

## Application form of Requirements for Agro-pesticide Registration (organic chemical agents)

Applicant	(Stamp)		Address	
Person in charge	(Stamp)			
Tel. No.		Fax.		E-mail
Common name			Target pests	
Application category	<input type="checkbox"/> A. New active ingredients <input type="checkbox"/> B. New formulation or content (includes mixture) <input type="checkbox"/> C. New range of use <input type="checkbox"/> D. Have been registered for 8 years ( <input type="checkbox"/> New source technical material) <input type="checkbox"/> S. Other ( _____ ) Please fill or check the box to select the item			
Has applied for or registered for:				
Product	Intended use		License No.	

## 1. Product Informaton :

## 1.1 Identity

1.1.1 Formulation and concentration: \_\_\_\_\_

1.1.2 Brand name (product code): Chinese name: \_\_\_\_\_ English name: \_\_\_\_\_

## 1.2 Active ingredients: (If more than one, please use additional fields)

1.2.1 Common Name: (Chinese) \_\_\_\_\_  
(English) \_\_\_\_\_1.2.2 Chemical name: (IUPAC) \_\_\_\_\_  
(CA) \_\_\_\_\_

1.2.4 Molecular formula \_\_\_\_\_

1.2.5 Molecular weight \_\_\_\_\_

1.2.6 CAS RN \_\_\_\_\_

1.2.7 CIPAC # : \_\_\_\_\_

1.2.8 RAC code \_\_\_\_\_

1.2.9 Classification \_\_\_\_\_

1.2.10 Mode of action \_\_\_\_\_

1.2.3 Structure formula :

--

2. The composition and physical-chemical properties of the technical grade agro-pesticide (If more than one, please use additional fields)

2.1 Nominal content (or certified limited) :

※The value should be based on the five batch

analysis data

2.2 Manufacturer:

2.2.1 Name

2.2.2 Address

2.2.3 Country

2.2.4 Source of authority

2.3 Registration Company

2.4 License No.

2.5 Composition

2.5.1 Data information

Report title:

Report No.

Report date :

Test facility:

GLP registered  
org.:  Yes, Registered  
No., Country,  
Expiration date

No

2.5.2 The composition of technical material (TC):

	No.	Name or code	Chemical name	CAS No	Content (%)			Remarks
					Upper limit	Lower limit	Mean $\pm$ SD	
Active ingredients:	1							
	2							
Other ingredients : (impurity)	1							
	2							

## 2.5.3 The composition of technical concentrate (TK):

	No.	Name or code	Chemical name	CAS No	Content (%)	Remarks
Active ingredients:	1					
Other ingredients	1					

## 2.6 The physical-chemical properties of technical material(TC)

Test item	Result	Test material (purity / batch No.)	Condition and Method	Test facility (GLP registered status)and report No.
2.6.1 Physical state				
2.6.2 Color				
2.6.3 Odor				
2.6.4 pH values				
2.6.5 Melting point				
2.6.6 Boiling point				
2.6.7 Density,Specific gravity,Bulk density				
2.6.8 Vapor pressure				
2.6.9 Solubility				
2.6.9.1 Water				
2.6.9.2 Solvent				
2.6.10 Viscosity				
2.6.11 Stability				
2.6.11.1 Heat				
2.6.11.2 Metal				
2.6.11.3 Light				
2.6.12 Miscibility				

## 2.6.13 Flammability

## 2.6.13.1 Flash point

## 2.6.13.2 Flammable

## 2.6.13.3

## Autoignition temperature

## 2.6.14 Explodability

## 2.6.15

## Corrosive characteristics

## 2.6.16

## Storage stability

## 2.6.17

## Partition coefficient

## 2.6.18

## Dissociation constant

2.7 The physical-chemical  
properties of technical  
concentrate(TK)

Test item	Result	Test substance (purity / batch No.)	Test Methods And conditions	Test facility (GLP registered status)and report No.
2.7.1 Physical state				
2.7.2 Color				
2.7.3 Odor				
2.7.4 pH				
2.7.5 Density,Specific gravity,Bulk density				
2.7.6 Viscosity				
2.7.7 Flammability				
2.7.7.1 Flash point				
2.7.7.2 Flammable				

2.7.7.3 Autoignition temperature				
2.7.8 Explodability				
2.7.9 Corrosive characteristics				
2.7.10 Storage stability				

