

FINAL REGISTRATION REPORT

Part B

Section 1: Identity

Section 2: Physical and chemical properties

Section 4: Further information

Detailed summary of the risk assessment

Product code: SHA 105000 A

Product name(s): FERROCIOUS

Chemical active substance:

Ferric phosphate, 29.7 g/kg

Central Zone

Zonal Rapporteur Member State: Poland

CORE ASSESSMENT

Applicant: Sharda Cropchem España S.L.

Submission date: November 2020

MS Finalisation date: 07.2021; 10.2021; 05.2023

Version history

When	What
07.2021	RMS Assessment
10.2021	The Final Version of the RR
05.2023	Assessment of Applicant's update (equivalence and RI determination and analytical methods validation) by ZRMS

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Sufficient data on identity, physical and chemical properties and other information are available for the plant protection product.

Noticed data gap is:

data gap 1:

The equivalence report of active substance assessment (ferric phosphate) has not been completed..
The report should be provided before product registration

- none

1 Section 1: Identity of the plant protection product

1.1 Applicant (KCP 1.1)

Name: Sharda Cropchem España S.L
Address: Edificio Atalayas Business Center,
Carril Condomina nº 3, 12th Floor,
30006 Murcia, Spain
Phone: +34868127589
FAX: +34868127588

1.2 Producer of the plant protection product and of the active substances (KCP 1.2)

1.2.1 Producer(s) of the preparation

Name: Sharda Cropchem Ltd.
Address: Prime Business Park
Dashrathlal Joshi Road
Vile Parle (West)
Mumbai – 400 056
India
Phone number: + 91 22 6678 2800
Fax number: + 91 22 6678 2828/ 2808
Email: shardaint@vsnl.com
regn@shardaintl.com

1.2.2 Producer(s) of the active substance(s)

Name: Sharda Cropchem Ltd.
Address: Prime Business Park
Dashrathlal Joshi Road
Vile Parle (West)
Mumbai – 400 056
India
Phone number: + 91 22 6678 2800
Fax number: + 91 22 6678 2828/ 2808
Email: shardaint@vsnl.com

regn@shardaintl.com

1.2.3 Statement of purity (and detailed information on impurities) of the active substance(s)

1.2.3.1 Ferric phosphate

Ferric phosphate min. 778.2 g/kg Sharda source
min. 703 g/kg (equivalent to 260 g/kg iron and 144 g/kg phosphorus) (Commission Implementing Regulation (EU) 2015/1166 and according to SAN-TE/10385/2015 Rev 1 (29 May 2015))

RMS Comment:

The equivalence source assessment of active substance (ferric phosphate) has not been completed.

Relevant impurities (Commission Implementing Regulation (EU) 2015/1166 and according to SAN-TE/10385/2015 Rev 1 (29 May 2015)):

Lead max. 3 mg/kg in the active substance
Mercury max. 0.1 mg/kg in the active substance
Cadmium max. 1 mg/kg in the active substance

1.3 Trade names and producer's development code numbers for the preparation (KCP 1.3)

Trade name: Please refer to Registration Report Part A for the relevant country (or)
Trade name: FERROCIOUS
Company code number: SHA 105000 A
Iron phosphate 2.97% GB
Ferric phosphate 2.97% GB

1.4 Detailed quantitative and qualitative information on the composition of the preparation (KCP 1.4)

1.4.1 Composition of the plant protection product (KCP 1.4.1)

Table 1.4-1: Active substance and variant(s) of the active substance(s)

Active substance / variant	Declared content of the pure active substance / variant (g/L or g/kg)	FAO Limits (min – max)	Technical content* (g/L or g/kg)	Technical content** (%w/w)
Ferric phosphate	29.7	26.73 – 32.67 g/kg (± 10% of the declared content)	38.17 g/kg	3.82 % w/w

* Based on the minimum purity of the active substance declared for registration in the active substance dossiers

Table 1.4-2: Safener and synergists

Safener / synergist	Declared content of the safener / synergist (g/L or g/kg)	FAO Limits (min – max)	Technical content* (g/L or g/kg)	Technical content** (%w/w)
-	-	-	-	-

