

Summary of Requirements for Pesticide Registration

Applicant		Address	
Tel	Fax	Signature	
Product name		Pests	
Regulated type	<input type="checkbox"/> A. New active ingredient <input type="checkbox"/> B. New formulation (Check ~) <input type="checkbox"/> C. New pest <input type="checkbox"/> D. Registered product		
Registration record :			
Formulation type :		Use :	Pesticide permit No. :

I. Product Identity :

1. Common name (in Chinese) : _____
 (in English) _____

2. Formulation : _____

3. Chemical name : _____

5. Structure :

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4. Chemical formula : _____

6. Manufacturer of technical-grade : _____

7. Manufacturer of end-product : _____

Composition of Technical-grade

Name	(CAS#)	Content limit(%)	
		Upper	Lower
8.Active ingredient : _____		_____	_____
_____		_____	_____
_____		_____	_____
_____		_____	_____
9.Inert ingredients : _____		_____	_____
_____		_____	_____
_____		_____	_____
_____		_____	_____
_____		_____	_____
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Composition of End-product

Name	(CAS#)	Content (%)
10. Active ingredient : _____		_____
_____		_____
_____		_____
_____		_____
11. Inert ingredients : _____		_____
_____		_____
_____		_____
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.Physical & Chemical Characteristics

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A. Technical Grade

12. Color: _____ 13. Physical state: _____

14. Odor: _____ 15. Vapor pressure: _____

16. Density or specific gravity: _____

17. Flash point: _____ 18. Boiling point: _____

19. Melting point: _____ 20. Solubility in water: _____

21. Solubility in other solvents: _____

22. Stability : _____

23. pH value: _____ 24. Explodability: _____

25. Flammability: _____ 26. Miscibility: _____

27. Storage stability: _____ (year) 28 Viscosity: _____

29. Corrosive nature: _____

30. Octanol/water partition coefficient: _____

31. Dissociation constant: _____

B. End-product :

32. Color: _____ 33. Physical state: _____

34. Odor: _____ 35. pH value: _____

36. Density or specific gravity: _____

37. Viscosity: _____ 38. Flammability: _____

39. Explodability: _____ 40. Storage stability: _____ (year)

41. Miscibility: _____ 42. Corrosive characteristics: _____

.Analytical Methods

43. Product analytical method

Manufacturing-use product or technical-grade of active ingredient:

End-product: _____

44. Residue analytical method: _____

.Toxicology data T.G.=Technical-grade; E.P.=End-product

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A.Acute toxicity tests

45. Acute oral toxicity

rat (female) LD₅₀_____ mg/Kg(T.G.) LD₅₀_____ mg/Kg(E.P.)
 (male) LD₅₀_____ mg/Kg(T.G.) LD₅₀_____ mg/Kg(E.P.)
 mouse (female) LD₅₀_____ mg/Kg(T.G.) LD₅₀_____ mg/Kg(E.P.)
 (male) LD₅₀_____ mg/Kg(T.G.) LD₅₀_____ mg/Kg(E.P.)

46.Acute dermal toxicity

rabbit LD₅₀_____ mg/Kg(T.G.) LD₅₀_____ mg/Kg(E.P.)
 (or____) LD₅₀_____ mg/Kg(T.G.) LD₅₀_____ mg/Kg(E.P.)

47. Acute inhalation toxicity

rat (female) LC₅₀_____ mg/L (T.G.) LC₅₀_____ mg/L (E.P.)
 (or____) (male) LC₅₀_____ mg/L (T.G.) LC₅₀_____ mg/L (E.P.)

48.Eye irritation study

T.G. _____
 E.P. _____

49.Dermal irritation study

T.G. _____
 E.P. _____

50.Dermal sensitization study

T.G. _____
 E.P. _____

51.Acute delayed neurotoxicity yes____,effective dose:_____. no_____.

B.Subchronic toxicity tests

52.90-day feeding study

rat (female) no observed effect level(NOEL)_____ mg/kg/day
 (male) no observed effect level(NOEL)_____ mg/kg/day
 mouse (female) no observed effect level(NOEL)_____ mg/kg/day
 (or____) (male) no observed effect level(NOEL)_____ mg/kg/day

53. 21-day dermal study

rabbit/(or____) no observed effect level(NOEL)_____ mg/kg/day

54.90-day inhalation study

rat (female) no observed effect level(NOEL)_____ mg/kg/day
 (male) no observed effect level(NOEL)_____ mg/kg/day

55. 90-day neurotoxicity study_____

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C.Chronic toxicity studies

56.Chronic feeding toxicity study

rat (female) no observed effect level (NOEL)_____ mg/kg/day
(male) no observed effect level (NOEL)_____ mg/kg/day
dog (female) no observed effect level (NOEL)_____ mg/kg/day
(male) no observed effect level (NOEL)_____ mg/kg/day

57.Oncogenicity study

rat (female) lowest effect level (LEL)_____ mg/kg/day
(male) lowest effect level (LEL)_____ mg/kg/day
mouse (female) lowest effect level (LEL)_____ mg/kg/day
(male) lowest effect level (LEL)_____ mg/kg/day

58.Reproductive study-2 generation

rat/(or____)no observed effect level (NOEL)_____ mg/kg/day

59.Teratogenicity study

rat/(or____)no observed effect level(NOEL):dam_____ mg/kg/day,fetus_____ mg/kg/day
rabbit/(or____)no observed effect level(NOEL) :dam_____ mg/kg/day, fetus_____ mg/kg/day

D.Mutagenicity tests

60.Gene mutation:_____ positive__dose_____;negative__
61.Chromosomal aberration:_____ positive__dose_____; negative__
62.Other genotoxic effects:_____ positive__dose_____; negative__

E.Metabolism study

63.Metabolism in animal

Test animal(s):_____

Absorption rate:_____

Distribution pattern and distribution ratio:_____

Route of excretion:_____

Metabolic pathway:_____

Major metabolites:_____

64. Metabolism in plant

Test plant(s): _____

Absorption: _____

Distribution pattern: _____

Metabolic pathway: _____

Major metabolites: _____

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F. Environmental fate study

65. Hydrolysis study

Major metabolites: _____

Half-life: _____ (pH _____)

66. Photodegradation study in water

Major metabolites: _____

Half-life: _____

67. Photodegradation study on soil

Major metabolites: _____

Half-life: _____

68. Soil metabolism study

Soil characteristics: _____

Metabolic pathways: _____

Residues 0.01ppm: _____

Half-life: _____

69. Soil mobility study (Leaching and adsorption): _____

Rf value: _____ Kd value: _____

70. Soil dissipation study: _____

G. Avian and aquatic organism tests

71. Freshwater fish (rainbow trout) or (_____) :
 LC₅₀ , T.G. _____ ppm; E.P. _____ ppm (_____ 96hr or _____ 48hr)
72. Freshwater invertebrate(_____) :
 EC₅₀ , T.G. _____ ppm; E.P. _____ ppm (_____ 48hr or _____ 3hr)

73. Avian toxicity testing
 Test bird: _____ Avian oral LD₅₀ test _____
 Test bird: _____ Avian dietary LC₅₀ test _____

H. Nontarget organism toxicity

74. Honey bee acute contact toxicity(LD₅₀): _____
 Other beneficial insect acute toxicity _____

. Application methods and precautionary statements:

75. _____

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. Efficacy tests

76. Crops _____
 Pests _____

. Proposed tolerance data:

77. _____

. Commercialized document (for new active ingredient only):

78. U.S. _____ Japan _____ England _____ Germany _____ Australia _____ France _____
 Canada _____ Swiss _____ Netherland _____ (Check)