### 3. Formulated agro-pesticide composition and Physico-chemical Property

3.1 Active Ingredient content \_\_\_\_\_

3.2 Manufacturing \_\_\_\_\_

3.2.1 Name \_\_\_\_\_

3.2.2 Address \_\_\_\_\_

3.2.3 Country \_\_\_\_\_

3.2.4 Sources of authority \_\_\_\_\_

3.3 Registration Company \_\_\_\_\_

3.5 License Number \_\_\_\_\_

3.5 Composition :

	No.	Name or code	Chemical Name	CAS No	Content (%)	Agents Function
Active ingredients	1	_____	_____	_____	_____	_____
Other ingredients	1	_____	_____	_____	_____	_____
	2	_____	_____	_____	_____	_____

3.6 formulated agro-pesticide for Physico-chemical Property

Test Item	Results	Substance to be Tested (Purity/Batch No.)	Testing methods and condition	Test Unit (GLP login status) and report number
3.6.1 Physical state	_____	_____	_____	_____
3.6.2 Color	_____	_____	_____	_____
3.6.3 Odor	_____	_____	_____	_____
3.6.4 pH	_____	_____	_____	_____

3.6.5 Density, Specific gravity, Bulk density				
3.6.6 Viscosity				
3.6.7 Miscibility				
3.6.8 Flammability				
3.6.8.1 Flash point				
3.6.8.2 Flammable				
3.6.8.3 Autoignition temperature				
3.6.9 Explodability				
3.6.10 Corrosive characteristics				
3.6.11 Storage stability				

#### 4、Quality control

##### 4.1 composition analysis

	Batch NO.	Results	standard certified limits	Analysis method and condition
4.1.1				
Technical grade agro-pesticide				
4.1.1.1				
Active ingredients				
4.1.1.2				
hazardous impurities				
4.1.1.3				
Other ingredients				

4.1.2.1

Active ingredients

---

4.1.2.2

Other hazardous impurities

---

4.2 specifications of the  
formulated agro-pesticide  
formulation.

Specifications Item	Batch NO.	Results	standard certified limits	Analysis method and condition
Emulsion stability			<hr/>	
Suspensibility			<hr/>	
Spontaneity of dispersion			<hr/>	
Foaming			<hr/>	
wettability			<hr/>	
Degree of fineness			<hr/>	
Particle size			<hr/>	
Solubility			<hr/>	
Other( <u>fill in name</u> )			<hr/>	

## 5 · Toxicology study

## 5.1 Acute toxicity tests

## 5.1.1 Oral toxicity

Rat	female	LD <sub>50</sub> _____	mg/Kg (T.C.) ;	LD <sub>50</sub> _____	mg/Kg (Formulated agro-pesticide)
	male	LD <sub>50</sub> _____	mg/Kg (T.C.) ;	LD <sub>50</sub> _____	mg/Kg (Formulated agro-pesticide)
Mice	female	LD <sub>50</sub> _____	mg/Kg (T.C.) ;	LD <sub>50</sub> _____	mg/Kg (Formulated agro-pesticide)
	male	LD <sub>50</sub> _____	mg/Kg (T.C.) ;	LD <sub>50</sub> _____	mg/Kg (Formulated agro-pesticide)

## 5.1.2 Dermal toxicity

Rabbit	LD <sub>50</sub> _____	mg/Kg (T.C.) ;	LD <sub>50</sub> _____	mg/Kg (Formulated agro-pesticide)
Other animal ( )	LD <sub>50</sub> _____	mg/Kg (T.C.) ;	LD <sub>50</sub> _____	mg/Kg (Formulated agro-pesticide)

## 5.1.3 Inhalation toxicity

Rat	female	LC <sub>50</sub> _____	mg/L (T.C.) ;	LC <sub>50</sub> _____	mg/L (Formulated agro-pesticide)
	male	LC <sub>50</sub> _____	mg/L (T.C.) ;	LC <sub>50</sub> _____	mg/L (Formulated agro-pesticide)
Other animal (_____)	LC <sub>50</sub> _____	mg/L (T.C.) ;	LC <sub>50</sub> _____	mg/L (Formulated agro-pesticide)	

## 5.1.4 Eye irritation

T.C. :

Formulated  
agro-pesticide :

## 5.1.5 Skin irritation

T.C. :

Formulated  
agro-pesticide :

## 5.1.6 Skin Sensitization

T.C. :

Formulated  
agro-pesticide :



