

# MATERIAL SAFETY DATA SHEET

NAME OF MATERIAL/PREPARATION

AGRILEX

Date of Preparation	10/07/2015
Date of Issue	10/07/2015
MSDS No	FORM_MSDS_R&D_185_00
Renewal Date/No	

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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:

### 1.1 Material/Preparation Identification:

**Product Name** : AGRILEX  
**Product Content** : HEXYTHIAZOX 50 g/L  
**Formulation Form** : EC (Emulsion Concentrate)  
**Cas No** : 78587-05-0  
**IRAC** : 10A mite growth inhibitor

### 1.2 Usage of the Material/Preparation:

Insecticide

### 1.3 Company Identification:

#### Manufacturing and License Holding Company:

**Company Name:** AGRİ SCIENCES TARIM VE İLAÇÜR. SAN.TİC.LTD. ŞTİ.

**Address** : BekirSaydamCaddesiPancar No: 31 Torbalı / İZMİR

**Telephone** : +90 0232 864 13 33

**Fax** : +900232 864 16 79

### 1.4 Emergency Contact Telephone:

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

## 2. COMPOSITION AND INFORMATION ON INGREDIENTS:

Material	g/L	CAS No	EINECS/ELINCS	Hazard	R <sup>1</sup>	Classification
Hexythiazox	50	78587-05-0	-	N	R50/53	N; R50/53
Solvesso 100	>350 g/L	63231-51-6	-	Xn, Xi	R10, R20/21, R38	R10, Xn R20/21,R38
Others	Outside classification due to absence of hazardous material.					

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

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### 3. HAZARD IDENTIFICATION:



**Xn: HARMFUL**



**N: DANGEROUS FOR THE ENVIRONMENT**

R10: Flammable

R20/21: Harmful by inhalation and in contact with skin

R38: Irritating to skin

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

### 4. FIRST AID MEASURES:

Poisoning indicators: Causes mydriasis, impaired concentration in muscles and muscle contraction.

First Aid Measures: In case of contact with eyes: Rinse with plenty of water for at least 15 minutes and seek medical measures.

In case contact with skin: Take out the pesticide contaminated clothes and wash the contacted parts with soap and water.

If inhaled: Take patient to fresh air. Apply artificial respiration if necessary.

If swallowed: Puke the patient by making him/her drink 1-2 glasses of water in case too much exposure with too much pesticide. Do not puke if the patient is unconscious.

Antidote and Required Information: There is no specific antidote. The treatment is applied according to the symptoms. In case of toxicity, puke the patient within 30 minutes.

Medical coal should be given. GABA accelerator drugs (Barbiturate, Benzodiazepine, Valproic acid) should be given.

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### 5. FIRE FIGHTING MEASURES

**Personal protection equipment for fire fighting:** Do not inhale the gases occurred during the explosion and fire. If possible use air-independent respiratory masks.

**Hazards:** Consider the hazardous gases come out during the fire.

**Extinguishers:** Foam, Carbon dioxide, fire extinguishing powder.

**Other Information:** Move the product away from the fire place, cool the containers using water. If possible, use sand and soil after the fire extinguishing liquid.

### 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. The product is prevented from reaching the drains or rivers. If the waste is mixed with water, the authorities will be notified.

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

### 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.

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**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.

## 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	: Liquid
<b>Colour</b>	: Yellow
<b>Odour</b>	: Poor
<b>Specific Gravity</b>	: $0,90 \pm 0,05 \text{ g/cm}^3$ (20°C)
<b>pH</b>	: 5-9 (% 10 solution)
<b>Flash Point</b>	: 44°C

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## 10. STABILITY AND REACTIVITY

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

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

**Hazardous reactions:** When stored and handled appropriately no hazardous reactions are observed. Toxic and irritant vapours may occur following combustion or thermal decomposition. Durable for described storage conditions. Hazardous polymerization products do not occur.

