

## Evaluation Report for Category B, Subcategory 1.3 Application

**Application Number:** 2014-1015  
**Application:** New / Changes TGAI or ISP Prod Chemistry-Specifications  
**Product:** Rimsulfuron Technical Herbicide  
**Registration Number:** 23517  
**Active ingredients (a.i.):** Rimsulfuron  
**PMRA Document Number:** 2496537

### Purpose of Application

The purpose of this application was to amend the product chemistry and the specifications of Rimsulfuron Technical Herbicide.

### Chemistry Assessment

**Common Name:** Rimsulfuron  
**IUPAC Chemical Name:** 1-(4,6-dimethoxypyrimidin-2-yl)-3-(3-ethylsulfonyl-2-pyridylsulfonyl)urea  
**CAS Chemical Name:** N-[[4,6-dimethoxy-2-pyrimidinyl]amino]carbonyl]-3-(ethylsulfonyl)-2-pyridinesulfonamide

Rimsulfuron Technical Herbicide has the following properties:

Property	Result						
Colour and physical state	colourless crystal						
Nominal concentration	Rimsulfuron at 99.0%						
Odour	none						
Specific Gravity at 25EC	0.784						
Vapour pressure	$1.5 \times 10^{-3}$ mPa						
pH	4.5						
Solubility in water	<10 mg/L (unbuffered) 7.3 g/L (buffered, pH 7)						
n-Octanol/water partition coefficient	<table border="0"> <tr> <td><u>pH</u></td> <td><u>Log K<sub>ow</sub></u></td> </tr> <tr> <td>5</td> <td>0.288</td> </tr> <tr> <td>7</td> <td>-1.47</td> </tr> </table>	<u>pH</u>	<u>Log K<sub>ow</sub></u>	5	0.288	7	-1.47
<u>pH</u>	<u>Log K<sub>ow</sub></u>						
5	0.288						
7	-1.47						

The chemistry requirements for Rimsulfuron Technical Herbicide have been fulfilled.

### **Health Assessments**

The technical grade active ingredient is considered to be toxicologically equivalent to the precedent product. No additional toxicological data was requested or required.

### **Environmental and Value Assessments**

Environmental and value assessments were not required for this application.

### **Conclusion**

The Pest Management Regulatory Agency has completed an assessment of the information provided and is able to support the amendments to the product chemistry and to the specifications of Rimsulfuron Technical Herbicide.

## References

PMRA Document Number	Reference
2405142	2013, Technical Grade Rimsulfuron (DPX-E9636) manufacturing description and formation of impurities, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.12.1 CBI
2405143	2013, Technical grade rimsulfuron manufacturing description and formation of impurities, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.12.1
2405149	2013, Batch analysis of rimsulfuron (DPX_E9636) Technical, DACO: 2.13.3 CBI
2463364	2013, validation of the analytical method for the determination of rimsulfuron technical grade rimsulfuron, DACO: 2.13.1
2463365	2012, Description and validation of the analytical methods for determinations of impurities in technique grade rimsulfuron , DACO: 2.13.1 CBI

ISSN: 1911-8082

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