

**Section 12 Notice                      Additional Information Required to Fulfill the Terms and Conditions for Conditional Registration**

***Product Name: NUFARM MECOPROP-P TECHNICAL ACID***

***Registration Number: 27631***

***Application Number: 2006-7936***

***PMRA #: 1440574***

During the conditional registration period which has been granted to December 31, 2007, the following information is to be generated and must be provided to the Pest Management Regulatory Agency by **December 1, 2008** and must indicate the DACO numbers specified. A partial response to the outlined Terms and Conditions will not be accepted.

The Pest Management Regulatory Agency's decision to grant temporary registration of the subject technical product containing the isomer specific form of mecoprop-p for use in Canada is based on the following conditions:

**Please note that if the data requirements presented (specifically Parts 6 and 7) in order to support current food uses are not addressed, the currently registered food uses appearing on end use products containing mecoprop will be discontinued.**

**PART 4                      TOXICOLOGY**

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**DACO:**                      4.4.4  
**Title:**                      Rat combined chronic and oncogenicity

**Required DATA:**      **A new rat combined oncogenicity and long-term toxicity study conducted with mecoprop-p at adequate dose levels.**

**PARTS 6 and 7              METABOLISM/TOXICOKINETICS STUDIES and FOOD, FEED AND TOBACCO RESIDUE STUDIES**

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The residue chemistry data requirements for the registration of mecoprop-p are detailed in the PMRA Regulatory Directive 98-02, Residue Chemistry Guidelines (RCG). As the existing data used to initially register mecoprop racemic do not meet contemporary standards, mecoprop-p specific data which meets the requirements set forth in the RCG need to be submitted. This summary is based on the proposed registration of mecoprop-p, (*R*)-2-(4-chloro-*O*-tolylxy) propionic acid, on the same crops which mecoprop racemic, (*RS*)-2-(4-chloro-*O*-tolylxy) propionic acid, is currently registered.

### Available Data

No contemporary data is on file for mecoprop or mecoprop-p to cover the data requirements for DACO 6 (Nature of the Residue) or DACO 7 (Food and Feed Residue Studies).

### Bioequivalency of Forms

The bioequivalency of mecoprop and mecoprop-p has not been established. Any submitted data based on the mecoprop racemic must provide a rationale for the translation and applicability of racemic data to support registration of the isomerically pure mecoprop-p.

### Additional Data Requirements

*Drinking Water* - As the dietary risk assessment includes exposure from drinking water, suitable quantitative data to estimate the concentration of mecoprop-p in drinking water will be required. The available drinking water surveillance data for mecoprop is either from regional or foreign sources, and is not suitable to support registration of a new active.

**Table 2: Mecoprop-p Required Studies (USC 13-14 Terrestrial Feed and Food Crops)**

| <b>Data Code</b> | <b>Title</b>   | <b>Conditions</b> | <b>Relevant Section in DIR98-02 Residue Chemistry Guidelines (RCG)</b> |
|------------------|--|-------------------|--|
| <b>6</b>         | <b>Metabolism/Toxicokinetics Studies (TGAI or EP)</b>            |                   | Nature of the Residue<br>RCG § 2                                       |
| 6.1              | Summaries  |                   |  |
| 6.2              | Livestock  |                   |  |
| 6.3              | Plants   |                   |  |
| 6.4              | Other Studies/Data/Reports                                       | If available      |  |
| <b>7</b>         | <b>Food, Feed and Tobacco Residue Studies EP</b>                 |                   |  |
| 7.1              | Summaries  |                   |  |
| <b>7.2</b>       | <b>Analytical Methodology (Food Crops &amp; Tobacco)</b>         |                   | Residue Analytical Methods<br>RCG § 3                                  |
| 7.2.1            | Supervised Residue Trial Analytical Methodology                  |                   |  |
| 7.2.2            | Enforcement Analytical Methodology                               |                   |  |
| 7.2.3            | Inter-laboratory Analytical Methodology Validation               |                   |  |
| 7.2.4            | Multi-residue Analytical Methodology Evaluation                  |                   | Residue Analytical Methods<br>RCG § 4                                  |
| 7.2.5            | Storage Stability of Working Solutions in Analytical Methodology |                   | Storage Stability Data<br>RCG § 5                                      |