* Based on the minimum purity of the safener/synergist declared for registration

Table 1.4-3: Relevant impurities

Relevant impurity	Maximum content (g/L or g/kg)
Lead	max. 3 mg/kg in the active substance (0.115 mg/kg in formulation)
Mercury	max. 0.1 mg/kg in the active substance (0.0038 mg/kg in formulation)
Cadmium	max. 1 mg/kg in the active substance (0.038 mg/kg in formulation)

1.4.2 Information on the active substance(s) (KCP 1.4.2)

Table 1.4-4: Information on Ferric phosphate

Type	Name/Code Number
ISO common name	Ferric phosphate
CAS No.	10045-86-0
EC No.	233-149-7
CIPAC No.	629

1.4.3 Information on safeners, synergists and co-formulants (KCP 1.4.3)

CONFIDENTIAL information is provided separately (Part C).

1.5 Type and code of the plant protection product (KCP 1.5)

Type: Granular bait

[Code: GB]

1.6 Function (KCP 1.6)

Iron phosphate 2.97% GB is intended to be used as molluscicide.

2 Section 2: Physical, chemical and technical properties of the plant protection product

All studies have been performed in accordance with the current requirements and the results are deemed to be acceptable.

The appearance of the product is that of Pale blue granules with weakly odour. It is not explosive, has no oxidising properties. The product is not flammable and it has a self-ignition temperature of 250 °C. In aqueous solution, it has a pH value around 4.15 at 20 °C. There is no effect of high temperature on the stability of the formulation, since after 14 days at 54 °C, neither the active ingredient content nor the technical properties were changed. The stability data indicate a shelf life of at least 2 years at ambient temperature when stored in *HDPE*. Its technical characteristics are acceptable for a granular bait formulation.

The intended concentration of use is 7 kg/ha (60-70 granular baits per m² per application).

Justified Proposals for Classification and Labelling (KCP 12) for physical chemical part only

No risk and safety phrases are relevant for this section.

Notifier Proposals for Risk and Safety Phrases (KCP 12)

No risk and safety phrases are relevant for this section.

Compliance with FAO specifications:

The product Iron phosphate 2.97% GB complies with FAO specifications.

Formulation used for tests

The product used to determine the physical, chemical and technical properties is the one cited in Part C.

Table 2-1: Physical, chemical and technical properties of the plant protection product

Annex point	Method used / deviations	Test material	Findings	GLP Y/N	Reference	Acceptability / comments
Colour and physical state (KCP 2.1)	OPPTS 830.6302 OPPTS 830.6303 OPPTS 830.6304	Iron phosphate 2.9% GB, Batch no SCL-58946	Pale blue granules with weakly odor		Krzysiak-Warzala B., 2017. Study N° 20/2017/BA-AD	Accepted
Explosive properties (KCP 2.2.1)	EEC A.14	Iron phosphate 2.9% GB, Batch no SCL-58946	Has no explosive properties.	Y	Krzysiak-Warzala B., 2017. Study N° 20/2017/BA-AD Buczowski D., 2017 Study N° BW-03/17	Accepted
Oxidizing properties (KCP 2.2.2)	EEC A.17	Iron phosphate 2.9% GB, Batch no SCL-58946	Has no oxidising properties	Y	Krzysiak-Warzala B., 2017. Study N° 20/2017/BA-AD	Accepted
Flash point (KCP 2.3.1)	-	-	Not required for solid formulations.	-	-	Statement accepted
Flammability (KCP 2.3.2)	EEC A.10	Iron phosphate 2.9% GB, Batch no SCL-58946	Not considered to be highly flammable.	Y	Krzysiak-Warzala B., 2017. Study N° 20/2017/BA-AD	Accepted
Self-heating (KCP 2.3.3)	EEC A.16	Iron phosphate 2.9% GB, Batch no SCL-58946	250 °C.	Y	Krzysiak-Warzala B., 2017. Study N° 20/2017/BA-AD	Accepted
Acidity or alkalinity and pH (KCP 2.4.1)	-	-	Since the pH value ranged from 4 to 10, the acidity or alkalinity test was not performed.	-	-	Statement accepted
pH of a 1% aqueous dilution, emulsion or dispersion (KCP 2.4.2)	CIPAC MT 75.3	Iron phosphate 2.9% GB, Batch no SCL-58946	4.15 (20 °C).	Y	Krzysiak-Warzala B., 2017. Study N° 20/2017/BA-AD	Accepted

