

# 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 9700 A

Product name: RULER

Chemical active substance:

Fenazaquin, 200 g/L

Interzonal

Zonal Rapporteur Member State: Poland

## CORE ASSESSMENT

Applicant: Sharda Cropchem España S.L.

Submission date: May 2019

Update date: May 2020

MS Finalisation date: 09.2020; 05.2021; 07.2022

## Version history

When	What
May 2020	Applicant update
September 2020	Assessment by the expert
May 2021	Final Version
July 2022	Assessment after the source equivalence assessment of active substance (fenazaquin) has been completed.

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

Noticed data gaps are:

2-years storage stability study – test on-going

## **1 Section 1: Identity of the plant protection product**

### **1.1 Applicant (KCP 1.1)**

Name: Sharda Cropchem España S.L  
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Carril Condomina nº 3, 12<sup>th</sup> 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**

Confidential information or data are provided separately (Part C).

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

Confidential information or data are provided separately (Part C).

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

##### **1.2.3.1 Fenazaquin**

Fenazaquin min. 985 g/kg (Sharda source, has been completed in Poland:R-76/2022  
(11-07-2022)

min. 975 g/kg (Directive 2011/39/EC; SANTE/11781/2017 rev 1, 23  
March 2018)

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

Trade name: RULER  
Company code number: SHA 9700 A

### 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(s) 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)
Fenazaquin	200 g/L	188 – 212 g/L (± 6%)	203.05 g/L	19.39 %w/w

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

\*\* Based on the density of the formulation = 1.0467 g/mL (Note: only applies if a liquid formulation – delete this comment if not needed)

**Table 1.4-2: Relevant impurities**

Relevant impurity	Maximum content (g/L or g/kg)
-	-

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

**Table 1.4-2: Information on Fenazaquin**

Type	Name/Code Number
ISO common name	Fenazaquin
CAS No.	120928-09-8
EC No.	410-580-0
CIPAC No.	693

#### 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: Suspension concentrate [Code: SC]

## **1.6                    Function (KCP 1.6)**

The product Fenazaquin 20% SC is an insecticide.

## **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 product is not explosive. The product is not flammable/has a flash point of 98.8 °C. It has a self ignition temperature of  $600.2 \pm 0.1$  °C.

The shelf-life of at least 1 year at ambient temperature, according to accelerated storage stability study.

The intended concentration of use is 0.0002%. of a.s.

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

Neither classification or labelling 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 Fenazaquin 20% SC 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	Fenazaquin 20% SC batch SCL-22018	Study ongoing Colour: 5 Y 9/1 (off white) Odor: Mild Pungent Physical state: Liquid	Y	Deepthi Prakash, 2019, report No. G14035	Accepted
Explosive properties (KCP 2.2.1)	EEC Method A.14	Fenazaquin 20% SC batch SCL-22018	The test item was non-explosive when subjected to thermal sensitivity (flame) and mechanical sensitivity (shock) tests.	Y	Deepthi Prakash, 2018, report No. G14027	Accepted
Oxidizing properties (KCP 2.2.2)	EEC A. 21	Fenazaquin 200 g/L SC batch SCL-22018	Study ongoing The formulation has no oxidizing properties.	Y	Deepthi Prakash, 2019, report No. G14028	Accepted
Flash point (KCP 2.3.1)	EEC Method A.9, CIPAC MT 12	Fenazaquin 20% SC batch SCL-22018	The flash point of the test item was greater than 98.8°C.	Y	Deepthi Prakash, 2018, report No. G14029	Accepted
Flammability (KCP 2.3.2)			Please refer to KCP 2.3.1			Statement accepted
Self-heating (KCP 2.3.3)	EEC A.15	Fenazaquin 20% SC batch SCL-22018	Auto-ignition temperature is 600.2 ± 0.1 °C (ignition delay time <1 min; volume of test item: 100 µL).	Y	Deepthi Prakash, 2019, report No. G14034	Accepted
Acidity or alkalinity and pH (KCP 2.4.1)			Study ongoing Not required. Since the obtained pH value was in the range 4 to 10, the acidity or alkalinity test was not performed.			Statement accepted
pH of a 1% aqueous	CIPAC MT 75.3	Fenazaquin	Study ongoing	Y	Deepthi Prakash, 2019,	Accepted



