

# MATERIAL SAFETY DATA SHEET

**SUBSTANCE / PREPARATION NAME**

**METTARO**

Date of preparation	18/01/2012
ReleaseDate	18/01/2012
MSDS No	FORM_MSDS_R&D_053_00
RenewalDate/No	

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This form is based on SAFETY DATA FORMS AND REGULATION ABOUT THE PREPARATION AND DISTRIBUTION OF HAZARDOUS SUBSTANCES (dated 26/12/2008 and 27092 numbered).

## 1. DEFINITION OF SUBSTANCE/PREPARATION AND COMPANY/ BUSINESS OWNER:

### 1.1 Substance/ Presentation Of The Preparation:

**Product Name** : **METTARO**  
**Content** : INDOXACARB30%  
**FormulationType** : WG (Water dispersible granules)  
**Cas No** : 173584-44-6  
**EC No** : -  
**IRAC** : 22A oxadiazine

### 1.2 Usage of Substance/Preparation:

Insecticide

### 1.3 Firm Presentation of the Company:

#### Manufacturer and Licensee Company:

**Company Name** : AGRİ SCIENCES TARIM VE İLAÇ ÜR. SAN. TİC. LTD. ŞTİ.  
**Address** : Bekir Saydam Caddesi Pancar No: 31 Torbalı / İZMİR  
**Telephone** : +90 0232 864 13 33  
**Fax** : +90 0232 864 16 79

### 1.4 Emergency Telephone:

Please call +90 0232 864 13 33 in an emergency.

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## 2. INFORMATION ABOUT THE CONTENT/COMPOSITION:

Substance	%	CAS No	Hazard	R <sup>1</sup>	Classification	Substance
Indoxacarb	30	173584-44-6	-	N	R50/53	N; R50/53
Others	It's out of classification in that does not contain dangerous substances.					

- Descriptions about<sup>1</sup> R are given in chapter 16

## 3. IDENTIFICATION OF HAZARDS:



**N: Dangerous for the environment**

R50/53: May cause long-term adverse effects in aquatic environments.

## 4. FIRST AID PRECAUTIONS:

**Symptoms of poisoning:** Dangerous if swallowed and inhaled. Can sensitization by skin contact.

**First Aid Measures:** If swallowed: Immediately contact your doctor. Poison Information Centre please ask for medical help. 1 or 2 glasses of water to drink and induce vomiting by touching finger, the back of her throat. An unconscious person vomit and never give anything by mouth.

**Eye Contact:** Wash eyes with plenty of water. Consult an eye specialist.

**Skin contact:** Wash off with soap and water.

**If inhaled:** Move patient to fresh and well-ventilated area, mouth to mouth artificial respiration if not breathing. Call a doctor.

**Antidote and required information:** There is no special antidote, treated symptomatically. Any intoxication at the time by calling the National Poison Information Centre telephone number can get more information for first aid and treatment.

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## 5. FIRE-FIGHTING MEASURES

**Required Personal Protective Equipment in Aid:** Do not breathe fumes of explosion and fire. If possible, use self contained breathing apparatus during fire.

**Hazards:** Formation of dangerous gases is taken into account in case of fire.

**Fire extinguishers:** Foam, carbon dioxide, extinguishing powder.

## 6. ACCIDENTAL RELEASE PRECAUTIONS:

**General Information:** Use personal protection devices, specified in section 8.

**Personal Alerts:** Avoid contact with spilled product or contaminated areas. Do not eat, drink or smoke when dealing with spilled product.

**The Cleaning Process:** The product is collected with liquid retaining material (such as peat, saw dust, chemical binder). Substance collected into hard plastic containers and stored in a secure way until to destroy. Contaminated substances, cleaned according to environment and ground instructions. The product flowing to drains or sewers is blocked. If waste is mixed with water, it is reported to the authorities.

**Additional Precautions:** Look at section 7 for safe use. Look at section 8 for personal protective equipment. Look at section 13 for disposal.

## 7. HANDLING AND STORAGE

**Handling** : Use personal protective equipments specified in section 8. Do not eat or drink anything during the usage. Avoid contact with skin and eyes. Do not breathe it. Wash your hands after usage. It does not need any other security precautions other than instructions on it. Use only the rooms with appropriate exhaust ventilation.

**Storage** : Store in original container in a cool, dry and well-ventilated place. Keep away from foods, drinks and animal feed stuffs. Protect from direct sunlight. Protect against freezing, do not put to reach area of children.

Storage Temperature -5- 40°C

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## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

**Engineering Precautions:** Keep the substance concentration below the allowable limits by providing the appropriate general or regional ventilation.