|            |   |  |   |
|------------|---|--|---|
| 7.3        | Freezer Storage Stability Tests   | If stored for more than 30 days and/or volatile or labile Studies required |   |
| <b>7.4</b> | <b>Crop Residue Data</b>  |  | Crop Field Trials<br>RCG § 9                          |
| 7.4.1      | Supervised Residue Trial Studies  |  |   |
| 7.4.2      | Residue Decline Studies   |  |   |
| 7.4.3      | Confined Crop Rotation Trial Studies  |  | Confined Accumulation in Rotational Crops<br>RCG § 13 |
| 7.4.4      | Field Crop Rotation Trial Studies   |  | Field Accumulation in Rotational Crops<br>RCG § 14    |
| 7.4.5      | Processed Food/Feed   |  | Processed Food/Feed<br>RCG § 10                       |
| 7.4.6      | Residue Data for Crops used as Livestock Feed (if needed for forage crops)    |  |   |
| 7.5        | Livestock, Poultry, Egg and Milk Residue Data (from feeding of treated crops) |  | Meat/Milk/Poultry/Eggs<br>RCG § 8                     |
| 7.7        | Tobacco Residue Data  | Depends on label instructions  |   |
| 7.8        | Other Studies/Data/Reports  | If available   |   |

**DACO 6.2: Animal Metabolism**

Studies are required for ruminants (goat, cow), poultry and swine. If the metabolism in rat toxicology studies is similar to that in ruminants and poultry, then the requirement for a swine metabolism study may be waived.

**DACO 6.3: Plant Metabolism**

Studies are required on representative crops for which mecoprop-p registration is proposed. Section 15 of the RCG identifies representative crops and crop groups. For grains, these are wheat, barley and corn. Section 2 of the RCG indicates the scope and purpose of the required metabolism studies.

**DACO 7.4: Field Trials**

Based on the current label uses for mecoprop and Table 2 in Section 9, Appendix III of the RCG, the required field trials are summarized in Table 3, below. Details on the required sample size for agricultural commodities from supervised field trials for residue analysis can be found in Section 9, Appendix I of the RCG.

| RAC               | Field Trials     | Samples Required | Crop Zones |    |    |   |    |    |    |    |
|-------------------|------------------|------------------|------------|----|----|---|----|----|----|----|
|                   |                  |                  | 5          | 5A | 5B | 7 | 7A | 12 | 14 |    |
|                   |                  | 1                |            |    |    |   |    |    |    |    |
| Barley            | 16               | 32               |            | 1  |    | 1 | 2  |    |    | 12 |
| Corn (Grain)      | 12               | 24               |            | 8  |    | 4 |    |    |    |    |
| Corn (Silage)     | 5                | 10               |            | 3  |    | 2 |    |    |    |    |
| Corn (Sweet)      | 8                | 16               |            | 4  |    | 2 |    | 1  | 1  |    |
| Oats              | 16               | 32               | 1          | 1  | 1  | 1 | 2  |    |    | 10 |
| Wheat             | 20               | 40               |            | 2  |    |   | 7  | 1  |    | 10 |
| Forage and Fodder | To be determined |                  |            |    |    |   |    |    |    |    |

| Zone | Name             | Zone | Name             |
|------|------------------|------|------------------|
| 1    | Appalachian      | 7    | Dryland Prairie  |
| 5    | Southern Ontario | 7A   | Southern Alberta |
| 5A   | Atlantic         | 12   | Pacific          |
| 5B   | Northern Shield  | 14   | Northern Prairie |

| <b>PART 10</b>        | <b>VALUE</b>  |
|-----------------------|---|
| <b>DACO:</b>          | 10.2.3  |
| <b>Title:</b>         | Efficacy  |
| <b>Required DATA:</b> | <b>Bridging efficacy data establishing equivalency between the mecoprop racemic and the mecoprop-p.</b>       |
| <b>DACO:</b>          | 10.3.2  |
| <b>Title:</b>         | Nonsafety Adverse Effects   |
| <b>Required DATA:</b> | <b>Bridging crop tolerance data establishing equivalency between the mecoprop racemic and the mecoprop-p.</b> |