Viscosity (KCP 2.5.1)	-	-	Not required for GB formulation.	-	-	Statement accepted
Surface tension (KCP 2.5.2)	-	-	Not required for GB formulation.	-	-	Statement accepted
Relative density (KCP 2.6.1)	-	-	Not required for GB formulation.	-	-	Statement accepted
Bulk density (KCP 2.6.2)	CIPAC MT186	Iron phosphate 2.9% GB, Batch no SCL-58946	Pour density = 0.792 g/ml Tap density = 0.792 g/ml	Y	Krzysiak-Warzala B., 2017. Study N° 20/2017/BA-AD	Accepted
Storage Stability after 14 days at 54° C (KCP 2.7.1)	CIPAC MT 46.3 CIPAC MT 75.3 CIPAC MT 170 CIPAC MT 171 CIPAC MT 178 CIPAC MT 190 ASTM E394-15 OPPTS 830.6302 OPPTS 830.6303 OPPTS 830.6304 Technical Monograph CropLife ISCO Procedure No.BA-AH/PB-01 XRF Spectrometry	Iron phosphate 2.9% GB, Batch no SCL-58946	Results after storage the product at 54 °C for 14 days: <u>Active substance content</u> 2.65% (w/w) 26.5 g/kg <u>Amount of FePO₄ released at time</u> -15 minutes is 120 µg/g -30 minutes is 215 µg/g -180 minutes is 1551 µg/g <u>Percentage FePO₄ relative to the FePO₄ content of the formulation-extracted at time:</u> -15 minutes is 0.49% -30 minutes is 0.86% -180 minutes is 6.20% <u>Appearance (physical state, colour, odour)</u> Pale blue granules with weakly odour <u>pH value (1% aqueous extract)</u> 4.22 (20 °C) <u>Particle size distribution</u> 1 st method: x ₁ =1000µm where r _x =0.11% x ₂ =2000µm where r _x =99.74% x ₁ =1000µm where R _x ≥99% x ₂ =2000µm where R _x ≥99%	Y	Krzysiak-Warzala B., 2017. Study N° 20/2017/BA-AD	Accepted RMS Comment: Active substance content and stability of packaging were tested. All physical and chemical properties remained stable after the test and accepted. Test carried out in HDPE coex bottles

			<p>2nd method: 99.74% of the particles have size between 2000-3350 µm 0.11% of the particles have size between 1000-2000µm <u>Dust content</u> Dust content is 1.2mg; thus sample is nearly dust free <u>Attrition characteristics</u> 99.75% <u>Stability of packaging and packaging/preparation interactions</u> -no significant effect of the formulation on the package and vice versa was observed; no changes in the appearance of the sample and package were observed; -Insignificant effect on the weight of the package with sample was observed;after accelerated storage procedure weight loss was in the range 0.20-0.25% (w/w).</p> <p>Relevant impurities content: Before storage: Cadmium: 0.00347 mg/kg Lead: 0.00360 mg/kg Mercury: 0.000103 mg/kg After storage: Iron Phosphate is inorganic compound with relevant impurities of (eco)toxicological concern: lead, cadmium, mercury which are elements. From the scientific point of view elements are not expected to form or increase their content in the formulation during the storage therefore no determination after storage is required for this product.</p>		<p>Vasu K., 2023, study No 11256/2022</p>	<p>The content of relevant impurities before storage was below the levels of SANTE/10385/2015 Rev 1 (29 May 2015). The content of the RI after the storage was not determined. However, as RIs do not form on the storage and the content of the a.s. was stable during the storage it can be accepted. Accepted.</p>
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Stability after storage for other periods and/or temperatures (KCP 2.7.2)	-	-	Not required.	-	-	Statement accepted
Minimum content after heat stability testing (KCP 2.7.3)	-	-	Please refer KCP 2.7.1.	-	-	Statement accepted
Effect of low temperatures on stability (KCP 2.7.4)	-	-	Not required for GB formulation.	-	-	Statement accepted
Ambient temperature shelf life (KCP 2.7.5)	CIPAC MT 75.3 CIPAC MT 170 CIPAC MT 171 CIPAC MT 178 CIPAC MT 190 ASTM E394-15 OPPTS 830.6302 OPPTS 830.6303 OPPTS 830.6304 Technical Monograph CropLife ISCO Procedure No.BA-AH/PB-01 XRF Spectrometry	Iron phosphate 2.9% GB, Batch no SCL-58946	Results after storage the product 2 years at room temperature: <u>Active substance content</u> 2.67% (w/w) 26.7 g/kg <u>Amount of FePO₄ released at time</u> -15 minutes is 60 µg/g -30 minutes is 167 µg/g -180 minutes is 663 µg/g <u>Percentage FePO₄ relative to the FePO₄ content of the formulation-extracted at time:</u> -15 minutes is 0.23% -30 minutes is 0.64% -180 minutes is 2.54% <u>Appearance (physical state, colour, odour)</u> Pale blue granules with weakly odour <u>pH value (1% aqueous extract)</u> 4.10 (20 °C) <u>Particle size distribution</u> 1 st method: x ₁ =1000µm where r _x =0.02% x ₂ =2000µm where r _x =99.87%	Y	Krzysiak-Warzala B., 2019. Study N° 21/2017/BA-AD	Accepted RMS Comment: Active substance content and stability of packaging were tested. All physical and chemical properties remained stable after the test and accepted. Test carried out in HDPE coex bottles. Storage stability – 2 years

