

Bifenthrin 100g/L EC Safety Data Sheet according to Regulation (EC) No. 453/2010 Revision date: 28-01-2014

Version: 1.1

<b>SECTION 1: Identification of the</b>	substance/mixture and of the company/undertaking		
1.1. Product identifier			
Trade name	: Binder 10 EC		
Product code	: FI-016		
1.2. Relevant identified uses of the	substance or mixture and uses advised against		
1.2.1. Relevant identified uses			
Use of the substance/preparation	: Insecticide to be used by professionals for agriculture		
1.2.2. Uses advised against			
No additional information available			
<b>1.3.</b> Details of the supplier of the supplice	alety data sheet		
Unit 6, 26/F, Trend Centre, 29 Cheung Lee T 00852 2896 0662 - F 00852 25586577 msds@rotam.com	e Street, Chai Wan, Hong Kong		
1.4. Emergency telephone number			
Emergency number	: (86) 532 8388 9090		
SECTION 2: Hazards identificati	on		
2.1. Classification of the substance			
Classification according to Regulation (			
Flam. Liq. 3 H226			
Acute Tox. 3 (Oral) H301			
Acute Tox. 4 (Inhalation:dust,mist) H332			
Aquatic Chronic 2 H411			
Full text of H-phrases: see section 16			
Adverse physicochemical, human healt No additional information available	h and environmental effects		
2.2. Label elements			
Labelling according to Regulation (EC)	No. 1272/2008 [CLP]		
Hazard pictograms (CLP)			
	GHS02 GHS06 GHS09		
Signal word (CLP)	: Danger		
Hazard statements (CLP)	: H226 - Flammable liquid and vapour H301 - Toxic if swallowed		
	H332 - Harmful if inhaled		
	H411 - Toxic to aquatic life with long lasting effects		
Precautionary statements (CLP)	: P210 - Keep away from applicable ignition sources No smoking		
	P233 - Keep container tightly closed P240 - Ground/bond container and receiving equipment		
	P241 - Use explosion-proof equipment type equipment		
	P261 - Avoid breathing spray		
	P264 - Wash body thoroughly after handling P270 - Do no eat, drink or smoke when using this product		
	P271 - Use only outdoors or in a well-ventilated area		
	P273 - Avoid release to the environment		
	P280 - Wear protection equipment P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor		
	P304+P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for		
	breathing		
	P312 - Call a POISON CENTER/doctor/physician if you feel unwell P321 - Specific treatment (see reference to supplemental first aid instruction on this label)		
	P330 - Rinse mouth		
	P370+P378 - In case of fire: Use appropriate media for extinction		
	P391 - Collect spillage		
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P403+P235 - Store in a cool and well-ventilated place P405 - Store locked up P501 - Dispose of contents/container to local regulations

#### 2.3. **Other hazards**

#### No additional information available

### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

#### Not applicable

3.2. Mixtures			
Name	Product identifier	g/L	Classification according to Directive 67/548/EEC
Bifenthrin	(CAS No.) 82657-04-3	100	T; R25 Xn; R20 Xi; R43 N; R50/53
Name	Product identifier	g/L	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Bifenthrin	(CAS No.) 82657-04-3	100	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

#### Full text of R-, H- and EUH-phrases: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion <b>4.2.</b> Most important symptoms and effect No additional information available	I attention and special treatment needed
SECTION 5 : Firefighting measures5.1.Extinguishing media	
Suitable extinguishing media	: Dry powder, alcohol-resistant foam, carbon dioxide (CO2).
Unsuitable extinguishing media	: high volume water jet.
5.2. Special hazards arising from the su	bstance or mixture
Fire hazard	: Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide, nitrogen oxides (Nox).
Explosion hazard	: Product is not explosive.
Reactivity	: The product is stable at normal handling- and storage conditions.
5.3. Advice for firefighters	
Precautionary measures fire	: Wear self-contained breathing apparatus and protective suit (see item 8).
Firefighting instructions	: Prevent runoff from entering drains, sewers or waterways.
SECTION 6 : Accidental release mea	isures
6.1. Personal precautions, protective eq	uipment and emergency procedures
6.1.1. For non-emergency personnel Protective equipment	: Wear personal protective equipment.
6.1.2. For emergency responders Protective equipment	: Wear a self-contained breathing apparatus and appropriate personal protective equipment (PPE).

