

# MATERIAL SAFETY DATA SHEET

NAME OF MATERIAL/PREPARATION

NIMADEL

Date of Preparation	16/09/2012
Date of Issue	16/09/2012
MSDS No	FORM_MSDS_R&D_079_00
Renewal Date/No	

Page No: 1/9

PREPARED BASED ON REGULATION ON PREPARATION AND DISTRIBUTION OF SAFETY DATA SHEETS ABOUT HAZARDOUS MATERIALS AND PREPARATIONS (O.G. issue no 27092 dated 26/12/2008).

## 1. MATERIAL/PREPARATION AND COMPANY/OWNER IDENTIFICATION:

### Material/Preparation Identification:

**Product Name** : NIMADEL  
**Product Content** : BIFENAZATE 240 g/L  
**Formulation Form** : SC (SUSPENSION CONCENTRATE)  
**Cas No** : 149877-41-8  
**EC No** : -  
**IRAC Class** : UN

### 1.1 Usage of the Material/Preparation:

Insecticide

### 1.2 Company Identification:

#### Manufacturing and License Holding Company:

**Company Name** : AGRI SCIENCES TARIM VE ILAC UR. SAN. TIC. LTD. STI.  
**Address** : Bekir Saydam Caddesi Pancar No: 31 Torbalı / İZMİR  
**Telephone** : +90 0232 864 13 33  
**Fax** : +90 0232 864 16 79

### 1.3 Emergency Contact Telephone:

In case of an emergency please call +90 0232 864 13 33.

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Date of Preparation	16/09/2012
Date of Issue	16/09/2012
MSDS No	FORM_MSDS_R&D_079_00
Renewal Date/No	

Page No: 2/9

PREPARED BASED ON REGULATION ON PREPARATION AND DISTRIBUTION OF SAFETY DATA SHEETS ABOUT HAZARDOUS MATERIALS AND PREPARATIONS (O.G. issue no 27092 dated 26/12/2008).

## 2. COMPOSITION AND INFORMATION ON INGREDIENTS:

Material	g/L	CAS No	EINECS/ELINCS	Hazard	R <sup>1</sup>	Classification
Bifenazate	240	149877-41-8	-	-	-	-
monopropylene glycol	80	57-55-6	-	-	-	-
Others	Outside classification due to absence of hazardous material.					

- <sup>1</sup> R explanations are under section 16.

## 3. HAZARD IDENTIFICATION:

NOT SUBJECT TO THE REGULATION ON PREPARATION AND DISTRIBUTION OF SAFETY DATA SHEETS ABOUT HAZARDOUS MATERIALS AND PREPARATIONS (O.G. issue no 27092 dated 26/12/2008).

Hazardous Materials: Not requires application.

## 4. FIRST AID MEASURES:

**Poisoning indicators:** May irritate skin and eye.

**First Aid Measures:** Remove the patient from pesticide area take him/her to the fresh air. Take off the contaminated clothes immediately. If contaminated eye, wash with plenty of water for at least 15 minutes. Bring the patient to a quiet place. If swallowed, the doctor should decide for the disposal from the stomach.

**Antidote and Necessary Information:** There is no specific antidote. The treatment is applied according to the symptoms.

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NAME OF MATERIAL/PREPARATION

NIMADEL

Date of Preparation	16/09/2012
Date of Issue	16/09/2012
MSDS No	FORM_MSDS_R&D_079_00
Renewal Date/No	

Page No: 3/9

PREPARED BASED ON REGULATION ON PREPARATION AND DISTRIBUTION OF SAFETY DATA SHEETS ABOUT HAZARDOUS MATERIALS AND PREPARATIONS (O.G. issue no 27092 dated 26/12/2008).

### 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** Pressurized water, CO<sub>2</sub>, fire extinguishing powder, foam, sand. Fire exit should be intervened immediately without causing any hazard. Use a protective mask.

**In proper ventilated areas:** Full-face mask with combination filter. (No protection from carbon monoxide!)

**In closed areas:** Insulation device (not affected by environment, respiration from independent air supply). The rain water is prevented from spreading around.

### 6. ACCIDENTAL RELEASE MEASURES:

**General Information:** Please use the personal protection equipment defined under Section 8.

**Personal Precautions:** Do not touch spilled product or contaminated surfaces. Do not eat, drink or smoke while handling spilled product.

**Spill Clean-up Procedure:** Collect the product with a liquid retaining material (e.g. sand, sawdust, chemical binders). Place the product into tight plastic containers and keep safely until it is disposed. Contaminated materials and surfaces should be cleaned in compliance with environmental regulations.

**Additional Precautions:** Refer to Section 7 for safe handling instructions. Refer to Section 8 for personal protections equipment. Refer to Section 13 for disposal.

