



**O.R.I. MARTIN**  
ACCIAIERIA E FERRIERA  
DI BRESCIA S.P.A.

# MATERIAL SAFETY DATA SHEET

## WIRE ROD AND BAR SPECIAL STEELS

*In accordance with Regulation (EC) 1907/2006 Art. 31  
and Regulation (EU) 2015/830*

Revision nr 2  
Dated 3<sup>th</sup> september 2018  
Page 1 di 8

<b>1 Identification of the substance/mixture and of the company/undertaking</b>	
<b>1.1</b>	<b>Product identifier</b>
	Product name
	Registration number
	Wire rod and bar special steels
	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".
<b>1.2.</b>	<b>Relevant identified uses of the substance or mixture and uses advised against</b>
	Intended use
	Special steel rolls or bars
<b>1.3</b>	<b>Details of the supplier of the safety data sheet</b>
	Name
	ORI MARTIN SPA
	Full address, district and country
	Via Cosimo Canovetti, 13 25128 BRESCIA
	Telephone 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
<b>1.4</b>	<b>Emergency telephone number</b>
	ORI MARTIN SPA Telephone exchange: +39 030 39991 (H24)
<b>2 Hazards identification</b>	
	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.
<b>2.1</b>	<b>Classification of the substance or mixture</b>
	The product is not classified as hazardous pursuant to the provisions set forth in Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and supplements). However, cause the product contains dangerous substances in such concentration to be declared in section 3 and 8, it thus requires a safety data sheet that complies with the provisions of Regulation (EC) 1907/2006 and subsequent amendments.
<b>2.1.1</b>	<b>Regulation 1272/2008 (CLP) and following amendments and adjustments</b>
	-
	The full wording of the Hazard statements (H) phrases is given in section 16 of the sheet.
<b>2.2</b>	<b>Label elements</b>
	This product is not subject to hazard labeling pursuant to Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and supplements).
	Hazard pictograms
	-
	Signal word
	-
	Hazard statements
	-
	Precautional statements
	-
<b>2.3</b>	<b>Altri pericoli</b>
	Information not available.



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Revision nr 2  
Dated 3<sup>th</sup> september 2018  
Page 2 di 8

3 Composition/information on ingredients		
3.1	Substances	Information not relevant.
3.2	Mixtures	
	Contains:	
	<b>Identification</b>	<b>Conc. %.</b>
	Alloy steel containing hazardous substances with metallic bonds	Iron (Fe) – CAS:7439-89-6, CE:231-096-4: 74.30 / 99.61% Carbon (C) – CAS://, CE: 931-328-0: 0.01 / 1.5 % Sulfur (S) – CAS: 7704-34-9, CE: 231-722-6: 0.001 / 0.5 % Phosphorus (P) – CAS: 7723-14-0, CE: 231-768-7: 0.001 / 0.1 % Manganese (Mn) – CAS:7439-96-5, CE: 231-105-1: 0.2 / 4 % Silica (Si) – CAS: 7440-21-3, CE:231-130-8: 0.01 / 5 % Copper (Cu) – CAS: 7440-50-8, CE:231-159-6: 0.01 / 0.9 % Tin (Sn) – CAS: 7440-31-5, CE:231-141-8: 0.001 / 0.05 % Chromium (Cr) – CAS: 7440-47-3, CE:231-157-5: 0.01 / 9 % Nickel (Ni) – CAS: 7440-02-0, CE:231-111-4: 0.01 / 5 % Molybdenum (Mo): – CAS: 7439-98-7, CE 231-107-2: 0.01 / 2 % Aluminium (Al) – CAS: 7429-90-5, CE: 231-072-3: 0.001 / 0.1 % Boron (B) – CAS: 7440-42-8, CE: 231-151-2: 0.0001 / 0.1 % Titanium (Ti) – CAS: 7440-32-6, CE: 231-142-3: 0.001 / 0.1 % Calcium (Ca) – CAS: 7440-70-2, CE: 231-179-5: 0.0001 / 0.005 % Arsenic (As) – CAS: 7440-38-2, CE: 231-148-6: 0.001 / 0.01 % Lead (Pb) – CAS: 7439-92-1, CE: 231-100-4: 0.0001 / 0.01 % Wolframium (W) – CAS: 7440-33-7, CE: 231-143-9: 0.01 / 0.05 % Cobalt (Co) – CAS: 7440-48-4, CE: 231-158-0: 0.005 / 0.02 % Vanadium (V) – CAS: 7440-2-2, CE: 231-171-1: 0.01 / 0.1 % Niobium (Nb) – CAS: 7440-03-1, CE: 231-113-5: 0.001 / 0.5 % Tellurium (Te) – CAS: 13495-80-9, CE: 236-813-4: 0.0001 / 0.01 % Antimony (Sb) – CAS: 7440-36-0, CE: 231-146-5: 0.0001 / 0.01 % Cerium (Ce) – CAS: 7440-45-1, CE: 231-154-9: 0.0001 / 0.001 % Magnesium (Mg) – CAS: 7439-95-4, CE: 231-104-6: 0.0001 / 0.0005 % Selenium (Se) – CAS: 7782-49-2, CE: 231-957-4: 0.0001 / 0.003 % Zinc (Zn) – CAS: 7440-66-6, CE: 231-175-3: 0.0001 / 0.004 % Zirconium (Zr) – CAS: 7440-67-7, CE: 231-176-9: 0.0001 / 0.001 % Mercury (Hg) – CAS: 7439-97-6, CE: 231-106-7: 0 / 0.0005 % Cadmium (Cd) – CAS: 7440-43-9, CE: 231-152-8: 0 / 0.0001 % Nitrogen (N) – CAS: 7727-37-9, CE: 231-783-9: 0.002 / 0.02 % Bismuth (Bi) – CAS: 7440-69-9, CE: 231-177-4: 0.001 / 0.2 %
	The full wording of the Hazard statements (H) phrases is given in section 16 of the sheet.	
4 First aid measures		
4.1	Description of first aid measures	
	No episodes of harm to the staff authorised to use the product have been reported. However, in the presence of dust or fumes due to metal working, the following general measures should be adopted as necessary:	
	Eyes	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 measures		
	The material is not flammable. However, the metal powders dispersed in the air can cause a risk of fire and	