Annex point	Method used / deviations	Test material	Findings			GLP Y/N	Reference	Acceptability / comments		
dilution, emulsion or dispersion (KCP 2.4.2)		20% SC batch SCL-22018	pH of 1% aqueoues emulsion – 7.25 pH of neat formulation – 6.83				report No. G14035			
Viscosity (KCP 2.5.1)	CIPAC MT 192	Fenazaquin 20% SC batch SCL-22018	Rotational spped (rpm)	Apparent viscosity (cP) at 20 ± 0.5°C	Apparent viscosity (cP) at 40 ± 0.5°C	Y	Deepthi Prakash, 2018, report No. G14030	Accepted  RMS Comments :		
			20	1417.70 ± 13.85	1471.69 ± 19.28					
			30	1026.45 ± 14.05	1069.107 ± 16.65			<div>Rotational spped (rpm)</div> <div>Kinematict viscosity (mm²/s) at 20 ± 0.5°C</div> <div>Kinematict viscosity (mm²/s) at 20 ± 0.5°C</div>		
			40	820.82 ± 7.54	854.82 ± 12.00					
			Repeated in 30	1013.12 ± 16.16	1059.77 ± 16.00					
			Repeated in 20	1367.71 ± 24.00	1413.70 ± 18.32					
			20	1354.5	1406					
30	980.6	1021.4								
40	784.2	816.7								
Surface tension (KCP 2.5.2)	OECD 115, EEC method A.5	Fenazaquin 20% SC batch SCL-22018	The surface tension of 1 mL/L aqueous suspension of the test item was determined to be 37.846 dynes/cm at 20.17°C.  Results for neat : 37.846 mN/m Results for intended concentration: 33.994 mN/m			Y	Deepthi Prakash, 2018, report No. G14031	Accepted  RMS Comment: Active surface product		
Relative density (KCP 2.6.1)	OPPTS 830.8300, CIPAC MT 3, EEC Method A.3	Fenazaquin 20% SC batch SCL-22018	The density and relative density at 20.0°C were found to be 1.0467 ± 0.0003 g/mL.			Y	Deepthi Prakash, 2018, report No. G14032	Accepted		
Bulk density (KCP 2.6.2)			Not relevant for a liquid.					Statement accepted		
Storage Stability after 14 days at 54° C (KCP 2.7.1)	OPPTS 830.6313 CIPAC MT 46.3.1	Fenazaquin 20% SC batch SCL-22018	Study ongoing Stable in its commercial package under the accelerated storage. Physical state colour and odour			Y	Deepthi Prakash, 2019, report No. G14035	Accepted  RMS Comment: Packagings after accelerated		

Annex point	Method used / deviations	Test material	Findings	GLP Y/N	Reference	Acceptability / comments
			<p><b>Before storage:</b>  Colour: 5 Y 9/1 (off white)  Odor: Mild Pungent  Physical state: Liquid</p> <p><b>After storage:</b>  Colour: 5 Y 9/1 (off white)  Odor: Mild Pungent  Physical state: Liquid</p> <p><b>pH Determination of 1%</b>  Before storage: 7.25  After storage: 7.23</p> <p><b>pH Determination of neat formulation</b>  Before storage: 6.83  After storage: 6.79</p> <p><b>Pourability:</b>  Before storage: 1.85 %  After storage: 1.88 %</p> <p><b>Active ingredient content:</b>  Before storage: 19.50 ± 0.02% (w/w); 204.07 g/L  After storage: 19.55 ± 0.04% (w/w); 204.60 g/L</p> <p><b>Spontaneity of dispersion</b>  Before storage: 98.32 %  After storage: 98.32 %</p> <p><b>Suspensibility</b>  at 2 mL/L  Before storage 92.35 %  After storage 92.34 %  At 4 mL/L  Before storage 96.51 %</p>			<p>storage stability study : no change , no stains, any perforation and leakage, after storage  HDPE/PA COEX</p> <p>Because storage stability test was started on April 2019 , method development and Validation criteria are within  SANCO/3030/99 rev.4</p> <p>According to accelerated storage stability study (in HDPE/PA COEX packaging)  1-year shelf life is accepted.</p>