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NIMADEL

Date of Preparation	16/09/2012
Date of Issue	16/09/2012
MSDS No	FORM_MSDS_R&D_079_00
Renewal Date/No	

Page No: 4/9

PREPARED BASED ON REGULATION ON PREPARATION AND DISTRIBUTION OF SAFETY DATA SHEETS ABOUT HAZARDOUS MATERIALS AND PREPARATIONS (O.G. issue no 27092 dated 26/12/2008).

## 7. HANDLING AND STORAGE

**Handling** : Please use the personal protection equipment specified under Section 8. Do not eat or drink while handling the product. Avoid contact with the mouth, the skin or the eyes. Do not inhale the product. After handling the product thoroughly you're your hands. When handling closed containers no additional safety precautions other than the specified ones are needed. Only handle the product in rooms with a local suction device.

**Storage** : Please store the product in its original container, in a cool, dry and well-ventilated place. Keep away from food, drink and animal feed items. Protect from exposure to direct sunlight. Protect against freezing. Keep the product away from the reach of children.

Storage temperature: 0 to 40° C

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Precautions:** Ensure appropriate general or local ventilation to keep the product concentration under allowed limits.

**Personal Protection Equipment:**

**Eye Protection:** Use eye protection equipment compliant with EN 166.

**Skin Protection:** Use protective clothing and appropriate gloves. Use 2 layers of clothing, if possible. Use CE marked Nitrile Rubber (min. 0.40 mm thick). Contaminated gloves should be washed. Any gloves that cannot be cleaned inside and outside should be disposed.

**Respiratory Protection:** Use respiratory apparatuses compliant with EN 149:2001. Any respiratory protection apparatus should only be used for short term operations, as a part of risk minimization measures, e.g. in case of local ventilation. Comply with operation instructions and warnings of the manufacturer during use of respiratory protection apparatuses.

**Good Hygiene Conditions:** Do not eat, drink or smoke while handling the product. Make sure to wash your hands each time before eating, drinking, smoking or going to the toilet.

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NAME OF MATERIAL/PREPARATION

NIMADEL

Date of Preparation	16/09/2012
Date of Issue	16/09/2012
MSDS No	FORM_MSDS_R&D_079_00
Renewal Date/No	

Page No: 5/9

PREPARED BASED ON REGULATION ON PREPARATION AND DISTRIBUTION OF SAFETY DATA SHEETS ABOUT HAZARDOUS MATERIALS AND PREPARATIONS (O.G. issue no 27092 dated 26/12/2008).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	: Liquid, viscose
<b>Colour</b>	: White-beige
<b>Odour</b>	: Slight
<b>Specific Gravity</b>	: $1,05 \pm 0,05$ g/cm <sup>3</sup> (20 <sup>0</sup> C)
<b>pH</b>	: 5-9 10% (20 <sup>0</sup> C)

## 10. STABILITY AND REACTIVITY

**Conditions to avoid:** Extreme temperatures and exposure to direct sunlight

**Incompatibility with other materials:** None

**Hazardous reactions:** When stored and handled appropriately no hazardous reactions are observed. The product is resistant to specified storage conditions. The carbon compositions of nitrogen oxides should be noted.

## 11. TOXICOLOGICAL INFORMATION

### Bifenazate Technical Material:

Acute oral LD<sub>50</sub> rat >5000 mg/kg.

Skin and eye acute dermal LD<sub>50</sub> rat >5000 mg/kg. It's slightly irritating for skin and eye. (Rabbit) It's not classified as irritating for skin and eye according to the criteria of EU or EPA.

Inhalation LC<sub>50</sub> rat > 4.4 mg / l. NOEL (90 days) male rats, 2.7, female rats 3.2 mg / kg per day, 0.9 male dog, female dog 1.3 mg / kg per day; (1 year) 1,014 male dog, female dog 1051 mg / kg per day; (2 years) male rat 1.0, female rats were 1.2 mg / kg daily; (78 weeks) male mouse 1.5, female mouse and 1.9 mg / kg.

It's negative in other Ames test and it's neither mutagenic nor teratogenic in rats and rabbits. It's not carcinogenic in rats and mice.

## MATERIAL SAFETY DATA SHEET

NAME OF MATERIAL/PREPARATION

NIMADEL

Date of Preparation	16/09/2012
Date of Issue	16/09/2012
MSDS No	FORM_MSDS_R&D_079_00
Renewal Date/No	

Page No: 6/9

PREPARED BASED ON REGULATION ON PREPARATION AND DISTRIBUTION OF SAFETY DATA SHEETS ABOUT HAZARDOUS MATERIALS AND PREPARATIONS (O.G. issue no 27092 dated 26/12/2008).

### 12. ECOLOGICAL INFORMATION

#### Chlorothalonil Technical Material:

Birds Acute Oral LD<sub>50</sub> bobwhite quail 1142 mg/kg.

Diet LC<sub>50</sub> (5 days) bobwhite quail 2298, mallard ducks 726 mg/kg diet.

