

MATERIAL SAFETY DATA SHEET

SUBSTANCE / PREPARATION NAME

PACGROW

Date of preparation	10/08/2011
Release Date	19/08/2011
MSDS No	FORM_MSDS_R&D_035_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. DEFINITION OF SUBSTANCE/PREPARATION AND COMPANY/ BUSINESS OWNER:

1.1 Substance/ Presentation Of The Preparation:

Product Name : PACGROW
Content : SPINOSAD 480 g/L
Formulation Type : SC (Suspension Concentrate)
Cas No : 168316-95-8
EC No : 434-300-1
IRAC : 5 Spinosyn

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 ¹	Classification	Substance
Spinosad	480	168316-95-8	434-300-1	N	R50, R53	N; R50, R53
Propylene glycol	40	57-55-6	200-338-0	-	-	-
Others	It's out of classification in that does not contain dangerous substances.					

- Descriptions about ¹R are given in chapter 16

3. IDENTIFICATION OF HAZARDS



N: Dangerous for the environment

R50 : Very toxic to aquatic organisms.

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

4. FIRST AID PRECAUTIONS:

Symptoms of poisoning: Pacgrow is a very safe drug and a very low toxicity to humans and animals.

First Aid Measures: Through the skin may be harmful. If contamination of the skin, the patient immediately remove the drug field spraying. Remove contaminated clothing medication. Wash skin with soap and water plenty of places to transmitted drug. Eyes, wash your eyes with clean water at least 15 minutes in case of contamination. Call a doctor, or take it to the doctor the patient with the drug packaging or label. Drug swallowed the medicine the doctor must decide whether to evacuate the stomach.

Antidote and required information: There is no special antidote, treatment symptomatically.

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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.

Other Information: 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 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.

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

Storage Temperature -5- 40° 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 works 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 : Liquid

Color : White-Beige

Oder : Oderless

Density : 1,09± 0,05 g/cm³ (20⁰C)

pH : 5-8 (% 10 aqueous solution)

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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 appropriate. Combustion or thermal decomposition may occur as a result of toxic and irritant vapors. Storage conditions described in durable. Hazardous polymerization products does not occur.

11. TOXICOLOGICAL INFORMATION

Spinosad Technical Substance:

Acute Oral LD50 male rats 3783, female rats > 5000 mg / kg.

Skin and eye Acute percutaneous LD50 rabbit > 2000 mg / kg. Is not irritating to the skin, eyes mild irritation. (rabbit)

Inhalation LC50 (4 h) rat > 5:18 mg / l.

NOEL (13 weeks) dog 5, 6-8 mouse, rat 9-10 mg / kg bw daily.

ADI / RfD (EC) No 0024 mg / kg b.w. [2006]; (JMPR) 0.02 mg / kg b.w. [2001, 2004];

(EPA) cRfD 0.0268 mg / kg b.w. [1997]; (FSC, Australia) 0024 mg / kg b.w.

Other neurotoxic, mutagenic and have no effect on reproduction.

WHO toxicity class (ai) U, EPA (formulation) IV (technique.), IV ('Tracer')+

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12. ECOLOGICAL INFORMATION

Spinosad Technical Substance:

Birds Acute oral LD50 quail (Bobwhite quail) and ducks (mallard ducks) > 2000 mg / kg. Diet Acute LC50 quail (Bobwhite quail) and ducks (mallard ducks) > 5156 ppm. Fish LC50 (96 hours) rainbow trout 30, bluegill sunfish 5.9, 5 common carp, Japanese carp 3.5 sheep head minnows 9.7 mg / l. Water flea (Daphnia) EC50 (48 h) 14 ppm. Algae Selenastrum capricornutum EC50 > 105.5, 0.2 Skeletonema costatum, Navicula pelliculosa 0.09, Anabaena flos-aquae 9.8 ppm. Squeezed directly on bees is highly toxic. Local LD50 (48 hours) 0.0029 mg / bee.

13. DISPOSAL INFORMATION

Product : Wastes should dispose of with household waste. The remaining amount of waste must not poured to sewage 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 properly disposed. Uncontaminated packaging should be disposed of as hazardous waste.

14. TRANSPORT INFORMATION

ADR/RID/ADNR

UN-No. : 3082

Danger Signal : 9

Packaging Group : III

Property of the product : UN 3082 Environmental hazardous substance, liquid N.O.S. (Containing SPINOSAD)

IMDG

UN-No. : 3082

UN-No. : 3077



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Class : 9

Packaging Group : III

See Pollutant : Yes

Property of the product : UN 3082 Environmental hazardous substance, liquid N.O.S. (Containing SPINOSAD)

IATA

UN-No. : 3082

Class : 9

Packaging Group : III

Property of the product : UN 3082 Environmental hazardous substance, liquid N.O.S. (Containing SPINOSAD)

15. REGULATORY INFORMATION

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Hazard Signal and Symbol:



N: Dangerous for the environment

Hazardous Substances Found On The Label:

Containing Spinosad

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Risk Phrases

Physicochemical

Health:

Environment:

R50 : Very toxic to aquatic organisms.

R53 : May cause long-term adverse effects in aquatic

Safety Phrases:

S1/2 : Keep out of reach of children

S13 : Keep away from. Food, drink and animal feedstuffs

S 29 : Do not empty into drains.

S35 : This material and its container must be disposed of in a safe way.

S36/37/39 : Use suitable protective clothing, gloves and protective goggles/mask.

S45 : In case of accident or if you feel unwell seek medical advice immediately

(show the label where possible).

S46 : If swallowed, go to doctor immediately and show this container or label.

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

S 57 : Use appropriate containment to avoid environmental contamination.

S 61 : Avoid release from 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.

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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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Prpared By : Seçil CANAYAKIN

This security information form is additional to manufacturer firm's instructions, however does not replace with instructions. 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.