

PEST MANAGEMENT REGULATORY AGENCY

DATA REQUIREMENTS FOR

USE SITE CATEGORY (USC # 33): Residential Outdoor - TGAI

Data Code	Title	Data required	Conditions	Volume No and Pages
0	Index	R		
1	Label	R		
2	Chemistry requirements for the registration of a technical grade of active ingredient (TGAI) or an integrated system product.			
2.1	Applicant's Name and Office Address	R		
2.2	Manufacturer's Name and Office Address and Manufacturing Plant's Name and Address	R		
2.3	Product Trade Name	R		
2.3.1	Other Names	R		
2.4	Common Name	R		
2.5	Chemical Name	R		
2.6	Chemical Abstracts Registry Number	R		
2.7	Structural Formula	R		
2.8	Molecular Formula	R		
2.9	Molecular Weight	R		
2.11	Manufacturing Methods for the TGAI			
2.11.1	Manufacturing Summary	R		
2.11.2	Description of Starting Materials	R		
2.11.3	Detailed Production Process Description	R		
2.11.4	Discussion of Formation of Impurities	R		
2.12	Specifications			
2.12.1	Establishing Certified Limits	R		
2.12.2	Control Product Specification Form	R		
2.13	Preliminary Analysis			
2.13.1	Methodology/Validation	R		
2.13.2	Confirmation of Identity	R		
2.13.3	Batch Data	R		
2.13.4	Impurities of Toxicological Concern	CR	If applicable	
2.14	Chemical and Physical Properties			
2.14.1	Colour	R		
2.14.2	Physical State	R		
2.14.3	Odour	R		
2.14.4	Melting Point / Melting Range	R	Solid at room temperature.	
2.14.5	Boiling Point / Boiling Range	R	Liquid at room temperature.	
2.14.6	Density or Specific Gravity	R		
2.14.7	Water Solubility (mg/L)	R	See 8.2.1	
2.14.8	Solvent Solubility (mg/L)	R		
2.14.9	Vapour Pressure	R	See 8.2.1	
2.14.10	Dissociation Constant	R	See 8.2.1	

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Data Code	Title	Data required	Conditions	Volume No and Pages
2.14.11	Octanol/Water Partition Coefficient	R	See 8.2.1	
2.14.12	UV/Visible Absorption Spectra	R	See 8.2.1	
2.14.13	Stability (Temperature, Metals)	R		
2.14.14	Storage Stability Data	CR	Required for integrated system products	
2.15	Sample(s) of Analytical Standards and ROC	R		
2.16	Other Studies/Data/Reports	CR	If available	
4	Toxicology			
4.1	Summaries	R		
4.2	Acute Studies - TGAI			
4.2.1	Acute Oral	R		
4.2.2	Acute Dermal	R		
4.2.3	Acute Inhalation	R		
4.2.4	Primary Eye Irritation	R		
4.2.5	Primary Dermal Irritation	R		
4.2.6	Dermal Sensitization	R		
4.2.7	Potentiation/Interaction	CR	If available	
4.2.8	Antidote	CR	If available	
4.2.9	Other Acute Studies	CR	If available	
4.3	Short-term Studies — TGAI			
4.3.1	Short-term Oral (90-day rodent)	R		
4.3.2	Short-term Oral (90-day and/or 12-month dog)	CR	If available	
4.3.3	Short-term Oral (28-day)	CR	If available	
4.3.4	Short-term Dermal (90-day)	CR	If available	
4.3.5	Short-term Dermal (21/28-day)	R		
4.3.6	Short-term Inhalation (90-day)	CR	Required if there is the likelihood of significant repeated inhalation exposure to the product as a gas, vapor or aerosol	
4.3.7	Short-term Inhalation (21/28-day)	CR	If available	
4.3.8	Other Short-term Studies	CR	If available	
4.4	Long-term Studies — TGAI			
4.4.1	Chronic (rodent)	R	4.4.1 and 4.4.2 could be submitted as a combined study under 4.4.4	
4.4.2	Oncogenicity (rodent species 1)	R	4.4.1 and 4.4.2 could be submitted as a combined study under 4.4.4	
4.4.3	Oncogenicity (rodent species 2)	R		

