when possible. Product residues should be considered special non hazardous waste. 		
		 Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. 		
		 Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations. 		
		- Avoid the product reach waterways or sewers.		
14	Transport information			
		rovisions of the Code of International Carriage of Dangerous ne International Maritime Dangerous Goods Code (IMDG), and (IATA) regulations.		



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	Note: If delivered hot, the product can fall in Class 9 of the ADR (section 2.2.9.1.13 of ADR 2007): Substan delivered hot includes substances carried or handed in liquid state at a temperature equal or higher than 10 C, and those having a flash point, at a temperature lower than their flash point. They also include solids who carried or handed at temperatures equal to or greater than 240 ° C.		
15	Regulatory information		
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture		
	Seveso category	None.	
	Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006	Point 27 (Nickel alloy steels)	
	Substances in Candidate List (Art. 59 REACH)	None.	
	Substances subject to authorisarion (Annex XIV REACH)	None.	
	Healthcare controls	Information not available.	
15.2	Chemical safety assessment	No chemical safety assessment has been processed for the mixture and the substances it contains	
16	Other information		
	Text of hazard (H) indications mentioned in section 3 of the sheet	-	
	Text of risk (R) phrases mentioned in section 2-3 of the sheet	-	
	Note for users	 Directive 1999/45/EC and following amendments Directive 67/548/EEC and following amendments and adjustments Regulation (EC) 1907/2006 (REACH) of the European Parliament Regulation (EC) 1272/2008 (CLP) of the European Parliament Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament Regulation (EC) 453/2010 of the European Parliament The Merck Index. Ed. 10 The Merck Index. Ed. 10 Handling Chemical Safety Niosh - Registry of Toxic Effects of Chemical Substances INRS - Fiche Toxicologique Patty - Industrial Hygiene and Toxicology N.I. Sax - Dangerous properties of Industrial Materials-7 Ed., 1989 Material safety data sheet CALCE IDRATA SPENTA – rev. 1 of november 2010 (Unicalce S.p.a.) Material safety data sheet GARDOBOND Z 3400 E 4 – rev. 5 of 4th november 2010 (Chemetall Italia S.r.I.) Material safety data sheet GARDOLUBE L6186 – rev. 1 of 15th june 2010 (Chemetall Italia S.r.I.) Product for industrial uses, not expected to be sold 	
	Note for users	 Product for industrial uses, not expected to be sold freely. The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product. This document must not be regarded as a guarantee on 	



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	any specific product property.
	- The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.
	- Observe the safety instructions.
	- Provide appointed staff with adequate training on how to use chemical products.
Information on present re	Every section of the present sheet has been reviewed for updating safety, health and environmental legislation and informations.
	In particular, have been revised content and form required for the Safety Data Sheet in accordance with the amendments to EC Regulation 1907/2006 occurred with the entry into force of EU Regulation 453/2010. The present sheet was prepared in accordance with Annex I of EU Regulation 453/2010, pursuant to Article 61 (paragraph 1) of EC Regulation 1272/2008.
Changes to previous rev	ew All sections.