

**PEST MANAGEMENT REGULATORY AGENCY**

**DATA REQUIREMENTS FOR**

**USE SITE CATEGORY (USC # 32): Various Outdoor Sites - EP**

<b>Data Code</b>	<b>Title</b>	<b>Data required</b>	<b>Conditions</b>	<b>Volume Number and Pages</b>
<b>0</b>	<b>Index</b>	<b>R</b>		
<b>1</b>	<b>Label</b>	<b>R</b>		
<b>3</b>	<b>Chemistry Requirements for the Registration of Manufacturing Concentrates and End-Use Products Formulated from Registered technical grade of active ingredients or integrated system products.</b>			
<b>3.1</b>	<b>Product Identification</b>			
3.1.1	Applicant's Name and Office Address	R		
3.1.2	Formulating Plant's Name and Address	R		
3.1.3	Trade Name	R		
3.1.4	Other Names	R		
<b>3.2</b>	<b>Formulation Process</b>			
3.2.1	Description of Starting Materials	R		
3.2.2	Description of the Formulation Process	R		
3.2.3	Discussion of the Formation of Impurities of Toxicological Concern	CR	If applicable.	
<b>3.3</b>	<b>Specifications</b>			
3.3.1	Establishing Certified Limits	R		
3.3.2	Control Product Specification Form	R		
<b>3.4</b>	<b>Product Analysis</b>			
3.4.1	Enforcement Analytical Method	R		
3.4.2	Impurities of Toxicological Concern	CR	If applicable.	
<b>3.5</b>	<b>Chemical and Physical Properties</b>			
3.5.1	Colour	CR	Required for manufacturing concentrates only	
3.5.2	Physical State	R		
3.5.3	Odour	CR	Required for manufacturing concentrates only	
3.5.4	Formulation Type	R		
3.5.5	Container Material and Description	R		
3.5.6	Density or Specific Gravity	R	See 8.2.1	
3.5.7	pH	R		
3.5.8	Oxidizing or Reducing Action (Chemical Incompatibility)	R		
3.5.9	Viscosity	R		
3.5.10	Storage Stability Data	R		
3.5.11	Flammability	R		
3.5.12	Explosibility	R		
3.5.13	Miscibility	R		
3.5.14	Corrosion Characteristics	R		
3.5.15	Dielectric Breakdown Voltage	R		
3.6	Sample(s)	CR	If requested by PMRA	

Data Code	Title	Data required	Conditions	Volume Number and Pages
3.7	Other Studies/Data/Reports	CR	If available	
<b>4</b>	<b>Toxicology</b>			
4.1	Summaries	R		
<b>4.6</b>	<b>Acute Studies — EP</b>			
4.6.1	Acute Oral	R		
4.6.2	Acute Dermal	R		
4.6.3	Acute Inhalation	R		
4.6.4	Primary Eye Irritation	R		
4.6.5	Primary Dermal Irritation	R		
4.6.6	Dermal Sensitization	R		
4.6.7	Potential/Interaction	CR	If available	
4.6.8	Other Acute Studies	CR	If available	
<b>4.7</b>	<b>Short-term Studies — EP</b>	CR	Depending on use pattern, required if any component of the EP may increase absorption of the active ingredient(s) or increase toxic or pharmacologic effects	
4.7.1	Short-term Oral (90-day rodent)	CR	See 4.7	
4.7.2	Short-term Oral (90-day and/or 12-month dog)	CR	See 4.7	
4.7.3	Short-term Dermal (90-day)	CR	See 4.7	
4.7.4	Short-term Dermal (21/28-day)	CR	See 4.7	
4.7.5	Short-term Inhalation (21/28-day)	CR	See 4.7	
4.7.6	Short-term Inhalation (90-day)	CR	See 4.7	
4.7.7	Other Special Studies	CR	See 4.7	
4.8	Other Studies/Data/Reports	CR	If available	
<b>5</b>	<b>Exposure (Occupational and/or Bystander)</b>			
5.1	Summaries	R		
5.2	Use Description/Scenario (Application and Post Application)	R		
5.4	Mixer/Loader/Applicator- Passive Dosimetry Data	CR	One of 5.4 or 5.5 is required if there is potential for exposure	
5.5	Mixer/Loader/Applicator-Biological Monitoring Data	CR	See 5.4	
5.8	Dermal Absorption	CR	May be required if the margin of safety is inadequate	
5.11	Glove/Clothing Penetration Data	CR	May be required for risk mitigation purposes or for inadequate margin of safety	
5.13	Package Integrity Study	CR	Required if packaged in water soluble bags	
5.14	Other Studies/Data/Reports	CR	If available	
<b>8</b>	<b>Environmental Chemistry and Fate</b>			
8.1	Summaries	R		
<b>8.2</b>	<b>Laboratory Studies</b>			
8.2.1	Summary of Physicochemical Properties to Include, Solubility in Water, Vapour Pressure, Octanol:Water Partition Coefficient, Dissociation Constant, UV-Visible Absorption, Density or Specific Gravity (See parts 2 and 3)	R	See 2.14.7, 2.14.9, 2.14.11, 2.14.10, 2.14.13, 2.14.6, and 3.5.6	
<b>8.2.3</b>	<b>Laboratory Studies of Transformation</b>			

