

# MATERIAL SAFETY DATA SHEET

**SUBSTANCE / PREPARATION NAME**

**SUPPORT**

Date of preparation	27/07/2015
ReleaseDate	27/07/2015
MSDS No	FORM_MSDS_R&D_211_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** : SUPPORT  
**Content** : Zeta-cypermethrin 100 g/l  
**FormulationType** : Emulsion, oil in water (EW)

#### Zeta-cypermethrin

**Cas No** : 52315-07-8  
**EC No** : 257-842-9  
**IRAC** : 3A pyrethroid

### 1.2 Usage of Substance/Preparation:

Insecticide

### 1.3 Firm Presentation of the Company:

#### **Manufacturer and License 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 and Emergency and National Poison Center 114.

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## 2. INFORMATION ABOUT THE CONTENT/COMPOSITION:

Substance	g/l	CAS No	EINECS/ELINCS	Hazard	R <sup>1</sup>	Classification
Zeta Cypermethrin	100	52315-07-8	257-842-9	Xn, Xi, N	R20/22, R37, R50/53	Xn; R22-37 N; R50/53
Aromatic Hydrocarbon Solvent	100	-	-	Xn, Xi, N	R10, R37, R65, R66, R67, R51/53	R10, Xn; R37-R65 R66, R67 N; R51/53
Digerleri	It's out of classification in that does not contain dangerous substances.					

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

## 3. IDENTIFICATION OF HAZARDS:



**Xn: HARMFUL**



**N: DANGEROUS FOR THE ENVIRONMENT**

R37 - Irritating to respiratory system.

R65 - Harmful: may cause lung damage if swallowed.

R67 - Vapors may cause drowsiness and dizziness.

R 51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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#### 4. FIRST AID PRECAUTIONS:

**General Suggestion:** In case of emergency, call a doctor; take the pesticide label with you.

**Eye Contact:** Wash eyes with plenty of water.

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

**If inhaled:** Move patient to fresh and well-ventilated area, call a doctor.

**If swallowed:** If patient is not unconscious, the mouth should be rinsed. Do not give anything oral.

#### 5. FIRE-FIGHTING MEASURES

**Suggestion for the fire department:** Use full mask with oxygen tube if required.

**Hazards:** Formation of dangerous gases as carbon oxides (COx), nitrogen oxides (NOx) and sulphur oxides is taken into account in case of fire.

**Fire extinguishers:** Water mist, foam, carbon dioxide, extinguishing powder.

#### 6. ACCIDENTAL RELEASE PRECAUTIONS:

**Personal Alerts:** Use personal protective equipments specified in section 8.

Avoid contact with spilled product or contaminated areas. Do not eat, drink or smoke when dealing with spilled product. Avoid from dust formation.

**Environmental Precautions:** If there is no safety hazard, avoid the leakage. The remaining amount of waste must not be poured to sewage canal.

**The Cleaning Process:** Absorb with an appropriate absorbent. Throw the disposal into suitable containers.

**Additional Precautions:** Refer to Section 13 for disposal.

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## 7. HANDLING AND STORAGE

**Handling** : Avoid contact with skin and eyes. Do not breathe it. Wash your hands after usage.

**Storage** : Store in original container in a cool, dry and well-ventilated place.

## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

**Engineering Precautions:** Keep the substance concentration below the allowable limits by providing the appropriate general or regional ventilation. Wash your hands before and after using.

### 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 store reduce the risk, for example, in local ventilations. Warning instructions prepared by manufacturers about respiratory protection apparatus must be followed.

**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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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** : Liquid  
**Color** : White  
**Odor** : Aromatic  
**pH** : 6.0±11% (20<sup>0</sup>C)  
**Density** : 1.01±0.05g/cm<sup>3</sup> (20<sup>0</sup>C)