## 11. TOXICOLOGICAL INFORMATION

### Hexythiazox Technical Material:

**Oral** Acute oral LD<sub>50</sub> for rats and mice >5000 mg/kg.

**Skin and eye** Acute percutaneous LD<sub>50</sub> for rats >5000 mg/kg. Mild eye irritant; non-irritating to skin (rabbits). Non-sensitising to skin (guinea pigs).

**Inhalation** LC<sub>50</sub> (4 h) for rats >2 mg/l air.

**NOEL** (2 y) for rats 23.1 mg/kg b.w.; (1 y) for dogs 2.87 mg/kg b.w.; (90 d) for rats 70 mg/kg diet.

**ADI/RfD** (JMPR) 0.03 mg/kg b.w. [1991]; (EPA) cRfD 0.025 mg/kg b.w. [1988].

**Other** Non-teratogenic. Not mutagenic in the Ames assay.

**Toxicity Class** WHO (a.i.) U; EPA (formulation) IV

## 12. ECOLOGICAL INFORMATION

### Hexythiazox Technical Material:

**Birds** Acute oral LD<sub>50</sub> for mallard ducks >2510, Japanese quail >5000 mg/kg. Dietary LC<sub>50</sub> (8 d) for mallard ducks and bobwhite quail >5620 mg/kg diet. **Fish** LC<sub>50</sub> (96 h) for rainbow trout >300, bluegill sunfish 11.6 mg/l; (48 h) for carp 3.7 mg/l. **Daphnia** LC<sub>50</sub> (48 h) 1.2 mg/l. **Algae** E<sub>r</sub>C<sub>50</sub> (72 h) for *Pseudokirchneriella subcapitata* >72 mg/l.

**Bees** Not toxic to bees. LD<sub>50</sub> by topical application >200 µg/bee.

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## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal** : Do not dispose product waste 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.

## 14. TRANSPORTATION INFORMATION

**ADR/RID/ADNR  
/RID/ADNR**



**UN-No.** : 3082  
**Class** : 9  
**Packing Group** : III  
**Product Type** : UN 3082 ÇEVRESEL TEHLİKELİ MADDE, SIVI N.O.S. (HEXYTHIAZOX and SOLVESSO 100 İÇERİR.)

**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 HEXYTHIAZOX and SOLVESSO 100.)

**IATA**

**UN-No.** : 3082  
**Class** : 9  
**Packing Group** : III  
**Product Type** : (INCLUDES HEXYTHIAZOX and SOLVESSO 100.)

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## 15. REGULATORY INFORMATION

This data sheet is 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).

### Hazard Marks and Symbols:



Xn: HARMFUL



N: DANGEROUS FOR THE ENVIRONMENT

### Hazardous Materials Listed on the Label

Includes Hexythiazox and solvesso 100.

### Risk Phrases:

#### Physicochemical: -

R10 : Flammable.

#### Health:

R20/21: Harmful by inhalation and in contact with skin

R38: Irritating to skin

#### Environment:

R 50/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### Safety Phrases:

S1/2: Keep locked and away from children.

S13: Keep away from food, drink and animal feed.

S24: Avoid contact with skin

S 29: Do not spill in sewage system.

S 36/37/39: Wear appropriate protective clothes, gloves and glass/mask.

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S43: Use foam, carbon dioxide, extinguishing powder in case of fire

S:46: If swallowed, call a doctor. Show the container or label

S 56: Dispose of this material and its container dangerous or special waste collection areas

S64: In case of swallow, wash the mouth with water (If the patient is conscious)

## 16. OTHER INFORMATION

**N** :Dangerous for the environment

**Xi** : Irritating.

**Xn** : Harmful

### All Risk Phrases under Section 2:

R10 : Flammable.

R20/21: Harmful by inhalation and in contact with skin

R38: Irritating to skin

R50/53: Too toxic for aquatic organisms and may cause long-term adverse effects in the aquatic environment

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**Prepared By** : Remzi Can KARAN

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.