



SAFETY DATA SHEET

(It was prepared in parallel with Regulation on Drawing Up and Distribution of Safety Data Sheets Relating to Hazardous Substances and Preparations published in the Official Gazette dated 26/12/2008 and numbered 27092 which came into force and the provisions relating to safety data sheets of REACH Statute numbered 1907/2006/EC).

Substance / Preparation Name: **ECOTOX ALFA SE**
Date of Preparation : June 2010
Updated Date of Preparation : June 2013
Number of preparation : 2
Form No: Page Number : 1 / 8

Article 1. / Identification of the Preparation and of the Company/Undertaking	
1.1 Identification of the Preparation	
Name of Active Substance: Alfa Cypermethrin	6.5%
: Tetramethrin	3.5%
: Piperonyl Butoxide	17.5%
Alternative Brand Name:	
Formula: Suspo Emulsion	
1.2 Use of Preparation	
INSECTICID	
1.3 Identification of the Company	
Company Name: ENTOSAV İlaçlama İnş. Tem. ve Hiz. İşlt. San. Tic. Ltd. Şti.	
Address: Osman Yılmaz Mah. İstasyon Cad No: 638 Gebze-KOCAELİ	
Telephone Number: 0 262 642 11 82	Fax Number: 0 262 642 33 75
Internet Address: www.entosav.com	e-mail address: info@entosav.com
1.4 Emergency Telephone Number	
Telephone Number of the Manufacturer: +90 262 642 11 82	
Telephone Number of National Poison Center: 114	

2. COMPOSITION / INFORMATION ON INGREDIENTS	
2.1 General Identification of Composition and Concentrations	
Alfa-Cypermethrin	6.5%
Tetramethrin	3.5%
Piperonyl Butoxide	17.5%
Solvent and inactive ingredients: completes to 100%	
2.2 .Substances and Concentrations in Preparation Classified as Hazardous	
Product was classified as hazardous in accordance with Regulation RD 255/2003 and 1999/45/EC It is toxic, guide sign and phrase of "Hazardous for Environment" and N letter.	

2.4 Hazard Symbol and Risk Wording				
Hazard Symbol:	Xn 	Risk No:	R 22	Harmful if swallowed.
	N 		R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.5

<u>Substance Name:</u>	<u>EINECS No:</u>	<u>ELINCS No:</u>	<u>CAS No:</u>	<u>IUPAC Name</u>
Alfa-Cypermethrin			67375-30-8	[1.alpha.(S*),3.alpha.]-(.alpha.)-siyano-(3-fenoksifenil)methyl 3-(2,2-dikloroetenil)-2,2-diklorovinil)-2,2-dimetilsiklopropankarboksilat / alpha-Cypermethrin
Tetramethrin			7696-12-0	Cyclohex-1-eno-1.2-dicarboxymidomethyl (1R, 3R;1R, 3R)-2.2-dimethyl-3-(2-methyl-prop-1-enyl) cyclopropanecarboxylato
Piperonyl Butoxide			51-03-6	2-(2-Butoxyetoxy)ethyl 6-propilpiperonyl ether

2.6 Chemical Structures of the Substances for Safe Handling

Alfa-Cypermethrin	:C ₂₂ H ₁₉ Cl ₂ NO ₃
Tetramethrin	:C ₁₉ H ₂₅ NO ₄
Piperonyl Butoxide	:C ₁₉ H ₃₀ O ₅

3. Hazards Identification

- Hazards that Substance/Preparation may Present to Human Health and Environment:**

- Health:**

When poisoned: dermatitis, irritation in eyes, nose and throat may appear. Excessive sensitive reactions with bronchitis spasms may arise. May cause nausea, vomiting, severe headaches and paraesthesia peribuccal. May cause pneumonia by breathing. May cause central nervous system depression.

- Environment:**

Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

4. First Aid Measures

- Eye contact:**

In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Obtain medical attention immediately.

- Skin contact:**

Remove person from medicated area. Take off contaminated clothing. Rinse skin with plenty of water and soap without scrubbing.

- Inhalation:**

Control the breathing system. If not breathing, give artificial respiration. Move person to fresh air. Call a doctor for further treatment advice if patient does not feel well.

- Ingestion:**

If swallowed: Do not induce vomiting. Let the patient rest. Keep body temperature.

- Notes to physician:**

DO NOT LEAVE PATIENT ALONE IN ANY WAY.