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Revision nr 2  
Dated 3<sup>th</sup> september 2018  
Page 3 di 8

		explosion. The molten metal, at high temperature, can ignite combustible materials. Avoid any source of heat (flame, sparks, static electricity).
<b>5.1</b>	<b>Extinguishing media</b>	
	Suitable extinguishing equipment	Powder extinguisher.
	Unsuitable extinguishing equipment	Water.
<b>5.2</b>	<b>Special hazards arising from the substance or mixture</b>	
	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.
<b>5.3</b>	<b>Advice for firefighters</b>	
	General information Special protective equipment for fire-fighters	- In case of fire, wear suitable protective equipment (protective clothing and breathing apparatus). - Send away unprotected people.
<b>6</b>	<b>Accidental release measures</b>	
<b>6.1</b>	<b>Personal precautions, protective equipment and emergency procedures</b>	- In case of formation of vapors or dust adopt respiratory protection. - Avoid contact with eyes and skin.
<b>6.2</b>	<b>Environmental precautions</b>	- 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.
<b>6.3</b>	<b>Methods and material for containment and cleaning up</b>	- Collect the product mechanically or manually. - Disposal of contaminated material must be done in accordance with the provisions of section 13.
<b>6.4</b>	<b>Reference to other sections</b>	Any information on personal protection and disposal is given in sections 8 and 13.
<b>7</b>	<b>Handling and storage</b>	
<b>7.1</b>	<b>Precautions for safe handling</b>	- Solid form (rolls, bars) 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.
<b>7.2</b>	<b>Conditions for safe storage, including any incompatibilities</b>	- Normal storage without particular incompatibilities. - As indication, store in a dry place, preferably indoors.
<b>7.3</b>	<b>Specific end use(s)</b>	Information not available.
<b>8</b>	<b>Exposure controls/personal protection</b>	
<b>8.1</b>	<b>Control parameters</b>	
	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.
	<u>National occupational exposure limit values</u>	Information not available.
	<u>Union limit values</u>	OEL EU Manganese e inorganic compounds (as Mn): TLV-TWA/8h: 0.2 mg/m <sup>3</sup> (inhalable fraction), 0.05 mg/m <sup>3</sup> (respirable fraction)



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*In accordance with Regulation (EC) 1907/2006 Art. 31  
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Revision nr 2  
Dated 3<sup>th</sup> september 2018  
Page 4 di 8