## 5.1.7 Acute neurotoxicity

Hen (delayed) Yes : \_\_\_\_\_ , dose : \_\_\_\_\_ mg/kg or No : \_\_\_\_\_  
 Rat Yes : \_\_\_\_\_ , dose : \_\_\_\_\_ mg/kg or No : \_\_\_\_\_

## 5.2 Subchronic tests (Note : NOAEL, no observed effect level)

## 5.2.1 90-day feeding toxicity

Rat female NOAEL \_\_\_\_\_ mg/kg/day  
 male NOAEL \_\_\_\_\_ mg/kg/day  
 Mice female NOAEL \_\_\_\_\_ mg/kg/day  
 male NOAEL \_\_\_\_\_ mg/kg/day  
 Other animal (dog) (female/ male) NOAEL \_\_\_\_\_ mg/kg/day

## 5.2.2 Inhalation (\_\_\_28 days or\_\_\_90 days)

Rat (female) NOAEL \_\_\_\_\_ mg/kg/day  
 (male) NOAEL \_\_\_\_\_ mg/kg/day

## 5.2.3 (21 days)

Rat (female) NOAEL \_\_\_\_\_ mg/kg/day  
 (male) NOAEL \_\_\_\_\_ mg/kg/day

## 5.2.4 Neurotoxicity (90 days)

Rat (female) NOAEL \_\_\_\_\_ mg/kg/day  
 (male) NOAEL \_\_\_\_\_ mg/kg/day

## 5.3 Chronic toxicity tests

## 5.3.1 Chronic feeding toxicity tests

Rat (female) NOAEL \_\_\_\_\_ mg/kg/day  
 (male) NOAEL \_\_\_\_\_ mg/kg/day  
 Mice (female) NOAEL \_\_\_\_\_ mg/kg/day  
 (male) NOAEL \_\_\_\_\_ mg/kg/day  
 Dog (female) NOAEL \_\_\_\_\_ mg/kg/day  
 (male) NOAEL \_\_\_\_\_ mg/kg/day

## 5.3.2 Oncogenicity tests (Note : lowest-observed-adverse-effect level, LOAEL)

Rat (female) oncogenicity \_\_\_\_\_ mg/kg/day ; oncogenicity LOAEL \_\_\_\_\_ mg/kg/day  
 NOAEL \_\_\_\_\_  
 (male) oncogenicity \_\_\_\_\_ mg/kg/day ; oncogenicity LOAEL \_\_\_\_\_ mg/kg/day  
 NOAEL \_\_\_\_\_

Mic	(female)	oncogenicity NOAEL	_____	mg/kg/day ; oncogenicity LOAEL	_____	mg/kg/day
	(male)	oncogenicity NOAEL	_____	mg/kg/day ; oncogenicity LOAEL	_____	mg/kg/day
Dog	(female)	oncogenicity NOAEL	_____	mg/kg/day ; oncogenicity LOAEL	_____	mg/kg/day
	(male)	oncogenicity NOAEL	_____	mg/kg/day ; oncogenicity LOAEL	_____	mg/kg/day

### 5.3.3 Reproductive toxicity

Rat/Other animal ( _____ )	parental (systemic) NOAEL	(female) _____	(male) _____	mg/kg/day
	descendantal NOAEL	(female) _____	(male) _____	mg/kg/day
	reproductive NOAEL	(female) _____	(male) _____	mg/kg/day

### 5.3.4 Prenatal developmental toxicity

Rat/Other animal ( _____ )	NOAEL : maternal _____ mg/kg/day ; fetus _____ mg/kg/day
Rabbit/Other animal ( _____ )	NOAEL : maternal _____ mg/kg/day ; fetus _____ mg/kg/day

## 5.4 Mutagenicity tests

### 5.4.1 Bacterial reverse gene mutation assay :

positive \_\_\_\_\_ dose \_\_\_\_\_ ; negative \_\_\_\_\_

### 5.4.2 *In vitro* mammalian cell assay :

positive \_\_\_\_\_ dose \_\_\_\_\_ ; negative \_\_\_\_\_

### 5.4.3 *In vivo* cytogenetics :

positive \_\_\_\_\_ dose \_\_\_\_\_ ; negative \_\_\_\_\_

## 5.5 Metabolism studies

### 5.5.1 Metabolism in animal :

testing animal : \_\_\_\_\_  
 absorption rate : \_\_\_\_\_  
 organ mainly distribution and rate : \_\_\_\_\_  
 excretion route : \_\_\_\_\_  
 metabolic route : \_\_\_\_\_

main metabolites : \_\_\_\_\_

### 5.5.2 Metabolism in plants :

The test crop : \_\_\_\_\_

Adsorption and distribution :	_____
The metabolic pathway :	_____
	_____
	_____
	_____
The major metabolites :	_____
	_____
	_____