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Data Code	Title	Data required	Conditions	Volume No and Pages
4.4.4	Combined Chronic/Oncogenicity (rodent)	CR	4.4.1 and 4.4.2 could be submitted as a combined study under 4.4.4	
4.4.5	Other Long-term Studies	CR	If available	
4.5	Special Studies — TGAI			
4.5.1	Multigeneration Reproduction (rodent)	R		
4.5.2	Prenatal Developmental Toxicity (rodent)	R		
4.5.3	Prenatal Developmental Toxicity (non-rodent)	R		
4.5.4	Genotoxicity: Bacterial Reverse Mutation Assay	R		
4.5.5	Genotoxicity: In vitro Mammalian Cell Assay	R		
4.5.6	Genotoxicity: In vitro Mammalian Clastogenicity	CR	Required if not addressed in study submitted for 4.5.5	
4.5.7	Genotoxicity: In vivo Cytogenetics	R		
4.5.8	Other Genotoxicity Studies	CR	If available	
4.5.9	Metabolism/Toxicokinetics in Mammals (laboratory animals)	R		
4.5.10	Acute Delayed Neurotoxicity (hen)	CR	Required if the test substance is an organophosphorus substance or is structurally related to other substances that may cause delayed neurotoxicity	
4.5.11	28-day Delayed Neurotoxicity (hen)	CR	Required if results of acute delayed neurotoxicity study indicates effects, or if other available data indicate the potential for this type of delayed neurotoxicity	
4.5.12	Acute Neurotoxicity (rat)	CR	Required if there is neurotoxic potential	
4.5.13	90-day Neurotoxicity (rat)	CR	Required if there is neurotoxic potential	

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Data Code	Title	Data required	Conditions	Volume No and Pages
4.5.14	Developmental Neurotoxicity	CR	Required if neurological effects are observed in other studies Should be considered if test substance: i) causes neuropathology or neurotoxicity in adults; ii) is hormonally active <i>in vivo</i> ; or iii) causes other types of nervous system involvement at a developmental stage	
4.8	Other Studies/Data/Reports	CR	If available	
8	Environmental Chemistry and Fate			
8.1	Summaries	R		
8.2	Laboratory Studies			
8.2.1	Summary of Physicochemical Properties to Include, Solubility in Water, Vapour Pressure, Dissociation Constant, Octanol:Water Partition Coefficient, UV-Visible Absorption (See part 2), (TGAI)	R	Data submitted under 2.14.7, 2.14.9, 2.14.10, 2.14.11, and 2.14.13	
8.2.2	Analytical Methodology (parent compound and transformation products)			
8.2.2.1	Soil	R		
8.2.2.2	Sediment	CR	If there is a potential for aquatic exposure	
8.2.2.3	Water	CR	See 8.2.2.2	
8.2.2.4	Biota	R		
8.2.3	Laboratory Studies of Transformation			
8.2.3.1	Summary	R		
8.2.3.2	Hydrolysis	R		
8.2.3.3	Phototransformation			
8.2.3.3.1	Soil	CR	If not hydrolysed or biotransformed (i.e., persistent)	
8.2.3.3.2	Water	CR	If there is a potential for aquatic exposure	
8.2.3.4	Biotransformation in Soil			
8.2.3.4.2	Aerobic Soil 20°-30°C	R		
8.2.3.5	Biotransformation in Aquatic Systems			
8.2.3.5.2	Aerobic Water 20°-30°C	CR	If there is a potential for aquatic exposure.	
8.2.4	Laboratory Studies of Mobility			
8.2.4.1	Summary	R		

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Data Code	Title	Data required	Conditions	Volume No and Pages
8.2.4.2	Adsorption/Desorption	CR	One of 8.2.4.2; 8.2.4.3.1; 8.2.4.3.2; or 8.2.4.4 is required (R)	
8.2.4.3	Soil Column Leaching			
8.2.4.3.1	Unaged Soil	CR	See 8.2.4.2	
8.2.4.3.2	Aged Soil	CR	See 8.2.4.2	
8.2.4.4	Soil TLC Leaching	CR	See 8.2.4.2	
8.2.4.5	Volatilization	CR	If volatilization is indicated by vapour pressure or Henry's Law Constant	
8.4	Storage, Disposal and Decontamination (TGAI and EP)			
8.4.1	Summary	R		
8.5	Other Environmental Fate Studies (TGAI and EP)			
8.5.1	Summary	CR	Based on concerns arising from results of other studies	
8.6	Other Studies/Data/Reports	CR	If available	
9	Environmental Toxicology			
9.1	Summary	R		
9.2	Non-Target Terrestrial Invertebrates			
9.2.1	Summary	R		
9.2.3	Earthworms (TGAI)			
9.2.3.1	Acute Toxicity	CR	If there is a potential for exposure	
9.2.4	Bees/Pollinators (TGAI)			
9.2.4.1	Acute Contact	CR	If there is a potential for exposure	
9.2.4.2	Acute Oral	CR	See 9.2.4.1	
9.2.4.3	Hive Study (including brood)	CR	If there is a potential for exposure, especially for Insect Growth Regulators (IGRs)	
9.2.5	Predators	CR	If there is a potential for exposure	
9.2.6	Parasites	CR	See 9.2.5	
9.2.7	Other Terrestrial Invertebrates	CR	See 9.2.5	
9.2.8	Laboratory Studies with EP	CR	If there is a potential for exposure and components of the EUP are of concern	
9.2.9	Field Studies (EP)	CR	Based on concerns arising from results of other studies	
9.3	Non-Target Freshwater Invertebrates			
9.3.1	Summary	CR		