			<p>$x_1=1000\mu\text{m}$ where $R_x\geq 99\%$ $x_2=2000\mu\text{m}$ where $R_x\geq 99\%$ 2nd method: 99.87% of the particles have size between 2000-3350 μm 0.02% of the particles have size between 1000-2000μm <u>Dust content</u> Dust content is 0.1mg; thus sample is nearly dust free <u>Attrition characteristics</u> 99.77% <u>Stability of packaging and packaging/preparation interactions</u> -no significant effect of the formulation on the package and vice versa was observed; no changes in the appearance of the sample and package were observed; -Insignificant effect on the weight of the package with sample was observed;after accelerated storage procedure weight loss was in the range 0.56% (w/w).</p>			
Shelf life in months (if less than 2 years) (KCP 2.7.6)	-	-	Not relevant.	-	-	Statement accepted
Wettability (KCP 2.8.1)	-	-	Not required for GB formulation.	-	-	Statement accepted
Persistence of foaming (KCP 2.8.2)	-	-	Not required for GB formulation.	-	-	Statement accepted
Suspensibility (KCP 2.8.3.1)	-	-	Not required for GB formulation.	-	-	Statement accepted
Spontaneity of dispersion (KCP 2.8.3.2)	-	-	Not required for GB formulation.	-	-	Statement accepted
Dispersion stability (KCP 2.8.3.3)	-	-	Not required for GB formulation.	-	-	Statement accepted
Degree of dissolution and dilution stability (KCP 2.8.4)	-	-	Not required for GB formulation.	-	-	Statement accepted

