

ABX Pentra Iron CP	A91A00567DEN	15/12/2009
---------------------------	---------------------	-------------------

1. Product and company identification	
1.1. Identification of the product	
Product name:	ABX Pentra Iron CP
Product code:	Ref. HORIBA Medical: A11A01637
1.2. Use of the product	
Diagnostic reagent for quantitative in-vitro determination of Iron in serum and plasma by colorimetry.	
1.3. Company identification	
	HORIBA ABX SAS - Rue du Caducée - Parc Euromédecine 34184 MONTPELLIER CEDEX 4 - FRANCE Tel: (33) 4 67 14 15 16 Fax: (33) 4 67 14 15 17 Email: documentation.med@horiba.com
1.4. Emergency phone number	
	Contact the nearest first-aid station

2. Hazards identification	
Dangerous preparation according to 67/548/EEC - 99/45/EEC (Yes/No): Yes	
Most important hazards:	REAGENT 1 : Xi - Irritant
Specific risks	REAGENT 1 : R36 - Irritating to eyes.

3. Composition/information on ingredients						
3.1. Description of the kit						
		REAGENT : Bi-reagent cassette REAGENT 1 : 1 x 60 ml REAGENT 2 : 1 x 20 ml				
3.2. Hazardous ingredients (name, concentration)						
CAS N.	EC N.	Name	Concentration	Symbol	Risk	Registration number
60-32-2 64-19-7 9002-92-0	200-469-3 (EINECS) 200-580-7 (EINECS) 500-002-6 (NLP)	REAGENT 1 : Aminocaproic acid Acetic acid Dodecan-1-ol, ethoxylated	≤ 10% 1% < C < 5% 1% < C < 5%	Xi C Xn, N	R36/37/38 R10, R35 R22, R41, R50	_____ _____ _____
69011-36-5 62-56-6	500-241-6 (NLP) 200-543-5 (EINECS)	Isotriddecanol, ethoxylated (3 E0) Thiourea	1% < C < 5% < 1%	Xi Xn, N	R41 R22, R40, R51/53, R63	_____ _____
62-56-6	200-543-5 (EINECS)	REAGENT 2 : Thiourea	< 1%	Xn, N	R22, R40, R51/53, R63	_____

FORM-0307-A, revision 7

ABX Pentra Iron CP	A91A00567DEN	15/12/2009
---------------------------	---------------------	-------------------

4. First-aid-measures

Inhalation:	Move victim to fresh air.
Skin contact:	Remove contaminated clothing. In case of contact, immediately flush skin with copious amounts of water.
Eye contact:	Immediately wash eyes, also under the eyelids, with water for at least 15 minutes. Subsequently seek the immediate attention of an ophthalmologist.
Ingestion:	Rinse mouth immediately and drink large quantities of water. Do not induce vomiting. Seek medical attention.

5. Fire-fighting measures

Extinguishing media:	Use whatever is required for the surrounding area.
Specific risks:	Fires in the immediate vicinity may cause the development of dangerous vapours. Can be released in case of fire: sulfur oxides, nitrogen oxides (NO _x), carbon monoxide and carbon dioxide.
Special protective equipment:	Wear self-contained breathing apparatus.
Additional recommendations:	Do not allow fire water to penetrate into surface or ground water. Treat runoff as hazardous.

6. Accidental release measures

Personal precautions:	Wear a lab coat, protective gloves and safety goggles. In enclosed area: provide fresh air.
Environmental precautions:	Prevent from getting into soil, waterbodies and drains.
Methods for cleaning/absorption:	Soak up with absorbent materials such as sand, siliceous earth, acid- or universal binder. Store in special closed containers and dispose of according to local regulations. Final cleaning.

7. Handling and storage

7.1. Handling

Technical measures:	Provide adequate ventilation and local exhaust as needed.
Precautions:	The usual laboratory precautions should be observed.
Handling recommendations:	Avoid contact with skin and eyes. Keep all containers, equipment and working place clean.

7.2. Storage

Technical measures:	Not determined.
Storage conditions:	Store protected from light, in tightly closed containers, at 2-8°C. Do not freeze the reagents. Keep sterile.
Incompatible materials:	Aluminium, copper, copper containing metals, zinc.
Packaging materials:	Not determined.

ABX Pentra Iron CP	A91A00567DEN	15/12/2009
---------------------------	---------------------	-------------------

8. Exposure controls/personal protection

8.1. Exposure limit values

CAS N.	Chemical name	Type	Value
64-19-7	REAGENT 1 : Acetic acid	WEL-TWA WEL-TWA WEL-STEL WEL-STEL Europen, IOELV: TWA Europen, IOELV: TWA	10 ppm 25 mg/m ³ 15 ppm 37 mg/m ³ 10 ppm 25 mg/m ³

8.2. Exposure controls

8.2.1. Occupational exposure controls

Technical measures:	Local exhaust not required under normal circumstances.
Respiratory protection:	Provide adequate ventilation.
Hand protection:	Protective gloves according to EN 374. Glove material: Nitrile rubber Breakthrough time: >480 min. Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
Eye protection:	Tightly sealed safety glasses according to EN 166.
Skin protection:	Lab coat.
Hygiene measures:	Change contaminated clothes. Wash hands before breaks and at the end of the work.