## 10. STABILITY AND REACTION

**Conditions to avoid** : Direct sunlight and extreme temperatures.

**Materials to avoid:** Strong acids and alkaline.

**Hazardous reactions** : When stored and handled appropriately no hazardous reactions are observed.

## 11. TOXICOLOGICAL INFORMATION

**Zeta-cypermethrin Technical Substance:**

**Oral** Acute oral LD<sub>50</sub> for rats 269–1264 mg/kg.

**Skin and eye** Acute percutaneous LD<sub>50</sub> for rabbits >2000 mg/kg.

**Inhalation** LC<sub>50</sub> (4 h) for female rats 1.26 mg/l.

**NOEL** (1 y) for dogs 5 mg/kg b.w. daily.

**ADI/RfD** (JMPR) 0.02 mg/kg b.w. (group ADI for cypermethrin, alpha-cypermethrin and zeta-cypermethrin) [2006]; (EC) 0.04 mg/kg b.w. [2008]; (BfR) 0.05 mg/kg b.w. [2004].

**Toxicity Class** WHO (a.i.) Ib.

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## 12. ECOLOGICAL INFORMATION

### Zeta-cypermethrin Technical Substance:

**Birds** Acute oral LD<sub>50</sub> for ducks >10 248 mg/kg.

**Fish** LC<sub>50</sub> 0.69–2.37 µg/l, depending on species.

**Daphnia** LC<sub>50</sub> (48 h) 0.14 µg/l.

**Algae** E<sub>r</sub>C<sub>50</sub> for *Pseudokirchneriella subcapitata* >0.248 mg/l.

**Other aquatic spp.** NOEC (28 d) for *Chironomus riparius* 0.0001 mg/l.

**Bees** Non-toxic under field conditions.

**Worms** Normal use does not affect earthworm populations; LC<sub>50</sub> (14 d) 75 mg/kg soil.

## 13. DISPOSAL INFORMATION

**Product:** Hazardous waste that cannot be recovered should be disposed of according to control regulation. Agree with one of the waste disposal firm. Solve the material with a combustible solvent or mixed with this solvent and burn in a combustion furnace.

**Contaminated Packing:** Dispose the waste as an uncontaminated packaging.

## 14. TRANSPORT INFORMATION

### ADR/RID/ADNR

UN-No. : 3082

DangerSignal : 9

PackagingGroup : III



**Property of the product** : UN 3082 Environmental hazardous substance, liquid N.O.S. (CONTAINS ZETA-CYPERMETHRIN VE AROMATIC HYDROCARBON)

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### IMDG

**UN-No.** : 3082  
**Class** : 9  
**PackagingGroup** : III  
**SeaPollutant** : Yes  
**Property of the product** : UN 3082 Environmental hazardous substance, liquid  
N.O.S. (CONTAINS ZETA-CYPERMETHRIN VE AROMATIC HYDROCARBON)

### IATA

**UN-No.** : 3082  
**DangerSignal** : 9  
**PackagingGroup** : III  
**Property of the product** : UN 3082 Environmental hazardous substance, liquid  
N.O.S. (CONTAINS ZETA-CYPERMETHRIN VE AROMATIC HYDROCARBON)

## 15. REGULATORY INFORMATION

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## Hazard Signal and Symbol:



**Xn:HARMFUL**



**N: Dangerous for the environment**

## Hazardous Substances Found On The Label:

Contains Zeta-cypermethrin ve Aromatic Hydrocarbon.

## Risk Phrases

### Health:

R37 - Irritating to respiratory system.

R65 - Harmful: may cause lung damage if swallowed.

R67 - Vapors may cause drowsiness and dizziness.

### Environment:

R 51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## Safety Phrases:

S1/2 : Keep out of reach of children

S 46 : If swallowed, seek medical advice immediately and show this container or label

S 52 : Not recommended for interior use on large surface areas

S62 : If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label



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### Important Labeling:

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

### 16. OTHER INFORMATIONS

**Xn** : Harmful  
**Xi** : Irritant  
**N** : Dangerous for the environment

#### Risk phrases mentioned in Section 2:

R10 - Flammable.  
R 20/22 - Harmful by inhalation and if swallowed.  
R37 - Irritating to respiratory system.  
R65 - Harmful: may cause lung damage if swallowed.  
R66 - Repeated exposure may cause skin dryness or cracking.  
R67 - Vapours may cause drowsiness and dizziness.  
R50/53 - May cause long-term adverse effects in aquatic environments.  
R 51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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**PreparedBy** : Remzican KARAN

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