Particle size distribution / nominal size range of granules (KCP 2.8.5.1.1)	CIPAC MT 170	Iron phosphate 2.9% GB, Batch no SCL-58946	<p><u>1st method:</u> $x_1=1000\mu\text{m}$ where $r_x=0.08\%$ $x_2=2000\mu\text{m}$ where $r_x=99.80\%$ $x_1=1000\mu\text{m}$ where $R_x\geq 99\%$ $x_2=2000\mu\text{m}$ where $R_x\geq 99\%$</p> <p><u>2nd method:</u> 99.80% of the particles have size between 2000-3350 μm 0.08% of the particles have size between 1000-2000μm</p>	Y	Krzysiak-Warzala B., 2017. Study N° 20/2017/BA-AD	Accepted
Wet sieve test (KCP 2.8.5.1.2)	-	-	Not required for GB formulation.	-	-	Statement accepted
Dust content (KCP 2.8.5.2.1)	CIPAC MT 171	Iron phosphate 2.9% GB, Batch no SCL-58946	Dust content is 0.3 mg; thus sample is nearly dust free.	Y	Krzysiak-Warzala B., 2017. Study N° 20/2017/BA-AD	Accepted
Particle size of dust (KCP 2.8.5.2.2)	-	-	Not required for GB formulation.	-	-	Statement accepted
Attrition (KCP 2.8.5.3)	CIPAC MT 178	Iron phosphate 2.9% GB, Batch no SCL-58946	99.66%	Y	Krzysiak-Warzala B., 2017. Study N° 20/2017/BA-AD	Accepted
Hardness and integrity (KCP 2.8.5.4)	-	-	Not required for GB formulation.	-	-	Statement accepted
Emulsifiability (KCP 2.8.6.1)	-	-	Not required for GB formulation.	-	-	Statement accepted
Emulsion stability (KCP 2.8.6.2)	-	-	Not required for GB formulation.	-	-	Statement accepted
Re-emulsifiability (KCP 2.8.6.3)	-	-	Not required for GB formulation.	-	-	Statement accepted
Flowability (KCP 2.8.7.1)	CIPAC MT 172	Iron phosphate 2.9% GB, Batch no SCL-58946	After storage procedure (54°C, 14 days, pressure on the sample of 25g/cm ²) sample drops through the sieve spontaneously	Y	Krzysiak-Warzala B., 2017. Study N° 20/2017/BA-AD	Accepted
Pourability (KCP 2.8.7.2)	-	-	Not required for GB formulation.	-	-	Statement accepted
Dustability following accelerated storage	-	-	Not required for GB formulation.	-	-	Statement accepted

(KCP 2.8.7.3)						
Physical compatibility of tank mixes (KCP 2.9.1)	-	-	No recommended tank mixes.			Statement accepted
Chemical compatibility of tank mixes (KCP 2.9.2)	-	-	No recommended tank mixes..	-	-	Statement accepted
Adhesion to seeds (KCP 2.10.1)	-	-	Not a seed treatment formulation .	-	-	Statement accepted
Distribution to seed (KCP 2.10.2)	-	-	Not a seed treatment formulation.	-	-	Statement accepted
Other/special studies (KCP 2.11.1)	CIPAC MT 190 ASTM E394-15	Iron phosphate 2.9% GB. Batch no SCL-58946	<u>Amount of FePO₄ released at time</u> -15 minutes is 58 µg/g -30 minutes is 94 µg/g -180 minutes is 538 µg/g <u>Percentage FePO₄ relative to the FePO₄ content of the formulation-extracted at time:</u> -15 minutes is 0.22% -30 minutes is 0.35% -180 minutes is 2.20%	Y	Krzysiak-Warzala B., 2017. Study N° 20/2017/BA-AD	Accepted
Other/special studies (KCP 2.11.2)	ISCO Procedure No.BA-AH/PB-01 XRF Spectrometry	Iron phosphate 2.9% GB, Batch no SCL-58946	<u>Active substance content</u> 2.65% (w/w) 26.5 g/kg	Y	Krzysiak-Warzala B., 2017. Study N° 20/2017/BA-AD	Accepted

3 Section 3 is presented as a separate document

Please refer to the separate file “dRR Part B3”.

4 Section 4: Further information on the plant protection product

4.1 Packaging and Compatibility with the Preparation (KCP 4.4)

Table 4.1-1: Packaging information for 250 g (500 mL bottle)

Type	Description
Material:	HDPE
Shape/size:	Bottle / approx. 75 mm x 75 mm x 161 mm
Opening:	approx. 42.5 mm inner diameter
Closure:	HDPE screw cap
Seal:	Induction heat seal
Manner of construction	coextrusion
UN/ADR	compliant

Table 4.1-2: Packaging information for 500 g (750 mL bottle)

Type	Description
Material:	HDPE
Shape/size:	Bottle / approx. 85 mm x 85 mm x 186 mm
Opening:	approx. 42.5 mm inner diameter
Closure:	HDPE screw cap
Seal:	Induction heat seal
Manner of construction	coextrusion
UN/ADR	compliant

Table 4.1-3: Packaging information for 1.75 kg (2.5 litre bottle)