Annex point	Method used / deviations	Test material	Findings	GLP Y/N	Reference	Acceptability / comments
			After storage 96.43 %  Wet sieve Before storage: 0.078 % After storage: 0.076 %			
Stability after storage for other periods and/or temperatures (KCP 2.7.2)			Study ongoing Not relevant			Statement accepted
Minimum content after heat stability testing (KCP 2.7.3)			Study ongoing Not relevant			Statement accepted
Effect of low temperatures on stability (KCP 2.7.4)	CIPAC MT 39.3	Fenazaquin 20% SC batch SCL-22018	Study ongoing Stable at 0°C as the preparation did not show significant changes in the nature of test item.	Y	Deepthi Prakash, 2019, report No. G14035	Accepted
Ambient temperature shelf life (KCP 2.7.5)			Study ongoing			Statement accepted  RMS Comment: According to accelerated storage stability study (HDPE/PA COEX packaging) 1-year shelf life is accepted.
Shelf life in months (if less than 2 years) (KCP 2.7.6)			Not relevant.			Statement accepted
Wettability (KCP 2.8.1)			Not relevant for a liquid.			Statement accepted
Persistence of foaming (KCP 2.8.2)	CIPAC MT 47.3	Fenazaquin 20% SC	Study ongoing Low dose	Y	Deepthi Prakash, 2019, report No. G14035	Accepted

Annex point	Method used / deviations	Test material	Findings	GLP Y/N	Reference	Acceptability / comments
		batch SCL-22018	After 1 minute $\pm$ 10 sec – 8 mL After 12 minutes $\pm$ 10 sec – Nil  High dose After 1 minute $\pm$ 10 sec – 10 mL After 12 minutes $\pm$ 10 sec - Nil			
Suspensibility (KCP 2.8.3.1)	CIPAC MT 184	Fenazaquin 20% SC batch SCL-22018	Study ongoing At 2 mL/L 92.35 % At 4 mL/L 96.51 %	Y	Deepthi Prakash, 2019, report No. G14035	Accepted
Spontaneity of dispersion (KCP 2.8.3.2)	CIPAC MT 160	Fenazaquin 20% SC batch SCL-22018	Study ongoing 98.32 $\pm$ 0.02 %	Y	Deepthi Prakash, 2019, report No. G14035	Accepted
Dispersion stability (KCP 2.8.3.3)			Not relevant for a SC formulation.			Statement accepted
Degree of dissolution and dilution stability (KCP 2.8.4)			Not relevant for a SC formulation.			Statement accepted
Particle size distribution / nominal size range of granules (KCP 2.8.5.1.1)			Not relevant for a SC formulation.			Statement accepted
Wet sieve test (KCP 2.8.5.1.2)	CIPAC MT 185	Fenazaquin 20% SC batch SCL-22018	Study ongoing % of test item retained on 75 $\mu$ m sieve – 0.078 %	Y	Deepthi Prakash, 2019, report No. G14035	Accepted
Dust content (KCP 2.8.5.2.1)			Not relevant for a SC formulation.			Statement accepted
Particle size of dust			Not relevant for a SC formulation.			Statement accepted

