

PRODUCT SAFETY DATA SHEET

SUBSTANCE / PREPARATION NAME

MODESTA

Date of preparation	27/06/2011
Release Date	30/06/2011
MSDS No	FORM_MSDS_R&D_018_00
Renewal Date/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. SUBSTANCE/PREPARATION AND COMPANY/ DEFINITION OF BUSINESS

OWNER:

1.1 Substance/ Presentation Of ThePreparation:

Product Name : **MODESTA**
Product Description : Imidacloprid 350 g/L
FormulationType :SC (SuspensionConcantrate)
Cas No : 138261-41-3
EC No : 428-040-8
IRAC Smif :4A neonicotinoid

1.2 Usage of Substance/Preparation:

Insecticide

1.3 Presentation of theCompany:

ManufacturerandLicenseeCompany:

Company Name : AGRİ SCIENCES TARIM VE İLAÇÜR. SAN. TİC. LTD. ŞTİ.
Adress : Bekir Saydam Caddesi Pancar No: 31 Torbalı / İZMİR
Telephone : +90 0232 864 13 33
Fax :+900232 864 16 79

1.4 Emergency Telephone:

Pleasecall+90 023286413 33 in an emergency.

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2. INFORMATION ABOUT THE CONTENT/COMPOSITION :

Substance	g/L	CAS No	EINECS/ELINCS	Hazard	R ¹	Classification
Imidacloprid	350	138261-41-3	428-040-8	Xn, N	R22, R50, R53	Xn; R22, N; R50, R53
MonoethyleneGlycol	80	107-21-1	203-473-3	Xn	R22	-
Others	These are excluded because of not containing hazardous substance.					

- Descriptions about ¹R are given in chapter 16.

3. IDENTIFICATION OF HAZARDS:



Xn: Harmful N: Dangerous for the environment

R22 : Harmful if swallowed

R50 : Very toxic to aquatic organisms.

R53 : May cause long-term adverse effects in aquatic environments.

4. First Aid Precautions:

Toxication Symptoms: Insensitivity, spasm, difficulty in transpiration, trembling, cramp.

First Aid Precautions: Take the patient away from the sprayed area, if he is not conscious lay him down on one side. Take off his contaminated garments immediately. In case of skin contact, wash well with water and soap. In case of eye contact, wash well with water. If swallowed, do not make the patient vomit, rinse the mouth with water. Call a doctor immediately, keep the product label and package on you.

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Antidote And Vital Information : No any specific antidotes. Symptomatic treatment is followed.

5. FIRE CONFLICT PRECAUTIONS

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.

Other Informations: Remove the product from fire areas, cool containers with water. If possible, use sand or earth after fire fighting water.

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, sawdust, chemical binder). Substance collected into hard plastic containers and stored in a secure way until destroyed.

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 equipment 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.

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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.
The storage temperature 0-30°C

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 hand every time before going to the toilet, eating, drinking and smoking.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid, viskose
Color : Beige-brown
Smell : Odourless
Density : $1,15 \pm 0,05 \text{ g/cm}^3$ (20°C)
pH : 7 – 8,5 1% (20°C)

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10. STABILITY AND REACTION

Conditions to avoid : Extreme temperatures and direct sunlight.

Substances to avoid : Avoid from strong acids and bases.

Hazardous reactions : There are no hazardous reactions when stored and handled suitably. Resistant to storage conditions. Hazardous polymerization products do not occur.

11. TOXICOLOGICAL INFORMATION

Imidacloprid Technical Substance:

Oral Acute oral LD₅₀ for male and female rats c. 450 mg/kg. **Skin and eye** Acute percutaneous LD₅₀ (24 h) for rats >5000 mg/kg. Non-irritating to eyes and skin (rabbits). Not a skin sensitiser. **Inhalation** LC₅₀ (4 h) for rats >5323 mg/m³ dust, 69 mg/m³ air (aerosol). **NOEL** (2 y) for male rats 5.7, female rats 24.9, male mice 65.6, female mice 103.6 mg/kg b.w. daily; (52 w) for male and female dogs 15 mg/kg b.w. daily. **ADI/RfD** (JMPR) 0.06 mg/kg b.w. [2001]; (EC) 0.06 mg/kg b.w. [2008]; (EPA) aRfD 0.14, cRfD 0.057 mg/kg b.w. [2005] **Other** Not mutagenic or teratogenic. **Toxicity Class** WHO (a.i.) II; EPA (formulation) II

12. ECOLOGICAL INFORMATION

Imidacloprid Technical Substance:

Birds Acute oral LD₅₀ for Japanese quail 31, bobwhite quail 152 mg/kg. Dietary LC₅₀ (5 d) for bobwhite quail 2225, mallard ducks >5000 mg/kg. **Fish** LC₅₀ (96 h) for golden orfe 237, rainbow trout 211 mg/l. **Daphnia** LC₅₀ (48 h) 85 mg/l. **Algae** E_rC₅₀ (72 h) for *Pseudokirchneriella subcapitata* >100 mg/l. **Bees** Harmful to honeybees by direct contact, but no problems expected when not sprayed into flowering crop or when used as a seed treatment. **Worms** LC₅₀ for *Eisenia foetida* 10.7 mg/kg dry soil.

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13. DISPOSAL INFORMATION

Product : Wastes should be disposed of with household waste. The remaining amount of waste must not be poured to sewerage canal. Hazardous waste should be disposed of according to control regulation.

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.

14. TRANSPORT INFORMATION

ADR/RID/ADNR

/RID/ADNR

UN-No. : 3082

Hazard Class : 9

Packing Group : III

Product Type : UN 3082 ENVIRONMENTAL HAZARDOUS SUBSTANCE, LIQUID N.O.S.(CONTAINING IMIDACLOPRID.)

IMDG

UN-No. : 3082

Hazard Class : 9

Packing Group : III

EMS :

Marine Pollutant : Yes

Product Type : UN 3082 ENVIRONMENTAL HAZARDOUS SUBSTANCE, LIQUID N.O.S.(CONTAINING IMIDACLOPRID.)

IATA

UN-No. : 3082

Hazard Class : 9

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Packing Group : III

Product Type : UN 3082 ENVIRONMENTAL HAZARDOUS SUBSTANCE, LIQUID N.O.S.(CONTAINING IMIDACLOPRID.)

15. REGULATORY INFORMATION

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).

HazardSignalandSymbol:



Xn: Harmful

N: Dangerous for the environment

Hazardous Substances Found On The Label

Containing Imidacloprid

Risk Phrases

Physicochemical:-

Health:

R22 : Harmful if swallowed

Environment

R50 : Very toxic to aquatic organisms.

R53 : May cause long-term adverse effects in aquatic environments.

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Safety Phrases:

- S1/2 : Keep away from children and store under lock.
S13 : Keep away from foods, drinks and animal feed stuffs
S22 : Do not breathe dust.
S29 : Do not empty into drains.
S36/37/39 : Wear suitable protective clothing, gloves and eye/face protection
S46 : If swallowed, seek medical advice immediately and show this container or label
S56 : Dispose the material at hazardous or special waste collection point.
S61 : Avoid release to the environment. Refer to special instructions/safety data sheet

Important Labeling :

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

16. OTHER INFORMATIONS

N: Dangerous for the environment

Xn: Harmful

Risk phrases mentioned in Section 2:

- R22 : Harmful if swallowed
R50 : Very toxic to aquatic organisms.
R53 : May cause long-term adverse effects in aquatic environments.

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Preparedby : Seçil CANAYAKIN

This security information form is additional to manufacturer firm's instructions, however does not replace within instructions. This form contains regulation criterias 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.