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Data Code	Title	Data required	Conditions	Volume No and Pages
9.3.2	<i>Daphnia</i> sp. Acute	CR	If there is a potential for freshwater exposure	
9.3.3	<i>Daphnia</i> sp. Chronic (Life-Cycle)	CR	Most sensitive (i.e., one of) daphnid (9.3.3); or fish (9.5.3.1), where there is concern based on acute effects, persistence, potential for exposure or frequency of application	
9.3.4	Laboratory Studies with Other Species	CR	If there is a potential for exposure	
9.5	Fish			
9.5.1	Summaries	CR		
9.5.2	Acute Studies			
9.5.2.1	Cold Water Fish (rainbow trout)	CR	If there is a potential for freshwater exposure	
9.5.2.2	Warm Water Fish (bluegill sunfish)	CR	See 9.5.2.1	
9.5.2.3	Other Freshwater Fish Species	CR	If there is a potential for exposure.	
9.5.3	Sublethal and Chronic Studies			
9.5.3.1	Fish, Early Life Cycle Tox. Test	CR	Most sensitive (i.e., one of) daphnid (9.3.3); or fish (9.5.3.1), where there is concern based on acute effects, persistence, potential for exposure or frequency of application	
9.5.3.2	Fish, Life Cycle Tox. Test	CR	Where there is concern based on acute effects, persistence, potential for exposure or frequency of application	
9.5.6	Bioaccumulation	CR	If there is a potential for exposure and log Kow is greater than or equal to 3	
9.6	Wild Birds			
9.6.1	Summary	CR		
9.6.2	Acute Studies			
9.6.2.1	Oral (LD50) Bobwhite Quail	CR	One of 9.6.2.1 or 9.6.2.2 is required (R), if there is a potential for avian exposure	
9.6.2.2	Oral (LD50) Mallard Duck	CR	See 9.6.2.1	

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Data Code	Title	Data required	Conditions	Volume No and Pages
9.6.2.3	Oral (LD50) Other Species	CR	If avian acute oral toxicity is of concern and there is a potential for exposure	
9.6.2.4	Dietary (LC50) Bobwhite Quail	CR	If there is a potential for avian exposure	
9.6.2.5	Dietary (LC50) Mallard Duck	CR	See 9.6.2.4	
9.6.2.6	Dietary (LC50) Other Species	CR	If avian acute dietary toxicity is of concern and there is a potential for exposure	
9.6.3	Chronic Studies			
9.6.3.1	Avian Reproduction Bobwhite Quail	CR	Triggered by acute effects, persistence, bioconcentration potential, mammalian reproductive effects, potential for exposure or frequency of application	
9.6.3.2	Avian Reproduction Mallard Duck	CR	See 9.6.3.1	
9.6.3.3	Avian Reproduction Other Species	CR	See 9.6.3.1	
9.6.6	Special Studies Related to the Intended Use-Pattern (TGAI or EP)	CR	See 9.6.5	
9.7	Wild Mammals			
9.7.1	Summary	CR	Based on concerns arising from results of other studies	
9.8	Non-Target Plants			
9.8.1	Summary	CR		
9.8.2	Fresh Water Algae	CR	If there is a potential for freshwater exposure	
9.8.4	Terrestrial Vascular Plants	CR	If there is a potential for exposure	
9.8.5	Aquatic Vascular Plants	CR	See 9.8.4	
9.9	Other Studies/Data/Reports	CR	If available	
12.5	Foreign Reviews			
12.5.2	Foreign Reviews of Chemistry Requirements for TGAIs or Integrated System Products	CR		
12.5.4	Foreign Reviews of Toxicology	CR		
12.5.8	Foreign Reviews of Environmental Chemistry and Fate	CR		
12.5.9	Foreign Reviews of Environmental Toxicology	CR		
12.7	Comprehensive Data Summaries	R		

August 15, 2005