Annex point	Method used / deviations	Test material	Findings	GLP Y/N	Reference	Acceptability / comments
(KCP 2.8.5.2.2)						
Attrition (KCP 2.8.5.3)			Not relevant for a SC formulation.			Statement accepted
Hardness and integrity (KCP 2.8.5.4)			Not relevant for a SC formulation.			Statement accepted
Emulsifiability (KCP 2.8.6.1)			Not relevant for a SC formulation.			Statement accepted
Emulsion stability (KCP 2.8.6.2)			Not relevant for a SC formulation.			Statement accepted
Re-emulsifiability (KCP 2.8.6.3)			Not relevant for a SC formulation.			Statement accepted
Flowability (KCP 2.8.7.1)			Not relevant for a SC formulation.			Statement accepted
Pourability (KCP 2.8.7.2)	CIPAC MT 148	Fenazaquin 20% SC batch SCL-22018	Study ongoing 1.85 %	Y	Deepthi Prakash, 2019, report No. G14035	Accepted
Dustability following accelerated storage (KCP 2.8.7.3)			Not relevant for a SC formulation.			Statement accepted
Physical compatibility of tank mixes (KCP 2.9.1)			Not relevant.			Statement accepted
Chemical compatibility of tank mixes (KCP 2.9.2)			Not relevant.			Statement accepted
Adhesion to seeds (KCP 2.10.1)			Not relevant, not used for seed treatment.			Statement accepted
Distribution to seed			Not relevant, not used for seed treatment.			Statement accepted

Annex point	Method used / deviations	Test ma- terial	Findings	GLP Y/N	Reference	Acceptability / comments
(KCP 2.10.2)						
Other/special studies (KCP 2.11)			Not relevant.			Statement 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 100 mL**

Type	Description
Material:	PET
Shape/size:	Round bottle / approx. 57 mm diameter x 75 mm
Opening:	41.7 mm inner diameter
Closure:	HDPE screw cap
Seal:	Induction heat seal
Manner of construction	extruded
UN/ADR	compliant

**Table 4.1-2: Packaging information for 500 mL**

Type	Description
Material:	HDPE
Shape/size:	Round bottle / approx. 69.5 mm diameter x 188.5 mm
Opening:	41.7 mm inner diameter
Closure:	HDPE screw cap
Seal:	Induction heat seal
UN/ADR	compliant

**Table 4.1-3: Packaging information for 1 L**

Type	Description
Material:	HDPE
Shape/size:	Round bottle / approx. 88.5 mm diameter x 239.5 mm
Opening:	41.7 mm inner diameter
Closure:	HDPE screw cap
Seal:	Induction heat seal
UN/ADR	compliant

**RMS Comment:**

HDPE, PET packaging are accepted although accelerated storage stability has been done in HDPE/PA COEX packagings (suspension concentrate with 65% of water)





## Appendix 1 Lists of data considered in support of the evaluation

Tables considered not relevant can be deleted as appropriate.

MS to blacken authors of vertebrate studies in the version made available to third parties/public.

### 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 2.2.1	Deepthi Prakash	2018	Determination of explosive properties of Fenazaquin 20% SC Eurofins report No. G 14027 GLP, Unpublished	N	SHARDA Cropchem Limited
KCP 2.2.2	Deepthi Prakash	2019	Oxidizing properties of fenazaquin 200 g/L SC. Eurofins Advinus Limited Study No. G14028 GLP Unpublished	N	Sharda
KCP 2.3.1	Deepthi Prakash	2018	Determination of flash point of Fenazaquin 20% SC Eurofins report No. G14029 GLP, Unpublished	N	SHARDA Cropchem Limited
KCP 2.3.3	Deepthi Prakash	2019	Determination of auto ignition temperature of Fenazaquin 20% SC Eurofins report No. G14034 GLP, Unpublished	N	SHARDA Cropchem Limited
KCP 2.5.1	Deepthi Prakash	2018	Determination of viscosity of Fenazaquin 20% SC Eurofins report No. G14030 GLP, Unpublished	N	SHARDA Cropchem Limited
KCP 2.5.2	Deepthi Prakash	2018	Determination of surface tension of aqueous solution of Fenazaquin 20% SC Eurofins report No. G 14031 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 2.6.2	Deepthi Prakash	2018	Determination of density and relative density of Fenazaquin 250% SC Eurofin repor tNo. G14032 GLP, Unpublished	N	SHARDA Cropchem Limited
KCP 2.7.1	Deepthi Prakash	2019	Accelerated storage stability test by heating at elevated temperature of fenazaquin 200 g/L EC. Eurofins Advinus Limited Study No. G14035 GLP Unpublished	N	Sharda

**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**

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

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

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

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

### **A 2.1            Fenazaquin**

Not relevant. There is no additional data on the active substance.