**Personal Protective Equipment:**

**Eye** : Use safety glasses according to EN 166.

**Skin** : Use protective clothing and suitable gloves. If possible, use 2 layers of clothing. Use CE marked Nitrile rubber gloves (min 0,40 mm thick). Wash contaminated gloves. Dispose of the not cleanable gloves.

**Respiration** : Use breathing apparatus according to EN 149:2001. Breathing apparatus only used in short-term work to reduce the risk, for example, in local ventilations. Warning instructions prepared by manufacturers about respiratory protection apparatus must be followed.

**Hygiene Precautions:** Do not eat, drink or smoke during usage. Wash your hands every time before going to the toilet, eating, drinking and smoking.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** : Granule  
**Color** : Brown  
**Odor** : Odorless  
**pH** : 5-9 (% 10 solution)

## 10. STABILITY AND REACTION

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

**Substances to avoid** : Keep away from strong acids and bases.

**Hazardous reactions** : No hazardous reactions when stored and handled appropriately. Combustion or thermal decomposition may occur as a result of toxic and irritant vapors. Storage conditions described in durable. Hazardous polymerization products do not occur.

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## 11. TOXICOLOGICAL INFORMATION

### Indoxacarb Technical Substance:

Acute oral LD50 in male rats, 1732, female rat 268 mg / kg.  
Eye and skin Acute percutaneous LD50 rabbit > 5000 mg / kg. Rabbits are not irritating to skin and eyes. Inhalation: LC50 rat > 2 mg / l. Others: Amest test is negative.

## 12. ECOLOGICAL INFORMATION

### Indoxacarb Technical Substance:

Bird Acute Oral LD50 quail (Bob white quail) 98 mg / kg. Diet LC50 (5 days) ducks (mallard ducks) > 5620, quail (Bob white quail) 808 ppm. Fish LC50 (96 hours), bluegill sun fish 0.9, rainbow trout 0.65 mg / l. Algae EC50 (96 hours) > 12:11 mg / l (EU Rev. Rep.).  
Bees LD50 (oral) 0.26 mg / bee; (contact) 0094 mg / bee.

## 13. DISPOSAL INFORMATION

**Product** : Wastes should be disposed of with household waste. The remaining amount of waste must not be poured into a sewage canal. Hazardous waste should be disposed of according to control regulations.

**Contaminated Packing** : Empty containers should be used for other products. Completely emptied and shaken containers must be properly disposed. Uncontaminated packaging should be disposed of as hazardous waste.

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## 14. TRANSPORT INFORMATION

### ADR/RID/ADNR

**UN-No.** : 3077

**Danger Signal** : 9

**Packaging Group** : III

**Property of the product** : UN 3077 ENVIRONMENTAL HAZARDOUS  
SUBSTANCE, SOLID N.O.S. (WASTE FREE) (CONTAINING INDOXACARB)

### IMDG

**UN-No.** : 3077

**Class** : 9

**Packaging Group** : III

**Sea Pollutant** : Yes

**Property of the product** : UN 3077 ENVIRONMENTAL HAZARDOUS  
SUBSTANCE, SOLID N.O.S. (WASTE FREE) (CONTAINING INDOXACARB)

### ADR/RID/ADNR

**UN-No.** : 3077

**Danger Signal** : 9

**Packaging Group** : III

**Property of the product** : UN 3077 ENVIRONMENTAL HAZARDOUS  
SUBSTANCE, SOLID N.O.S. (WASTE FREE) (CONTAINING INDOXACARB)



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## 15. REGULATORY INFORMATION

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### Hazard Signal and Symbol:



### N: Dangerous for the environment

#### Hazardous Substances Found On The Label:

Containing Indoxacarb.

#### Risk Phrases

#### Physicochemical

#### Health:

#### Environment:

R50/53: May cause long-term adverse effects in aquatic environments.

#### Safety Phrases:

S1/2 : Keep out of reach of children

S13 : Keep away from. Food, drink and animal feed stuffs

S 29 : Do not empty into drains.

S 36/37/39 : Use suitable protective clothing, gloves and protective goggles/mask.

S 56 : Remove this material and its jar in special waste collection point.

S 61 : Avoid release from the environment. Refer to special instructions / Safety

Data Sheet.

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### **Important Labeling :**

To avoid from risks to man and environment, comply with the instruction of use.

### **16. OTHER INFORMATIONS**

**N** : Dangerous for the environment

#### **Risk phrases mentioned in Section 2:**

R50/53: May cause long-term adverse effects in aquatic environments.

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**PrparedBy** : Seçil CANAYAKIN

This security information form is additional to manufacturer firm's instructions, however does not replace within structions. This form contains regulation criteria for preparation of security form preparation. This form is based on safety data forms and regulation about the preparation and distribution of hazardous substances (dated 26/12/2008 and 27092 numbered). Please, the relevant institutions and individuals act according to this regulation.