If swallowed: Antidote application by means of digestive organ according to the consciousness of the patient. Make him/her drink slurry composed of active carbon and sodium sulphate with intensive salt. It is definitive treatment.

5. Fire-Fighting Measures
a. Suitable extinguishing media and Hazards Special Fire-Fighting Procedure: Water spray, foam, chemical powder and CO ₂
b. Unsuitable Extinguishing and Extinguishing Method: Do not apply pressurized directly.
c. Exposure to Combustion Products and Gases Coming out from burning materials: Gases may be toxic and/or irritant coming out from fires. Preventive measures should be taken to prevent the extinguishing agent covered by these materials from soaking into soil or spreading uncontrolled.
ç. Special protective equipment: Use automatic aspiration equipment to be protected from smoke. Wear protective clothes.
6. Accidental release measures
• Personal precautions: Provide adequate ventilation. Use suitable protective equipment.
• Environmental Precautions: Do not allow product reaching waste pipes and waterways, rivers and groundwater, sewers and avoid soil contamination.
• Methods for cleaning up: Absorb with materials such as soil, sand, diatomite. Collect using an inert non-combustible absorbent material. Collected material should be disposed of in accordance with local regulations.
Warnings:
7. Handling and Storage
7.1 . Handling Protective Measures: Avoid contact with eyes, skin.
7.2 . Storage Conditions: Store in original container closed. Keep in a dry, cool and well-ventilated place. Keep away from light and humidity. Appropriate package material Polyethylene bottles. Maximum Storage Temperature: 35°C Minimum Storage Temperature: 5°C
7.3 . Special Use(s)
8. Exposure Controls/Personal Protection
8.1 . Exposure limits
Maximum Professional Exposure Limit Exposure limits is not known during workmanship.
8.2 . Exposure Controls
8.2.1. Occupational Exposure Controls Exposure limits is not known during workmanship.
8.2.1.1. Respiratory protection

Use protective equipment having filter for organic vapour.

8.2.1.2. Hand protection

Wear protective gloves resistant to chemicals.

8.2.1.3. Eye/face protection

Wear chemical protective goggles or a face-shield.

8.2.1.4. Skin protection

Use appropriate protective equipment.

8.2.2. Environmental Exposure Controls

Use and keep the product in compliance with local laws and regulations. Very toxic to aquatic life and may affect the environment with negative effects for a long time.

9. Physical and chemical properties

9.1 . General Information

9.1.1. Appearance

Physical state: Opaque liquid **Flash Point:** Not applicable.

9.1.2. Odor: Faint, nearly odorless

9.2. Important Health, Safety and Environmental Information

DESCRIPTION	VALUE	UNIT
pH	4.5-5.5	
Melting Point/Range	No information available	°C
Flash Point	Not applicable	°C
Burning Point Temperature (solid, gas)	No information available	°C
Explosive Features		
Oxidizing properties		
Vapor P ressure	No information available	Bar
Relative Density	1.02-1.05 g/ml 20°C	
Solubility	Soluble in water.	
Solubility in oil (solvent oil :)		
Partition coefficient; n-octanol / water		
Viscosity	1000 mPa.s	
CVapour Density		
Evaporation rate, ratio		

9.3. Other Information

- Miscibility
- Conductivity

• Melting Point/Range	
• Gas group	
• Auto Ignition Temperature	
• Other Safety Parameters	

<p>10. Stability and reactivity Stable under normal conditions.</p>
<p>10.1 . Conditions to avoid: Keep away from light and moisture</p>
<p>10.2 . Materials to avoid : Strong oxidizing materials, strong acids and strong bases</p>
<p>10.3 . Hazardous Degradation / Dissolution Materials: Not applicable.</p>
<p>○ The need for and the presence of stabilizers</p>
<ul style="list-style-type: none"> • Possibility of a hazardous exothermic reaction
<ul style="list-style-type: none"> • Safety significance, if any, of a change in physical appearance of the substance or preparation
<ul style="list-style-type: none"> • Hazardous decomposition products, if any, formed upon contact with water,
<ul style="list-style-type: none"> • Possibility of degradation to unstable products: No hazardous decay product had been detected.