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6.2. Environmental precautions	
Do not allow material to contaminate ground wa	ater system.
6.3. Methods and material for containm	ent and cleaning up
For containment	: Sweep or shovel spills into appropriate container for disposal.
Methods for cleaning up	: Large spills : scoop solid spill into closing containers. Small quantities of liquid spill : take up in non-combustible absorbent material and shovel into container for disposal.
6.4. Reference to other sections	
No additional information available	
SECTION 7 : Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Wear proper protective equipment.
Precautions for safe handling	: Do NOT get in eyes, on skin or on clothing.
7.2. Conditions for safe storage, includ	
Storage conditions	: Store tightly closed in a dry, cool and well-ventilated place.
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7.3. Specific end use(s) No additional information available	
SECTION 8 : Exposure controls/per	
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Appropriate engineering controls:	
Ensure good ventilation of the work station.	
Hand protection:	
Protective gloves	
Eye protection:	
Safety glasses	
Skin and body protection:	
Wear suitable protective clothing	
Respiratory protection:	
Wear respiratory protection	
Environmental exposure controls:	
Avoid release to the environment.	
<b>SECTION 9: Physical and chemical</b>	properties
9.1. Information on basic physical and	
Physical state	: Liquid
Colour	: yellow.
Odour	: Mild character odour
Odour threshold	: No data available
рН	: 4.91
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 44.6 °C
Self ignition temperature	: No data available
Decomposition temperature	: No data available

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Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: Not explosive

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

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The product is stable at normal handling- and storage conditions.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

All heat sources.

#### 10.5. Incompatible materials

Strong acids, strong bases and oxidation agents.

#### 10.6. Hazardous decomposition products

No additional information available

### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Bifenthrin 100g/L EC (82657-04-3)	
LD50 oral rat	175 mg/kg
LD50 dermal rat	≥ 5000 mg/kg
LC50 inhalation rat (mg/l)	1.66 mg/l/4h
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

### **SECTION 12: Ecological information**

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12.1. Toxicity
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Bifenthrin	
ErC50 (algae)	≥ 8 mg/l
TLM fish 1	0.00015 mg/l (raibow trout)
TLM fish 2	0.00035 mg/l (bluegill sunfish)
TLM other aquatic organisms 1	0.00016 mg/l (Daphnia)
12.2.Persistence and degradabilityNo additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
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12.5. Results of PBT and vPvB assessm	ient
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideration	ons
13.1. Waste treatment methods	
No additional information available	
SECTION 14: Transport information	
In accordance with ADR / RID / ADNR / IMDG	
14.1. UN number	
UN-No.	: 3351
14.2. UN proper shipping name	
Proper Shipping Name	: PYRETHROID PESTICIDE, LIQUID, TOXIC, FLAMMABLE flashpoint not less than 23°C
Transport document description	<ul> <li>(Bifenthrin/Aromatic Hydrocarbon)</li> <li>UN 3351 PYRETHROID PESTICIDE, LIQUID, TOXIC, FLAMMABLE flashpoint not less than 23°C(Bifenthrin/Aromatic Hydrocarbon), 6.1 (3), III, (D/E)</li> </ul>
14.3. Transport hazard class(es)	
Class (UN)	: 6.1
Hazard labels (UN)	: 6.1, 3
14.4. Packing group	
Packing group (UN)	: 111
14.5. Environmental hazards	
Dangerous for the environment	
Other information	: No supplementary information available.
14.6. Special precautions for user	
14.6.1. Overland transport	
Hazard identification number (Kemler No.)	: 63
Classification code (UN)	: <u>TF2</u>
Orange plates	63 3351
Special provision (ADR)	61, 274
Transport category (ADR)	2
Tunnel restriction code	: D/E
Limited quantities (ADR)	5L
Excepted quantities (ADR)	: E1
EAC code APP code	: •3W : A(fl)
<b>14.6.2.</b> Transport by sea No additional information available	
14.6.3. Air transport	
No additional information available	
	nex II of MARPOL 73/78 and the IBC Code
Not applicable	

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#### **SECTION 15: Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Contains no REACH candidate substance

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No additional information available

### **SECTION 16: Other information**

#### Full text of R-, H- and EUH-phrases::

	Aguta taviaity (arol) Catagony 2
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Flam. Liq. 3	Flammable liquids Category 3
Skin Sens. 1	Skin sensitisation Category 1
H226	Flammable liquid and vapour
H301	Toxic if swallowed
H317	May cause an allergic skin reaction
H332	Harmful if inhaled
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
R20	Harmful by inhalation.
R25	Toxic if swallowed.
R43	May cause sensitisation by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Ν	Dangerous for the environment
Т	Toxic
Xi	Irritant
Xn	Harmful

#### SDS EU (REACH Annex II)

Disclaimer: The information provided by Rotam Agrochemical Co., Ltd contained herein is given in good faith and correct to the best of our knowledge. However, the information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.