

## Evaluation Report for Category B, Subcategory 1.3, 4.6 Application

**Application Number:** 2011-5030  
**Application:** 1.3 – Change to Chemistry Specifications  
4.6 – Fulfill Conditions of Full Registration  
**Product:** Kixor  
**Registration Number:** 29369  
**Active ingredients (a.i.):** Saflufenacil  
**PMRA Document Number:** 2224790

### Background

Kixor, containing the active ingredient saflufenacil, was granted full registration with the condition of submitting analytical methods for residues in soil.

### Purpose of Application

The purpose of this application was to fulfill the condition of full registration and amend the specifications of Kixor.

### Chemistry Assessment

**Common Name:** Saflufenacil  
**IUPAC Name:** *N'*-{2-chloro-4-fluoro-5-[1,2,3,6-tetrahydro-3-methyl-2,6-dioxo-4-(trifluoromethyl)pyrimidin-1-yl]benzoyl}-*N*-isopropyl-*N*-methylsulfamide  
**CAS Name:** 2-chloro-5-[3,6-dihydro-3-methyl-2,6-dioxo-4-(trifluoromethyl)-1(2*H*)-pyrimidinyl]-4-fluoro-*N*-[[methyl(1-methylethyl)amino]sulfonyl]benzamide

Kixor has the following properties:

Property	Result								
Colour and physical state	White solid								
Nominal concentration	97.4%								
Odour	Odourless								
Density at 20°C	0.736 kg/L								
Vapour pressure	4.5 x 10 <sup>-15</sup> Pa at 20°C (extrapolated) 2.0 x 10 <sup>-14</sup> Pa at 25°C (extrapolated)								
pH	4.426 (1% suspension)								
Solubility in water	<table> <tr> <th>pH</th><th>solubility (g/100 mL)</th></tr> <tr> <td>4 (buffer)</td><td>0.0014</td></tr> <tr> <td>5 (buffer)</td><td>0.0025</td></tr> <tr> <td>7 (buffer)</td><td>0.21</td></tr> </table>	pH	solubility (g/100 mL)	4 (buffer)	0.0014	5 (buffer)	0.0025	7 (buffer)	0.21
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4 (buffer)	0.0014								
5 (buffer)	0.0025								
7 (buffer)	0.21								
n-Octanol/water partition coefficient (K <sub>ow</sub> )	Log K <sub>ow</sub> = 2.6								

The chemistry requirements for Kixor have been completed.

### Environmental Assessment

To address the condition of full registration, a more sensitive version of the analytical methods for soil with a level of quantitation (LOQ) of 0.5 ppb for use as a post-registration monitoring method was submitted. This new analytical method was deemed acceptable to address the condition of full registration.

### Value and Health Assessments

Value and health assessments were not required for this application.

### Conclusion

The PMRA has reviewed the data provided and has determined the condition of full registration has been fulfilled and the amended specifications are acceptable.

## References

2117671	2011, Re-Analysis of Saflufenacil TGAI with Re-assigned Analytical Reference Standard for the [CBI removed] (Reg. No. 5191018), DACO: 2.16 CBI
2117672	2011, Determination of Reg.No. 5191018 in Saflufenacil TGAI, DACO: 2.13.3 CBI
2109404	Validation of BASF Analytical Method D1101: "The Determination of Residues of Saflufenacil in Soil at 0.5 ppb using LC-MS/MS", BASF Study No. 394941, DACO: 8.2.2.1

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