<b>Data Code</b>	<b>Title</b>	<b>Data required</b>	<b>Conditions</b>	<b>Volume Number and Pages</b>
8.2.3.1	Summary	R		
8.2.3.6	Special Studies Related to Use-Pattern or Formulation	CR		
<b>8.2.4</b>	<b>Laboratory Studies of Mobility</b>			
8.2.4.1	Summary	CR		
8.2.4.6	Special Studies Related to Use-Pattern or Formulation	CR		
<b>8.3</b>	<b>Field Studies of Dissipation/Accumulation [May be Small or Large-Scale]</b>			
8.3.1	Summary	R		
8.3.4	Special Studies Related to Intended Use Pattern	CR	Based on concerns arising from results of other studies	
<b>8.4</b>	<b>Storage, Disposal and Decontamination (TGAI or EP)</b>			
8.4.1	Summary	R		
<b>8.5</b>	<b>Other Environmental Fate Studies (TGAI or EP)</b>			
8.5.1	Summary	CR	Based on concerns arising from results of other studies	
8.6	Other Studies/Data/Reports	CR	If available	
<b>9</b>	<b>Environmental Toxicology</b>			
9.1	Summary	CR		
<b>9.2</b>	<b>Non-Target Terrestrial Invertebrates</b>			
9.2.1	Summary	R		
9.2.8	Laboratory Studies	CR	If there is a potential for exposure and components of the EP are of concern	
9.2.9	Field Studies	CR	Based on concerns arising from results of other studies	
<b>9.3</b>	<b>Non-Target Freshwater Invertebrates</b>			
9.3.1	Summary	CR		
9.3.5	Laboratory Studies	CR	If components of the EP are of concern	
9.3.6	Field Studies	CR	Based on concerns arising from results of other studies	
<b>9.5</b>	<b>Fish</b>			
9.5.1	Summaries	CR		
9.5.4	Laboratory Studies	CR	If components of the EP are of concern	
9.5.5	Field Studies	CR	Based on concerns arising from results of other studies	
<b>9.6</b>	<b>Wild Birds</b>			
9.6.1	Summary	CR		
9.6.4	Laboratory Studies	CR	If there is a potential for exposure and components of the EP or the EP itself (e.g., granular formulations, pellets or baits) are of concern.	
9.6.5	Field Studies	CR	Based on concerns arising from results of other studies	
9.6.6	Special Studies Related to the Intended Use-Pattern (TGAI or EP)	CR	See 9.6.5	
<b>9.7</b>	<b>Wild Mammals</b>			

Data Code	Title	Data required	Conditions	Volume Number and Pages
9.7.1	Summary	CR	Based on concerns arising from results of other studies	
9.7.2	Field Studies	CR	See 9.7.1	
<b>9.8</b>	<b>Non-Target Plants</b>			
9.8.1	Summary	CR		
9.8.6	Laboratory Studies	CR	If components of the EP are of concern	
9.8.7	Field Studies	CR	Based on concerns arising from results of other studies	
9.9	Other Studies/Data/Reports	CR	If available	
<b>10</b>	<b>Value (applicable to each pest/site or host combination)</b>			
10.1	Value Summaries	R		
<b>10.2</b>	<b>Efficacy Studies</b>			
10.2.1	Mode of Action	R		
10.2.2	Description of Pest Problem	R		
<b>10.2.3</b>	<b>Efficacy Trials</b>			
10.2.3.1	Summaries	R		
10.2.3.2	Efficacy: Laboratory, Growth Chamber Trials	CR		
10.2.3.3	Efficacy: Small-scale Trials (Field, Greenhouse)	R	One or both of 10.2.3.3 or 10.2.3.4 may be required	
10.2.3.4	Efficacy: Operational Trials	CR	See 10.2.3.3	
<b>10.3</b>	<b>Adverse Effects on Use Site</b>			
10.3.1	Summaries	R		
10.3.2	Non-Safety Adverse Effects [e.g.: to crop, site of application (discoloration, corrosion), etc.]	R		
10.3.3	Damage to Rotational Crops	CR		
10.4	Economics	CR		
<b>10.5</b>	<b>Sustainability</b>			
10.5.1	Survey of Alternatives (chemical and non-chemical)	CR		
10.5.2	Compatibility with Current Management Practices Including IPM	CR		
10.5.3	Resistance Management	CR		
10.5.4	Contribution to Risk Reduction	CR		
10.6	Other Studies/Data/Reports	CR	If available	
<b>12.5</b>	<b>Foreign Reviews</b>			
12.5.3	Foreign Reviews of Chemistry Requirements for MAs and EPs formulated from registered TGAI's or ISP's			
12.5.4	Foreign Reviews of Toxicology			
12.5.5	Foreign Reviews of Exposure (Occupational and/or Bystander)			
12.5.8	Foreign Reviews of Environmental Chemistry and Fate			
12.5.9	Foreign Reviews of Environmental Toxicology			
12.5.10	Foreign Reviews of Value			
<b>12.7</b>	<b>Comprehensive Data Summaries</b>			

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