8.2.2. Environmental exposure controls

Not available.	
----------------	--

9. Physical and chemical properties

9.1. General information

Physical state:	REAGENT 1 : Liquid REAGENT 2 : Liquid		
Colour:	REAGENT 1 : Colorless up to weak yellowish REAGENT 2 : Yellow	Odour:	REAGENT 1 : weak like acetic acid REAGENT 2 : like sulfur

9.2. Important health, safety and environmental information

pH:	REAGENT 1 : 4.5 (25°C) REAGENT 2 : 2.5 (25°C)	Relative density:	REAGENT 1 : 1.049 g/ml (at 20°C) REAGENT 2 : 1.022g/ml (at 20°C)
Boiling point:	Not available	Solubility:	REAGENT 1 : Fully miscible REAGENT 2 : Fully miscible (20°C)
Flash point:	Not combustible	Partition coefficient:	Not available
Flammability (solid, gaz):	Not available	Viscosity:	Not available
Explosive properties:	Not available	Vapour density:	Not available
Oxidizing properties:	Not available	Evaporation rate:	Not available

ABX Pentra Iron CP	A91A00567DEN	15/12/2009
---------------------------	---------------------	-------------------

10. Stability and reactivity

Conditions to avoid:	Protect against heat/sun rays.
Materials to avoid:	Strong oxidizing agents, alkalis, strong acids, aluminium, zinc, copper, copper containing metal.
Hazardous decomposition products:	Can be released in case of fire: nitrogen oxides (NO _x), sulfur oxides, carbon monoxide and carbon dioxide.
Other data:	No hazardous reactions known when used appropriately.

11. Toxicological information

Acute toxicity:	Not determined.
Chronic toxicity:	Not determined.
Inhalation:	Not determined.
Skin contact:	Mild irritant.
Eye contact:	Irritant. Irritation and redness may occur.
Ingestion:	May cause irritations. Following symptoms can occur: nausea, vomiting, diarrhoea, gastro-intestinal ailment.
Other data:	Quantitative data about the product toxicity are not available. Dangerous properties cannot be excluded. However, risks are not to be expected, when the product is handled by qualified and authorised personnel with the necessary precautions for chemicals/diagnostic reagents.

12. Ecological information

12.1. Ecotoxicity:	<p>Aquatic toxicity:</p> <p>REAGENT 1: Information about Thiourea and Dodecan-1-ol, ethoxylated (non-ionic surfactant): toxic to aquatic organisms.</p> <p>REAGENT 2: In case of important spills: harmful effects on water organisms by modification of pH-value.</p> <p>Water hazard class: 1 = mild water pollutant</p>
12.2. Mobility:	Not determined.
12.3. Degradability:	Not determined.
12.4. Bioaccumulative potential:	Not determined.
12.5. Results of PBT assessment:	Not determined.
12.6. Other hazardous effects:	Do not allow to enter ground water, sewage or drains.

13. Disposal considerations

Surplus or waste (residues) Contaminated packaging	It is advisable to avoid or reduce the generation of waste products wherever possible. Empty containers may contain product residues. Discard all waste, unused products, and contaminated packaging in accordance with current legislation. If you are in any doubt over the regulations, further information can be obtained from the competent authorities.
---	--

ABX Pentra Iron CP	A91A00567DEN	15/12/2009
---------------------------	---------------------	-------------------

14. Transport information (International regulations)

By air (IATA):	Appropriate shipping name: UN number: Risk category: Packing group:	Not restricted.
By land (European ADR):	Appropriate shipping name: UN number: Risk category: Packing group:	Not applicable.
By sea (IMDG):	Appropriate shipping name: UN number: Risk category: Packing group: Marine polluante:	Not applicable.

15. Regulatory information

Symbols:	REAGENT 1 : Xi	Irritant
R phrases:	REAGENT 1 : R36	Irritating to eyes.
S phrases:	REAGENT 1 : S2 S25 S26 REAGENT 2 : S25	Keep out of the reach of children. Avoid contact with eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Avoid contact with eyes.
Substances:	None	
Specific provisions and related laws:	None	
Other regulatory requirements:	In no way does this information exempt the user from knowing about or applying all the national or international regulations relating to his/her activity.	

16. Other information

16.1. List of relevant R phrases

R10	Flammable.
R22	Harmful if swallowed.
R35	Causes severe burns.
R36	Irritating to eyes.
R36/37/38	Irritating to eyes, respiratory system and skin.
R40	Limited evidence of a carcinogenic effect.
R41	Risk of serious damage to eyes.
R50	Very toxic to aquatic organisms.

ABX Pentra Iron CP	A91A00567DEN	15/12/2009
---------------------------	---------------------	-------------------

I
I

R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R63	Possible risk of harm to the unborn child.

16.2. Recommended restriction on use

See specific information given in the product user information.

16.3. Further information

This sheet is a complement to instructions for use but does not replace them. Information contained herewith is based on our current knowledge of the product, at the date shown, and is correct to the best of our knowledge. Furthermore, the user's attention is drawn to the dangers of using this product for anything other than its intended use. The user must accept the sole responsibility and take precautions accordingly for the use of this product.

16.4. Sources of key data

This document has been compiled with information extracted from documents given by our raw material suppliers.

16.5. Revision

The sections that have been modified from the previous version are indicated by a vertical line on the left side of the table.