		<p><u>Crystalline silica powder:</u> TLV-TWA/8h: 0,1 mg/m<sup>3</sup> (frazione inalabile)</p>
	<u>Other occupational exposure limit values</u>	<p>TLV-TWA-8h (ACGIH, 2018) are:</p> <p><u>Iron (as Fe<sub>2</sub>O<sub>3</sub>):</u> 5 mg/m<sup>3</sup> (respirable fraction)</p> <p><u>Manganese e inorganic compounds (as Mn):</u> 0.2 mg/m<sup>3</sup> (inhalable fraction), 0.1 mg/m<sup>3</sup> (respirable fraction)</p> <p><u>Chromium metal:</u> A4 0.5 mg/m<sup>3</sup> (inhalable fraction)</p> <p><u>Chromium III (water soluble compounds):</u> A4 0.003 mg/m<sup>3</sup> (inhalable fraction)</p> <p><u>Chromium VI (water soluble compounds):</u> A1 0.0002 mg/m<sup>3</sup> (inhalable fraction)</p> <p><u>Nickel (metal):</u> A5 1.5 mg/m<sup>3</sup> (inhalable fraction)</p> <p><u>Nichel (soluble inorganic compounds):</u> A4 0.1 mg/m<sup>3</sup> (inhalable fraction)</p> <p><u>Nichel (insoluble inorganic compounds):</u> A1 0.2 mg/m<sup>3</sup> (inhalable fraction)</p> <p><u>Molybdenum (insoluble compounds and metal):</u> 10 mg/m<sup>3</sup> (inhalable fraction), 3 mg/m<sup>3</sup> (respirable fraction)</p> <p><u>Molybdenum (soluble compounds):</u> A3 0.5 mg/m<sup>3</sup> (respirable fraction)</p> <p><u>Vanadium (as pentoxide, dust and fumes):</u> A3 0.05 mg/m<sup>3</sup> (inhalable fraction)</p> <p><u>Silica (as crystalline silica):</u> A2 0.025 mg/m<sup>3</sup> (respirable fraction)</p> <p><u>Copper (fumes):</u> 0.2 mg/m<sup>3</sup></p> <p><u>Copper (dusts and mists):</u> 1 mg/m<sup>3</sup></p> <p><u>Sulfur (sulfur dioxide) :</u> A4 TLV-STEL: 0.25 ppm = 0.66 mg/m<sup>3</sup>(respirable fraction)</p>
	Biological limit values	Information not available.
	DNELs	Information not available.
	PNECs	Information not available.
	Recommended monitoring procedures	<p>The product contains components with exposure limits, personal monitoring of the atmosphere in the work environment and biological may be required to determine the effectiveness of ventilation or other control measures and / or the need to use respiratory protective equipment . Refer to the monitoring standards, such as the following:</p> <ul style="list-style-type: none"> <li>• European standard EN 689 (Atmosphere in the workplace - Guidance on the evaluation of exposure by inhalation to chemical compounds for the purpose of comparison with limit values and measurement strategy)</li> <li>• European standard EN 14042 (Atmospheres in the workplace - Guide to the application and use of procedures for the assessment of exposure to chemical and biological agents)</li> <li>• European standard EN 482 (Atmospheres in the working environment - General requirements for the performance of procedures for the measurement of chemical agents)</li> </ul> <p>Reference should also be made to national guidance documents on methods for the determination of hazardous substances.</p>
<b>8.2</b>	<b>Exposure controls</b>	
	Precautionary measures	- Keep away from food, drink. Do not eat, drink or smoke during use.



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and Regulation (EU) 2015/830*