## 5.6 Environmental fate studies

5.6.1 Hydrolysis	The major metabolite :	_____
		_____
	Half-life :	_____ (Temp. ____ pH ____)

5.6.2 Photodegradation in water	The major metabolite :	_____
		_____
	Half-life :	_____

5.6.3 Photodegradation in soils	The major metabolite :	_____
		_____
	Half-life :	_____

5.6.4 Metabolism in soils	Characteristics of soil :	_____
	The major metabolite :	_____
		_____
	>0.01ppm metabolite :	_____
		_____
	Half-life :	_____



5.8 Toxicity to non-target Insects (Honey bees) (If the registered pesticide was applied indoors or other tactics may be identified as low risk concern to activity of honeybees. The data are non-required.)

5.8.1 Requirement for registering in the field condition:

- 
- (1).Data of acute contact toxicity of Technical-Grade pesticide against honey bees ( $LD_{50}$ ,  $\mu\text{g}/\text{bee}$ ) : (Basal requirement for new registering pesticide.)
- 
- (2) Data of acute oral toxicity of Technical Grade pesticide against honey bees ( $LD_{50}$ ,  $\mu\text{g}/\text{bee}$ )(AOH) : (Basal requirement for new registering pesticide.)
- 
- (3) Data of acute contact toxicity of formulated pesticide against honeybees (  $LD_{50}$ ,  $\mu\text{g}/\text{bee}$ )(ACH) : (Required if the target crops were the nectar or pollen of plants.)
- 
- (Optional)
- 
- (4) Reports of semi-field or field trial study of bee colony: (Optional) If the risk quotient (RQ, the ratio of ACH of formulated pesticide or AOH of technical grade pesticide to gram active ingredient per hectare) was equal to or more than 50, the data of semi-field or field trial study of bee colony is required.
- 
- (5) Acute oral toxicity of formulated pesticide against larval bees ( $LD_{50}$ ,  $\mu\text{g}/\text{bee}$ ): (Optional) (If the active ingredient had other sub-lethal effects to honey bees such as side effect on the development of reproduction or growth regulator etc., data of acute oral toxicity of larval bees are required.)
- 
- Acute toxicity or side effect to other beneficial insects
- 

5.9 Earthworm toxicity

77  $LC_{50}$  : \_\_\_\_\_

5.10 Toxic to none-targeted plant

5.10.1 : Families of sensitive plants \_\_\_\_\_

6. Efficacy trials and crop safety (phytotoxicity) trials      Brief summary of conducted year, nations or locations, dosages of test product used and replicates per treatment in trials

6. Crop \_\_\_\_\_

Targets controlled \_\_\_\_\_

7. Field of Use and Notes      Dilution rate:  
 Product kg or Liter per hectare:  
 Application stage:  
 Application interval:  
 Application number:  
 Notes on application:

8. Residue data :

8. Crop/variety :                      ; Pest :                      ; dilution rate :  
 Rate:g ai/ha :                      ; applied at rates of g of (a.i.) in L of water :  
 Fraction at harvest : \_\_\_\_\_

The result of residual experiment: trial no:      completed trial    validation trial (one trial, one table)

(DAL A)*	Residues (ppm)								
	pesticide			metabolites			metabolites		
	control	Rate (low dose): g ai/ha	Rate (high dose): g ai/ha	control	Rate (low dose): g ai/ha	Rate (high dose): g ai/ha	control	Rate(low dose): g ai/ha	Rate (high dose): g ai/ha

\* : Days after the last application

9. MRLs information :

Please fill the announced international MRLs and residue definition on agricultural products for applying pesticide registration, such as MRL/residue definition of one pesticide on grape ) : Codex=1.0 ppm/active ingredient A + metabolite B ; EU=0.5 ppm/ active ingredient A + metabolite B + metabolite C ; US=2.0

ppm/ active ingredient A + metabolite B ; Japan=2.0 ppm/ active ingredient A+ metabolite B ;  
Australia=1.0 ppm/active ingredient A... °