<p>11. Toxicological information</p>
<p>Hazardous effects to health :</p>
<p>Eye and skin: Alfa Cypermethrin May cause slight irritation (rabbits)</p>
<p>ACUTE TOXICITY: Acute oral LD₅₀ of Alfacypermenthrin for rats: 79 mg/kg Tetramethrin : 5000 mg/kg Piperonyl Butoxide: 7500 mg/kg</p>
<ul style="list-style-type: none"> • Known Effects
<p>Chronic Effects :</p>
<p>Sensitization Alfa Cypermethrin, Tetramethrin and Piperonyl Butoxide are not sensitive substances.</p>
<p>Carcinogenic There are no Carcinogenic findings for Alfa Cypermethrin, Tetramethrin ve Piperonyl Butoxide.</p>
<p>Mutagenic There are no Mutagenic findings for Alfa Cypermethrin, Tetramethrin ve Piperonyl Butoxide.</p>

Reproductive toxicity

There are no teratogenic findings for Alfa Cypermethrin, Tetramethrin ve Piperonyl Butoxide.

- **Exposure Ways**
- **Effects that may Arise Depending on Physical, Chemical and Toxicological Features**
- **Supplemental Toxicological Information:**

12. Ecological information

12.1. Ecotoxicity

Very toxic for aquatic lives.

12.2. Mobility:

No data.

12.3. Persistence and Degradability:

Product is bio soluble.

12.4. Bioaccumulative Potential:

No data.

12.5. other adverse effects

13. Disposal considerations

Waste disposal methods

Follow the rules relating to protective cloth and other measures.

Prevent burning the solid substance by soaking carefully.

Use water with soap and carbon to clean up the exposed floor and other materials.

Do not allow package of the product reaching waste pipes, sewers and environment.

Prevent product leakage by covering it with soil, sand or diatomite soil.

Medicine should be scrapped until infected soil layers reach to uninfected layers.

Use an suitable safety container to prevent infection.

Do not discharge product ABSOLUTELY into municipality' waterways, sewage system and rivers.

Application and disposal should be performed in compliance with local laws.

Discharged product cannot be reused, must be disposed.

Product should be disposed in an authorized residual waste area.

Dispose of Package and Materials Infected with Substance / Preparation :

Empty cans should be disposed of by authorized institution.

14. Transport information

Classification of Transportation

Transportation Classification for Motorway/Railway Transportation RID/ADR

Title: Liquid potentially dangerous for the environment, n.e.p (Alfa Cypermethrin 6.5%, Tetramethrin 3.5%)

Additional Info: Insecticide at low hazardous level

Restricted Quantity: LQ7



Transportation Coding

ADR/RID:

Maritime Transportation Code Classification - IMDG Title: Liquid potentially dangerous for the environment, n.e.p (Alfa Cypermethrin 6.5%, Tetramethrin 3.5%) Additional Info: Insecticide at low hazardous level	IMDG:
Airway Transportation Classification – ICAO/IATA Title: Liquid potentially dangerous for the environment, n.e.p (Alfa Cypermethrin 6.5%, Tetramethrin 3.5%) Additional Info: Insecticide at low hazardous level.	ICAO/IATA:

Of Substance / Preparation

UN Number	3082
Class	9
Delivery Title Comply with System:	
Package Group	111
Marine pollutant substance: (Alfa Cypermethrin 6.5%, Tetramethrin 3.5%)	
Other Applicable Information	

15. Regulatory information
<ul style="list-style-type: none"> Information Related to Health, Safety and Environment on the Label:
HAZARDOUS (Xn)  DANGEROUS FOR ENVIRONMENT (N) 
<ul style="list-style-type: none"> Prohibition and/or Restrictions and Relevant Regulation : Relevant National Regulation : REGULATION on CLASSIFICATION, PACKAGING AND LABELING of HAZARDOUS SUBSTANCES AND PREPARATIONS.
<ul style="list-style-type: none"> Other National Measures Safety Measures:

16. Other Information
<ul style="list-style-type: none"> Risk Phrases Related to Risk Events R 22: Harmful if swallowed. R 50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<ul style="list-style-type: none"> Training advices relating to secure use of substance/preparation S 2: Keep out of the reach of children. S13: Keep away from food, drink and animal feeding stuffs.

S 29/56: Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

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

S 61: Avoid release to the environment. Refer to special instructions/safety data sheet.

- **Recommended uses and restrictions for substance/preparation**

Don't spray medicine towards hot surfaces and flame.

- **Additional Information**

These are the information we have currently. However, it does not mean that these are absolute data in case special events occur for this product.

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