Revision nr 2  
Dated 3<sup>th</sup> september 2018  
Page 5 di 8

		<ul style="list-style-type: none"> <li>- Wash hands before breaks and after work.</li> <li>- 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.</li> <li>- It's necessary local dust and fumes aspiration to ensure threshold limit value and air quality.</li> </ul>
	Eye/face protection	<ul style="list-style-type: none"> <li>- Wear safety glasses in case of dust formation (see UNI EN 402 standard).</li> </ul>
	Skin protection	<ul style="list-style-type: none"> <li>- Use suitable work clothes and safety shoes (see EN ISO 20344 standard).</li> </ul>
	Hand protection	<ul style="list-style-type: none"> <li>- Wear suitable protective gloves (see UNI EN 374 standard). The following must be considered for the final choice of the glove material: compatibility, degradation, break time and permeation. The process of using the product and any other products deriving from it must also be evaluated. The gloves have a wear time that depends on the duration of exposure and how to use it.</li> </ul>
	Respiratory protection	<ul style="list-style-type: none"> <li>- If necessary, whether in the presence of dust or fumes, wear suitable respiratory protective equipment (gas masks and filtering face). (see UNI EN 149 standard)</li> <li>- Adopt a respiratory protection in case of emergency with filter type P2 or P3 (for powders), type B2P2 or B3P3 (for fumes).</li> </ul>
	Thermal hazard	None.
	Environmental exposure controls	Do not dispose of the product in the environment.
<b>9</b>	<b>Physical and chemical properties</b>	
<b>9.1</b>	<b>Information on basic physical and chemical properties</b>	
	Appearance	Solid (roll, bar)
	Colour	Silver-gray, metallic
	Odour	Odourless
	Odour threshold	Not determined
	pH	Not determined
	Melting point / freezing point	1400-1550°C (according to steel's types)
	Initial boiling point or Boiling range	Not applicable
	Flash point	Not combustible, not flammable (if not fine powder)
	Evaporation Rate	Not applicable
	Flammability of solids and gases	Not flammable
	Lower inflammability limit / Upper inflammability limit	Non infiammabile
	Vapour pressure	Not applicable
	Vapour density	Not applicable
	Relative density	7.7 – 8.1 g/cm <sup>3</sup> (according to steel's types)
	Solubility	Not soluble in water and organic solvents
	Partition coefficient: n-octanol/water	Not applicable
	Auto-ignition temperature	Not applicable
	Decomposition temperature	Not determined
	Viscosity	Not determined
	Explosive properties	Not applicable



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and Regulation (EU) 2015/830*

Revision nr 2  
Dated 3<sup>th</sup> september 2018  
Page 6 di 8

	Oxidising properties	Not applicable
<b>9.2</b>	<b>Other information</b>	
	Molecular weight	Not determined
<b>10</b>	<b>Stability and reactivity</b>	
<b>10.1</b>	<b>Reactivity</b>	There are no particular risks of reaction with other substances in normal conditions of use.
<b>10.2</b>	<b>Chemical stability</b>	The product is stable in normal conditions of use and storage.
<b>10.3</b>	<b>Possibility of hazardous reactions</b>	No hazardous reactions are foreseeable in normal conditions of use and storage.
<b>10.4</b>	<b>Conditions to avoid</b>	<ul style="list-style-type: none"><li>- Avoid the formation of dust: metal powders dispersed in the air can cause a risk of fire and explosion.</li><li>- The molten metal, at high temperature, can ignite combustible materials. Avoid any source of heat (flame, sparks, static electricity).</li></ul>
<b>10.5</b>	<b>Incompatible materials</b>	None in particular.
<b>10.6</b>	<b>Hazardous decomposition products</b>	In case of thermal decomposition or fire, it may release gases and vapors potentially dangerous to health.
<b>11</b>	<b>Toxicological information</b>	
<b>11.1</b>	<b>Information on toxicological effects</b>	
	Potential health effects	No episodes of health damage due to exposure to the product have been reported. Solid form don't cause health risk. However it is recommended to operate within the rules of good industrial hygiene.
	Acute toxicity	Information not available.
	Skin corrosion/irritation	Based on the available data, the classification criteria are not met, as the product does not contain components classified as dangerous for this effect. For more information see section 3.
	Serious eye damage/irritation	Based on the available data, the classification criteria are not met, as the product does not contain components classified as dangerous for this effect. For more information see section 3.
	Respiratory or skin sensitisation	Based on the available data, the classification criteria are not met, as the product does not contain components classified as dangerous for this effect. For more information see section 3.
	Germ cell mutagenicity	Based on the available data, the classification criteria are not met, as the product does not contain components classified as dangerous for this effect. For more information see section 3.
	Carcinogenicity	Based on the available data, the classification criteria are not met, as the product does not contain components classified as dangerous for this effect. For more information see section 3.
	Reproductive toxicity	Based on the available data, the classification criteria are not met, as the product does not contain components classified as dangerous for this effect. For more information see section 3.
	STOT-single exposure	Based on the available data, the classification criteria are not met, as the product does not contain components classified as dangerous for this effect. For more information see section 3.
	STOT-repeated exposure	Based on the available data, the classification criteria are not met, as the product does not contain components



