

## Evaluation Report for Category B, Subcategory 1.1 Application

**Application Number:** 2020-0155  
**Application:** Changes to Technical Grade Active Ingredient Product Chemistry  
 – New Source (site) same registrant  
**Product:** UPI Bentazon Technical  
**Registration Number:** 32835  
**Active ingredient (a.i.):** Bentazon  
**PMRA Document Number :** 3260250

### Purpose of Application

The purpose of this application was to register another source of the active ingredient bentazon.

### Chemistry Assessment

Common Name: bentazone / bentazon (Canadian spelling)  
 IUPAC\* Chemical Name: 3-isopropyl-1*H*-2,1,3-benzothiadiazin-4(3*H*)-one 2,2-dioxide  
 CAS† Chemical Name: 3-(1-methylethyl)-1*H*-2,1,3-benzothiadiazin-4(3*H*)-one 2,2-dioxide

\* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

UPI Bentazon Technical has the following properties:

Property	Result										
Colour and physical state	White solid										
Nominal concentration	98.6%										
Odour	Odourless										
Density	1.4033 g/mL at 20°C										
Vapour pressure	$5.37 \times 10^{-6}$ Pa at 20°C										
pH	2.94 in 1% solution										
Solubility in water	<table border="0"> <thead> <tr> <th><u>pH</u></th> <th><u>Solubility (g/L)</u></th> </tr> </thead> <tbody> <tr> <td>5.08</td> <td>0.4846</td> </tr> <tr> <td>7.01</td> <td>0.8615</td> </tr> <tr> <td>9.00</td> <td>0.5826</td> </tr> <tr> <td>7</td> <td>0.570</td> </tr> </tbody> </table>	<u>pH</u>	<u>Solubility (g/L)</u>	5.08	0.4846	7.01	0.8615	9.00	0.5826	7	0.570
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	5.08	0.4846									
	7.01	0.8615									
9.00	0.5826										
7	0.570										

Property	Result
n-Octanol/water partition coefficient	LogP <sub>ow</sub> = -0.49 at 20°C

The required chemistry data for UPI Bentazon Technical have been provided, reviewed, and found to be acceptable.

### Health, Environmental and Value Assessments

Health, environmental and value assessments were not required for this application.

### Conclusion

The Pest Management Regulatory Agency has completed an assessment of the available information and has found it sufficient to register another source of the active ingredient bentazon.

### References

PMRA Document Number	References
3077784	2020, Product Identity and Composition, Description of the Materials Used, Description of the Production Process, Discussion of the Formation of Impurities, Certified Limits, and Enforcement Analytical Method for UPI Bentazon Technical, DACO: 2.1,2.11.1,2.11.2,2.11.3,2.11.4,2.12.1,2.13.1,2.2,2.3 CBI
3077785	2015, Five-Batch Analysis of Bentazone TGAI, DACO: 2.13.1,2.13.2,2.13.3, 2.13.4 CBI
3174527	2020, Response to Notice of Deficiencies for UPI Bentazon Technical, DACO: 2.11.1,2.11.2,2.11.3,2.13.3,2.13.4 CBI
3174528	2017, Manufacturing Process of Bentazone Technical Grade Active Substance, DACO: 2.11.1,2.11.2,2.11.3 CBI
3228134	2021, Analysis of [CBI REMOVED] content in Five Representative Production of Bentazone TC Grade Active Ingredient (TGAI) by [CBI REMOVED], DACO: 2.13.3,2.13.4 CBI

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