**ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Pesticide Contamination Prevention Program**

**Data Summary Form**

DO NOT REGISTER ANY AGRICULTURAL USE PRODUCT PRIOR TO COMPLETION AND APPROVAL OF THE ACTIVE INGREDIENT DATA SUBMISSION!

The Data Call-In review/approval for new pesticide active ingredients under A.R.S. §49-302(F) and A.A.C. R18-6-102 of the Pesticide Contamination Prevention Program is subject to the requirements of the licensing time frame statute under A.R.S. §§ 41-1072 through 41-1079 and the licensing time frame rule A.A.C. R18-1-501 through R18-1-525. Administrative Completeness Review Time Frame is 62 days. Substantive Review Time frame is 124 days.

Company Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Company Address: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_

Street City State Zip code

Section I of this form must be completed for each product your company intends to register in Arizona for agricultural use. Sections II-III must be completed for each active ingredient (A.I.) in each product. If more than one product is registered that contains a particular A.I, then Sections II-III may be completed once and a photocopy of that section attached to each Data Summary Form (Section I) prepared for the products containing that A.I.

**SECTION I - PRODUCT INFORMATION**

**1. Product Brand Name:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**2. EPA Registration No:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. **Active Ingredient(s) in Product**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Common Chemical Name(s) PC Code(s)

4.Formulation **category** (e.g., wettable powder, granular, emulsifiable concentrate, etc.) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5.Type of pesticide(please circle): □insecticide, □fungicide, □herbicide, □plant growth regulator, □fumigant, □other (please describe) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6**. Intended use(s)** (check all applicable categories):

|  |  |  |
| --- | --- | --- |
| TERRESTRIAL (Ag use only) | AQUATIC | OTHER |
| * Food crop uses (e.g. field crop, orchard, vegetables) * Agricultural turf (sod, seed, or turf farms) * Commercial greenhouses, nurseries, ornamental production * Forestry, incl. tree farms * Range and pasture uses * Grazed rights-of-way, roadsides, shelter belts, and related uses * Other (please explain) | * Aquatic impact uses resulting in direct discharges * Aquatic food crop uses * Aquatic non-crop uses (products intended for application to irrigation ditch banks and shorelines) * Aquatic non-crop uses (incl. antifouling paints and/or other outdoor protective uses) * Other (please explain) | * Animal dips * Soil Fumigants * Ground applied liquids * Ground applied baits or seed protectants * Combined product * Product recommended for tank mix * Other (Please explain) |

7. Method of applications (check all that apply): □aerial, □ground, □orchard air blast, □soil injection, □other (please describe) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**SECTION II** – MOBILITY AND PERSISTENCE RESULTS

A. ACTIVE INGREDIENT (A.I.) DATA

* If the units in which values are reported differ from those printed on this form, then write in the units as they appear in submitted report. EPA guidelines make it optional to perform certain tests at either 20ºC or 25ºC. In the interest of consistency ADEQ would prefer that solubility, density, bulk density or specific gravity, be determined at 25ºC. Henry’s Law and the octanol-water partition coefficient (Kow) must be at 25ºC.
* The letter/number in parentheses after a study type refers to Subdivision/Section in EPA's Pesticide Assessment Guidelines. Study ID may be EPA MRID or company’s own study # for reference purposes.
* Provide CAS number where available for degradation products >10% of applied dose.

**1. Specify active ingredient** for which the following data is being submitted.

a. Technical Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b. Common Chemical Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

CAS No.

.

**2. Molecular Weight** (D-61-1) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Study ID: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**3. Density/Bulk Density** (solid) \_\_\_\_\_\_\_\_\_\_\_\_\_g/cm3 Study ID: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Specific Gravity** (liquid) @ 25ºC (D-63-7)2 \_\_\_\_\_\_\_\_\_\_\_\_\_g/ml Study ID: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4. Solubility** (D-63-8) (Specify solvent used in 4b-d) Study ID: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. Distilled Water \_\_\_\_\_\_\_\_ g/l00 ml @ \_\_\_\_\_\_ ºC

b. Polar Solvent - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ g/l00 ml @ \_\_\_\_\_\_ ºC

c. Non-Polar Solvent - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ g/l00 ml @ \_\_\_\_\_\_ ºC

d. Other Solvent - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ g/l00 ml @ \_\_\_\_\_\_ ºC

**5. Vapor Pressure** (D-63-9) \_\_\_\_\_\_\_\_\_ mm Hg @ 25ºC Study ID: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**6. Octanol-Water Partition Coefficient (Kow)** (D-63-1) \_\_\_\_\_\_\_\_\_\_\_\_ @ 25ºC Study ID: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**7. Henry's Law Constant** \_\_\_\_\_\_\_\_\_\_\_ atm m3g-mol-1 @ 25ºC Study ID: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(Liquid-vapor partition)