Type	Description
Material:	HDPE
Shape/size:	Bottle / approx. 122 mm x 122 mm x 258 mm
Opening:	approx. 69 mm inner diameter
Closure:	HDPE screw cap
Seal:	Induction heat seal
Manner of construction	coextrusion
UN/ADR	compliant

Table 4.1-4: Packaging information for 3.5 kg (5.5 litre bottle)

Type	Description
Material:	HDPE

Type	Description
Shape/size:	Bottle / approx. 150 mm x 150 mm x 335 mm
Opening:	approx. 69 mm inner diameter
Closure:	HDPE screw cap
Seal:	Induction heat seal
Manner of construction	coextrusion
UN/ADR	compliant

Table 4.1-5: Packaging information for 5 kg (7.4 litre bottle)

Type	Description
Material:	PP
Shape/size:	Rounded cube / approx. 174 mm x 255 mm
Opening:	approx. 255 mm inner diameter
Closure:	PP cap
Seal:	Induction heat seal
Manner of construction	coextrusion
UN/ADR	compliant

Table 4.1-6: Packaging information for 10 kg (13.75 litre bottle)

Type	Description
Material:	PP
Shape/size:	Rounded cube / approx. 303 mm x 260 mm
Opening:	approx. 260 mm inner diameter
Closure:	PP cap
Seal:	Induction heat seal
Manner of construction	coextrusion
UN/ADR	compliant

RMS Comments:

Recommended packagings have been accepted

Appendix 1 Lists of data considered in support of the evaluation

List of data submitted by the applicant and relied on

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 2.1 KCP 2.2.1 KCP 2.2.2 KCP 2.3.2 KCP 2.3.3 KCP 2.4.2 KCP 2.6.2 KCP 2.7.1 KCP 2.8.5.1.1 KCP 2.8.5.2.1 KCP 2.8.5.3 KCP 2.8.7.1 KCP 2.11.1 KCP 2.11.2	Krzysiak- Warzala B.	2017	Iron phosphate 2.9% GB: Analysis of active substances content and physicochemical properties of initial preparation and preparation after accelerated storage procedure, Institute of heavy Organic Synthesis, Blachownia Study N° 20/2017/BA-AD GLP Unpublished	N	Sharda Cropchem Limited
KCP 2.2.1	Buczowski D.	2017	Iron phosphate 2.9% GB: Determination of explosive properties Institute of industrial organic chemistry Study N° BW-03/17 GLP Unpublished	N	Sharda Cropchem Limited
KCP 2.7.5	Krzysiak- Warzala B.	2019	Iron phosphate 2.9% GB: Evaluation of the product after storage in accordance with the CropLife Technical Monograph No.17 (6months, 1year, 2 years) Institute of heavy Organic Synthesis, Blachownia Study N° 21/2017/BA-AD GLP Unpublished	N	Sharda Cropchem Limited

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 2.7.6	Krzysiak-Warzala B.	2018	Iron phosphate 2.9% GB: Evaluation of the product after storage in accordance with the CropLife Technical Monograph No.17 (6months, 1year, 2 years) Institute of heavy Organic Synthesis, Blachownia Study N° 21/2017/BA-AD/1 GLP Unpublished	N	Sharda Cropchem Limited
KCP 2.7.6	Krzysiak-Warzala B.	2018	Iron phosphate 2.9% GB: Evaluation of the product after storage in accordance with the CropLife Technical Monograph No.17 (6months, 1year, 2 years) Institute of heavy Organic Synthesis, Blachownia Study N° 21/2017/BA-AD/2 GLP Unpublished	N	Sharda Cropchem Limited
KCP 2.7.1	K. Vasu	2023	Method validation and determination of relevant impurities lead, mercury and cadmium in Iron Phosphate 2.9% GB. Bioscience Research Foundation Report No. 11256/2022 GLP Unpublished	N	Sharda Cropchem Limited

List of data submitted or referred to by the applicant and relied on, but already evaluated at EU peer review

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
-	-	-	-	-	-

The following tables are to be completed by MS.

List of data submitted by the applicant and not relied on

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
-	-	-	-	-	-

List of data relied on and not submitted by the applicant but necessary for evaluation

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
-	-	-	-	-	-

Appendix 2 Additional data on the physical, chemical and technical properties of the active substance

A 2.1 Ferric phosphate

Not required.