

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2023-5022
Application: Application subject to the Protection of Proprietary Interests in Pesticide Data Policy-Equivalency/Data Compensation Assessment
Applicant: Northern Cropscience Inc.
Product: NCS BENTAZON TECHNICAL
Registration Number: 35295
Active ingredient (a.i.): Bentazon
PMRA Document Number : 3608704

Purpose of Application

The purpose of this application was to register a new technical product based on a precedent product.

Chemistry Assessment

Common Name: bentazon
English 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

NCS BENTAZON TECHNICAL has the following properties:

| Property | Result |
|---------------------------------------|--------------------------------------|
| Colour and physical state | White solid |
| Nominal concentration | 98.86% |
| Odour | Odourless |
| Density | 1.41 g/mL at 20°C |
| Vapour pressure | 1.17 x 10 ⁻³ mPa at 20°C |
| pH | 2.92 |
| Solubility in water | 510.36 mg/L at 20°C |
| n-Octanol/water partition coefficient | log K _{ow} = 0.50 (pH 4.52) |

The required chemistry data for NCS 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 information provided, and has found the information acceptable to support the registration of NCS BENTAZONE TECHNICAL.

References

PMRA

Document

| Number | Reference |
|---------------|---|
| 3502454 | 2023, Preliminary Analysis and Enforcement Analytical Method of Bentazone Tech-Validation of Analytical Methodology for the Assay of Active Ingredient, Impurities and Subsequent 5-Batch Analysis of Bentazone Tech, DACO: 2.13.1, 2.13.2, 2.13.3, 2.13.4 CBI |
| 3502455 | 2023, Preliminary Analysis and Enforcement Analytical Method of Bentazone Tech-Validation of Analytical Methodology for the Assay of Active Ingredient, Impurities and Subsequent 5-Batch Analysis of Bentazone Tech - Attachment 1, DACO: 2.13.1, 2.13.2, 2.13.3, 2.13.4 CBI |
| 3502456 | 2023, Preliminary Analysis and Enforcement Analytical Method of Bentazone Tech-Validation of Analytical Methodology for the Assay of Active Ingredient, Impurities and Subsequent 5-Batch Analysis of Bentazone Tech - Attachment 2, DACO: 2.13.1, 2.13.2, 2.13.3, 2.13.4 CBI |
| 3502457 | 2023, Preliminary Analysis and Enforcement Analytical Method of Bentazone Tech-Validation of Analytical Methodology for the Assay of Active Ingredient, Impurities and Subsequent 5-Batch Analysis of Bentazone Tech - Confidential Attachment, DACO: 2.13.1, 2.13.2, 2.13.3, 2.13.4 CBI |
| 3502458 | 2023, Preliminary Analysis and Enforcement Analytical Method of Bentazone Tech-Validation of Analytical Methodology for the Assay of Active Ingredient, Impurities and Subsequent 5-Batch Analysis of Bentazone Tech - Report Amendment, DACO: 2.13.1, 2.13.2, 2.13.3, 2.13.4 CBI |
| 3502459 | 2023, Chemical and Physical Characterization of Bentazone TC: Color, Physical State, Odor, pH, Dissociation Constant, Density, Stability, Accelerated Storage Stability, UV-Vis, Solubility, Oxidation/reduction, Melting Point, Partition Coefficient, Flammability, Corrosion Characteristics, Explosivity and Vapor pressure, DACO: 2.14.1, 2.14.10, 2.14.11, 2.14.12, 2.14.13, 2.14.14, 2.14.15, 2.14.2, 2.14.3, 2.14.4, 2.14.6, 2.14.7, 2.14.8, 2.14.9, 830.7000 |
| 3502460 | 2023, Synthesis and Impurities of Bentazone Technical, DACO: 2.11.1, 2.11.2, 2.11.3, 2.11.4, 2.12.1, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9 CBI |

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