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and Regulation (EU) 2015/830*

Revision nr 2  
Dated 3<sup>th</sup> september 2018  
Page 7 di 8

		classified as dangerous for this effect. For more information see section 3.
	Aspiration hazard	Based on the available data, the classification criteria are not met, as the product does not contain components classified as dangerous for this effect. For more information see section 3.
	Possible route of exposure	Dermal contact.
	Symptoms related to the physical, chemical and toxicological characteristics	Information not available.
	Delayed and immediate effects as well as chronic effects from short and long term exposure	Information not available.
	Interactive effects	Information not available.
<b>12</b>	<b>Ecological information</b>	
<b>12.1</b>	<b>Toxicity</b>	<ul style="list-style-type: none"><li>- Use this product according to good working practices. Avoid leakage of the product into the environment.</li><li>- No episodes of environmental damage have been reported. Solid form don't cause problems.</li></ul>
<b>12.2</b>	<b>Persistence and degradability</b>	Information not available.
<b>12.3</b>	<b>Bioaccumulative potential</b>	Information not available.
<b>12.4</b>	<b>Mobility in soil</b>	Information not available.
<b>12.5</b>	<b>Results of PBT and vPvB assessment</b>	Information not available.
<b>12.6</b>	<b>Other adverse effects</b>	Information not available.
<b>13</b>	<b>Disposal considerations</b>	
<b>13.1</b>	<b>Waste treatment methods Transport information</b>	<ul style="list-style-type: none"><li>- Reuse, when possible. Product residues should be considered special non hazardous waste.</li><li>- Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.</li><li>- Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.</li><li>- Avoid the product reach waterways or sewers.</li></ul>
<b>14</b>	<b>Transport information</b>	
	The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.	
<b>14.1</b>	<b>UN number</b>	Not applicable.
<b>14.2</b>	<b>UN proper shipping name</b>	Not applicable.
<b>14.3</b>	<b>Transport hazard classes</b>	Not applicable.
<b>14.4</b>	<b>Packing group</b>	Not applicable.
<b>14.5</b>	<b>Environmental hazards</b>	Not applicable.
<b>14.6</b>	<b>Special precautions for user</b>	Not applicable.
<b>14.7</b>	<b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
	Note: If delivered hot, the product can fall in Class 9 of the ADR (section 2.2.9.1.13 of ADR 2007): Substances delivered hot includes substances carried or handed in liquid state at a temperature equal or higher than 100 ° C, and those having a flash point, at a temperature lower than their flash point. They also include solids which carried or handed at temperatures equal to or greater than 240 ° C.	
<b>15</b>	<b>Regulatory information</b>	
<b>15.1</b>	<b>Safety, health and environmental regulations/legislation specific for the</b>	



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Revision nr 2  
Dated 3<sup>th</sup> september 2018  
Page 8 di 8

<b>substance or mixture</b>		
	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 authorisation (Annex XIV REACH)	None.
	Healthcare controls	Information not available.
<b>15.2</b>	<b>Chemical safety assessment</b>	No chemical safety assessment has been processed for the mixture and the substances it contains
<b>16</b>	<b>Other information</b>	
	Text of hazard (H) indications mentioned in section 3 of the sheet	-
	General bibliography	Regulation (EC) 1907/2006 (REACH) of the European Parliament and subsequent amendments and supplements Regulation (EC) 1272/2008 (CLP) of the European Parliament and subsequent amendments and supplements Regulation (EU) 2015/830 of the European Parliament The Merck Index 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 ACGIH - Threshold limit values ECHA web site
	Note for users	<ul style="list-style-type: none"><li>- Product for industrial uses, not expected to be sold freely.</li><li>- 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.</li><li>- This document must not be regarded as a guarantee on any specific product property.</li><li>- 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.</li><li>- Observe the safety instructions.</li><li>- Provide appointed staff with adequate training on how to use chemical products.</li></ul>
	Information on present review	This safety data sheet has been prepared in accordance with Annex II of Regulation (EC) 1907/2006, as amended by Regulation (EU) 2015/830.
	Changes to previous review	Sections 2, 3, 8, 11, 16.