



## Evaluation Report for Category L, Subcategory 1.1 Application

**Application Number:** 2022-1362  
**Application:** Submissions subject to Protection of Proprietary Interests in Pesticide Data Policy – Equivalency/Data Compensation Assessment  
**Product:** ADAMA Thiencarbazone-methyl Technical  
**Registration Number:** 34850  
**Active ingredient (a.i.):** Thiencarbazone-methyl  
**PMRA Document Number:** 3430973

### Purpose of Application

The purpose of this application was to register the technical grade active ingredient, ADAMA Thiencarbazone-methyl Technical, based on a registered precedent product.

### Chemistry Assessment

**Common Name:** Thiencarbazone-methyl  
**IUPAC\* Chemical Name:** methyl 4- {[ (4,5-dihydro-3-methoxy-4-methyl-5-oxo-1*H*-1,2,4-triazol-1-yl)carbonyl]sulfamoyl} -5-methylthiophene-3-carboxylate  
**CAS† Chemical Name:** methyl 4-[[[(4,5-dihydro-3-methoxy-4-methyl-5-oxo-1*H*-1,2,4-triazol-1-yl)carbonyl]amino]sulfonyl]-5-methyl-3-thiophenecarboxylate

\* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

ADAMA Thiencarbazone-methyl Technical has the following properties:

| Property                  | Result                                       |
|---------------------------|--|
| Colour and physical state | Off-white solid                              |
| Nominal concentration     | 98.04%                                       |
| Odour                     | No odour                                     |
| Density                   | Specific gravity: 1.45 – 1.55                |
| Vapour pressure           | $9 \times 10^{-11}$ mPa (20°C, extrapolated) |
| pH                        | 3.5 – 4.0                                    |

| Property                              | Result                               |
|---------------------------------------|--------------------------------------|
| Solubility in water                   | <u>pH</u> <u>Solubility (mg/L)</u>   |
|                                       | distilled water 72.0                 |
|                                       | 4                              172.0 |
|                                       | 7                              436.0 |
|                                       | 9                              417.0 |
| n-Octanol/water partition coefficient | <u>pH</u> <u>log Kow</u>             |
|                                       | 9                  -2.14             |
|                                       | 7                  -1.9              |
|                                       | 4                  -0.13             |

The required chemistry data for ADAMA Thiencarbazone-methyl 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 ADAMA Thiencarbazone-methyl Technical.

### **Additional Information Being Requested**

Since this technical product is manufactured only at pilot scale before registration, five-batch data representing commercial-scale production at the approved manufacturing site will be required as post-market information after registration.

## References

| <b>PMRA Document Number</b> | <b>Reference</b>   |
|-----------------------------|--|
| 3337507                     | 2022, Chemistry - 2.1,2.3,2.3.1, 2.14.13 - Thiencarbazone TGAI - March 18, 2022, DACO: 2.1,2.14.13,2.2,2.3,2.3.1   |
| 3337508                     | 2021, Thiencarbazone-methyl Document J-CA - Manufacturing Process, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.12.1,2.13.1,2.13.2,2.13.3,2.13.4,2.2,2.4,2.5,2.6,2.7,2.8,2.9 CBI  |
| 3337509                     | 2021, Quantification of Active Ingredient and Impurities in Five Representative Batches of Thiencarbazone-methyl Technical, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI  |
| 3337511                     | 2021, SDS - Thiencarbazone-methyl Technical - March 2, 2021 - Colour, Physical State, Odour, DACO: 2.14.1,2.14.2,2.14.3  |
| 3337512                     | Tompkins, J., 2008, EPA Fact Sheet - Thiencarbazone-methyl, <a href="https://www3.epa.gov/pesticides/chem_search/reg_actions/registration/fs_PC-015804_30-Oct-08.pdf">https://www3.epa.gov/pesticides/chem_search/reg_actions/registration/fs_PC-015804_30-Oct-08.pdf</a> , DACO: 2.14.10,2.14.11,2.14.12,2.14.4,2.14.6,2.14.7,2.14.8,2.14.9 |
| 3423650                     | 2023, Thiencarbazone-methyl Document J-CA - Manufacturing Process - Revised, DACO: 2.11.3 CBI  |

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