Fish LC<sub>50</sub> (96 hours) bluegill sunfish 0.58, rainbow trout 0.76 mg/l.

Alg E<sub>b</sub>C<sub>50</sub> (72 hours) *Skeletonema costatum* 0.30 mg/l (EU Rev. Rep.); E<sub>r</sub>C<sub>50</sub> (96 hours)

*Selenastrum capricornutum* 0.90 mg/l.

Ar1 LD<sub>50</sub> (48 hours, oral) >100 µg/bee; (contact) 8.5 µg/bee.

### 13. DISPOSAL INFORMATION

**Product** : Do not dispose it together with household wastes. Waste residue should not be spilled into wastewater canals. Any product wastes should be disposed of in compliance with Hazardous Wastes Control Regulations

**Contaminated Materials** : Empty containers should not be used for other products. Completely emptied and rinsed containers should be disposed in compliance with regulations. Non-clearable containers should be disposed of as hazardous materials.

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NAME OF MATERIAL/PREPARATION

NIMADEL

Date of Preparation	16/09/2012
Date of Issue	16/09/2012
MSDS No	FORM_MSDS_R&D_079_00
Renewal Date/No	

Page No: 7/9

PREPARED BASED ON REGULATION ON PREPARATION AND DISTRIBUTION OF SAFETY DATA SHEETS ABOUT HAZARDOUS MATERIALS AND PREPARATIONS (O.G. issue no 27092 dated 26/12/2008).

## 14. TRANSPORTATION INFORMATION

### ADR/RID/ADNR

UN-No. : 3082

Hazard Mark : 9

Packing Group : III

Product type : UN 3082 ENVIRONMENTALLY HAZARDOUS MATERIAL,  
LIQUID N.O.S. (INCLUDES BIFENAZATE)

### IMDG

UN-No. : 3082

Class : 9

Packing Group : III

EMS :

Marine Pollutant : Yes

Product Type : UN 3082 ENVIRONMENTALLY HAZARDOUS MATERIAL,  
LIQUID N.O.S. (INCLUDES BIFENAZATE)

### IATA

UN-No. : 3082

Class : 9

Packing Group : III

Product Type : UN 3082 ENVIRONMENTALLY HAZARDOUS MATERIAL,  
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<b>MATERIAL SAFETY DATA SHEET</b>	
<b>NAME OF MATERIAL/PREPARATION</b>	<b>NIMADEL</b>

Date of Preparation	16/09/2012
Date of Issue	16/09/2012
MSDS No	FORM_MSDS_R&D_079_00
Renewal Date/No	

Page No: 8/9

PREPARED BASED ON REGULATION ON PREPARATION AND DISTRIBUTION OF SAFETY DATA SHEETS ABOUT HAZARDOUS MATERIALS AND PREPARATIONS (O.G. issue no 27092 dated 26/12/2008).

### **15. REGULATORY INFORMATION**

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#### **Hazard Marks and Symbols:**

NOT SUBJECT TO THE REGULATION ON PREPARATION AND DISTRIBUTION OF SAFETY DATA SHEETS ABOUT HAZARDOUS MATERIALS AND PREPARATIONS (O.G. issue no 27092 dated 26/12/2008).

#### **Hazardous Materials Listed on the Label**

Includes Bifenazate.

#### **Risk Phrases:**

**Physicochemical** : -

**Health** : -

**Environment** : -

#### **Safety Phrases:**

S1/2 : Lock it up and keep out of the reach of children.

S13: Keep away food, drink and feedstuff.

S36/37/39: Use appropriate protective clothes, gloves and glass/mask.

#### **Important Labelling:**

Follow instructions to avoid personal and environmental risks



<b>MATERIAL SAFETY DATA SHEET</b>	
<b>NAME OF MATERIAL/PREPARATION</b>	<b>NIMADEL</b>
Date of Preparation	16/09/2012
Date of Issue	16/09/2012
MSDS No	FORM_MSDS_R&D_079_00
Renewal Date/No	

Page No: 9/9

PREPARED BASED ON REGULATION ON PREPARATION AND DISTRIBUTION OF SAFETY DATA SHEETS ABOUT HAZARDOUS MATERIALS AND PREPARATIONS (O.G. issue no 27092 dated 26/12/2008).

## 16. OTHER INFORMATION

### **All Risk Phrases under Section 2:**

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**Prepared By** : Secil CANAYAKIN

This material safety data sheet is provided as a supplement to instructions of manufacturer; however it does not replace instructions of manufacturer. The information provided in this sheet only conforms to the regulatory criteria known at the time of the preparation of Safety Data Sheet. Required data are gathered in accord with "Regulation on Preparation and Distribution of Safety Data Sheets about Hazardous Materials and preparations (O.G. issue no 27092 dated 26/12/2008)". Concerned organizations and persons are invited to comply with the abovementioned regulation.