**8. Photolysis**  Half life (days) Rate Constant Reaction Order Study ID

a. Water (N-161-2) @ 25 ± 1ºC \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_

b. Air (N-161-4) @ 30 ± 1ºC \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_

c. Soil (N-161-3) \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Soil characteristics: (1) \_\_\_\_\_\_ % organic matter; (2) \_\_\_\_\_ % sand; (3) \_\_\_\_\_ % clay; (4) \_\_\_\_\_\_ % silt;

(5) \_\_\_\_\_\_ % moisture; (6) bulk density \_\_\_\_\_\_ g/cm3 ; (7) \_\_\_\_\_\_ pH

d. Photo product(s) identified in >10% yield: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**9. Hydrolysis (N-161-1)** Study ID: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Half-life tl/2 (days) Rate Constant Reaction Order

pH 5 @ 25ºC \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_

pH 7 @ 25ºC \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_

pH 9 @ 25ºC \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_

Hydrolysis product(s) identified in >10% yield: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**SECTION II (Continued)**

**10. Metabolism**

**a. Soil-aerobic** (N-162-1) Study ID: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Number of studies being submitted: \_\_\_\_\_\_\_\_\_\_\_

2. List residues of the A.I. and its metabolites occurring in concentrations > 10% (dry weight): \_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. Half-life (t½) (reported in days): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Soil characteristics: (1) \_\_\_\_\_ % organic matter; (2) \_\_\_\_\_ % sand; (3) \_\_\_\_\_ % clay; (4) \_\_\_\_\_ % silt;

(5) \_\_\_\_\_\_ % moisture; (6) bulk density - \_\_\_\_\_\_ g/cm3; (7) \_\_\_\_\_\_ pH

**b. Soil-anaerobic** (N-162-2) Study ID: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Number of studies being submitted: \_\_\_\_\_\_\_\_\_\_

2. List residues of the A.I and its metabolites occurring in concentrations >10% (dry weight): \_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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3. Half-life (t½) (reported in days): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**11. Soil Adsorption Coefficient** (soil/water relationship) Kd (N-163-1) Study ID: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Fill in the Kd value for the parent compound and major metabolites and the soil characteristic(s) values for each soil in which the Kd was determined.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Koc\* | Kd\* | Molecule (CAS #), if available | Method Used | Soil Characteristics | | | | | | | |
| %  Organic Matter | %  Sand | %  Clay | %  Silt | %  Moisture | Bulk density (g/cm3) | Soil pH | Cation exchange Capacity |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  | \* Indicate if the reported Koc or Kd is for parent compound or metabolite >10% of applied dose (specify which metabolite). | | | | | | | | | | |

B. FIELD DISSPIATION RESULTS - For each study performed provide the following information:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| TYPE OF FIELD DISSIPATION STUDY (terrestrial, aquatic, etc.) / LOCATION OF STUDY (City/State) | Date of Report (Study ID) | Soil Characteristics | | | | | | |
| % OM | % Sand | % Clay | % Silt | Soil pH | Half-life (days) of test substance in various media | |
| t½ | Medium |
| Molecule+(CAS #) - | | | | | | | | |
|  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Molecule+ (CAS #) - | | | | | | | | |
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|  |  |  |  |  |  |  |  |  |
| + Indicate if reported half-life is for parent compound or metabolite >10% of applied dose (specify which metabolite). | | | | | | | | |
| COMMENTS: | | | | | | | | |

SECTION III – DATA SUMMARY (A.A.C. R18-6-103)

1. Summary of Physio-Chemical properties compared to ADEQ Specific Numeric Values (SNVs)

|  |  |  |  |
| --- | --- | --- | --- |
| Parameters | ADEQ SNVs | Observed Values | Comments |
| **Mobility Factors** | | | |
| Water Solubility (pH=7) | >30 ppm |  |  |
| Soil Adsorption Coefficient | < 5 |  |  |
| **Persistence Factors** | | | |
| Hydrolysis half life (pH=7) | >175 days |  |  |
| Aerobic half life | >21 days |  |  |
| Anaerobic half life | >21 days |  |  |
| Field dissipation half life | >21 days |  |  |
| **Additional factors** (photolysis, lysimeter studies, etc.) | | | |
|  |  | | |

2. Environmental Fate Summary:

A. Fate in Soil: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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B. Fate in Water: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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3. Comments: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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* **I am an authorized representative of the original data owner.**
* **I have permission from the original data owner to cite and or rely on the above data (Please enclose copy of *New Agricultural Use Pesticide Evaluation Form* and the *Letter of Authorization (LOA)*)**

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name and Title of Authorized Representative Signature of Authorized Representative

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E-mail address Phone Number

Send Data Summary Form and complete studies to:

**Arizona Department of Environmental Quality**

Groundwater Section

Pesticide Program Coordinator

1110 West Washington Street, 5415B-3

Phoenix, AZ 85007