

# MATERIAL SAFETY DATA SHEET

NAME OF MATERIAL/PREPARATION

**FILAP 20 EC**

Date of Preparation	31/08/2011
Date of Issue	31/08/2011
MSDS No	FORM_MSDS_R&D_041_01
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** : **FILAP 20 EC**  
**Product Content** : Ethoprophos 200 g/L  
**Formulation Form** : EC (Emulsion Concentrate)  
**Cas No** : 13194-48-4  
**EC No** : 236-152-1  
**IRAC** : 1B organophosphate

### 1.2 Usage of the Material/Preparation:

Insecticide

### 1.3 Company Identification:

#### Manufacturing and License Holding Company:

**Company Name** : AGRI SCIENCES TARIM VE ILAC UR. SAN. TIC. LTD. STI.  
**Address** : Bekir Saydam Caddesi Pancar No: 31 Torbali / IZMIR  
**Telephone** : +90 0232 864 13 33  
**Fax** : +90 0232 864 16 79

### 1.4 Emergency Contact Telephone:

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

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## 2. COMPOSITION AND INFORMATION ON INGREDIENTS:

Material	g/L	CAS No	EINECS/ELINCS	Hazard	R <sup>1</sup>	Classification
Ethoprophos	200	13194-48-4	236-152-1	T <sup>+</sup> , T, Xi, N	R26/27, R25, R43, R50, R53	T <sup>+</sup> ; R26/27, Xn; R25, R43, N; R50, R53
Solvesso 100	>600 g/L	63231-51-6	-	Xn, Xi	R10, R20/R21, R38	R10, Xn, R38
Others	Out of classification due to not including dangerous material					

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

## 3. HAZARD IDENTIFICATION:



**T+: Too Toxic**



**N: Dangerous for Environment**

- R10 : Flammable.
- R25 : Too toxic if swallowed
- R26/27 : Too toxic in case of inhale and contact with skin.
- R38 : Irritates skin.
- R43 : May cause sensitivity in case of contact with skin.
- R50 : Too toxic for aquatic organisms.
- R53 : May cause long-term negative effects in aquatic environments.

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## 4. FIRST AID MEASURES:

**Poison symptoms:** Headache, drowsiness, weakness, sweating, anger, visual impairment and blurriness, diarrhea, respiratory hardness, salivary, vomit, empurpling, miosis tremor, muscle contraction, air flex problem.

**First Aid Measures:** Do not puke if swallowed. Call a doctor immediately. Wash plenty of water at least 15 minutes in case of contact with eye or skin.

**Antidote and Necessary Information:** Atropine Sulfate and Toxogonin. Atropine Sulfate can be given according to the severity of the poisoning by 2-3 mg to 100 mg.

## 5. FIRE FIGHTING MEASURES

**Personal Protective Equipment during fight:** Do not inhale the occurred gases during explosion and fire. Use air-independent respiratory mask during fire if possible.

**Dangers:** Consider the dangerous gases during the fire.

**Extinguishers:** Foam, carbon dioxide, fire-extinguishing powder

**Other Details:** Take the product away from the fire point. Cool the containers with water. If possible, use sand or earth after extinguishing water.

## 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.

**Clean-up Methods:** The poured material is collected with a liquid catcher material (for instance; sand, sawdust, chemical binder). 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. Prevent the product to contaminate to running water or sewage. In case it's contaminated with water, inform the authorized persons.

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

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## 7. HANDLING AND STORAGE

**Handling** : Please use the personal protection equipment specified under Section 8. Do not eat or drink while using. Prevent the contact with mouth, skin and eyes. Do not inhale. Wash your hands after using. Other security precautions are not required except of stated warnings during using the closed package. Use only in rooms, in which there is a local sucking device.

**Storage** : Keep in original package in cool, dry and well ventilated places. Keep away from food and animal feed items. Keep away from direct sunlight. Protect against freezing. Keep it in places that children cannot reach. Storage temperature 0-30 °C

## 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** : Use eye protection equipment compliant with EN 166.

**Skin** : 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** : 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.

**Hygiene Measures:** Do not eat, drink or smoke while handling the product. Wash your hands each time before eating, drinking, smoking or going to the toilet.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	: Liquid, clear
<b>Color</b>	: Orange-Yellow
<b>Odor</b>	: Aromatic odor
<b>Density</b>	: 0,885-0,985 g/cm <sup>3</sup> (20 <sup>0</sup> C)
<b>pH</b>	: 2-6 10% (20 <sup>0</sup> C)
<b>Flashing Point</b>	: 40 <sup>0</sup> C.

## 10. STABILITY AND REACTIVITY

<b>Conditions to be avoided</b>	: Extreme degrees and direct sun light
<b>Materials to be avoided</b>	: Keep away from strong acids and basis
<b>Dangerous reaction</b>	: There is no dangerous reaction in appropriate storage and usage. It is resistant in mentioned storage conditions. No dangerous polymerization products.

## 11. TOXICOLOGICAL INFORMATION

### Etoprophos Technical Material:

Acute Oral LD<sub>50</sub> rat 62, rabbit 55 mg/kg.

Skin and eye: Acute percutaneous LD<sub>50</sub> rabbit 26 mg/kg.

Inhalation LC<sub>50</sub> rat 123 mg/m<sup>3</sup>

Toxicity Class: WHO (a.i.) Ia; EPA (formulation) II

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### 12. ECOLOGICAL INFORMATION

#### **Etoprophos Technical Material :**

Birds Acute Oral LD<sub>50</sub> mallard duck 6,1 mg/kg

Fish LC<sub>50</sub> (96 hours) *rainbow trout* 13.8, *bluegill sunfish* 2.1, *goldfish* 13.6 mg/l.

Bee: Not harmful for bees if used according to the instructions.

### 13. DISPOSAL INFORMATION

**Product** : Do not dispose it 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.

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### 14. TRANSPORTATION INFORMATION

#### ADR/RID/ADNR

**UN-No.** : 3017

**Hazard Mark** : 6.1

**Packing Group** : III

**Product type** : UN 3017 PESTICIDE WITH ORGANOPHOSPHOR, LIQUID, TOXIC, COMBUSTIBLE, FLASHING POINT IS NOT LOWER THAN 23°C. (INCLUDES ETOPROPHOS, AND SOLVESSO 100.)

#### IMDG

**UN-No.** : 3017

**Hazard Mark** : 6.1

**Packing Group** : III

**Product type** : UN 3017 PESTICIDE WITH ORGANOPHOSPHOR, LIQUID, TOXIC, COMBUSTIBLE, FLASHING POINT IS NOT LOWER THAN 23°C. (INCLUDES ETOPROPHOS, AND SOLVESSO 100.)

**Marine Pollutant** : Yes

#### IATA

**UN-No.** : 3017

**Hazard Mark** : 6.1

**Packing Group** : III

**Product type** : UN 3017 PESTICIDE WITH ORGANOPHOSPHOR, LIQUID, TOXIC, COMBUSTIBLE, FLASHING POINT IS NOT LOWER THAN 23°C. (INCLUDES ETOPROPHOS, 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:



**T+:Toxic**



**N:Dangerous for Environment**

### Hazardous Materials Listed on the Label

Includes Ethoprophos and Solvesso 100.

### Risk Phrases:

#### Physicochemical:

R10 : Flammable.

#### Health:

R25 : Toxic if swallowed.

R26/27 : Too toxic in case of inhalation and contact with skin.

R38 : Irritates skin.

R43 : May cause sensitivity in case of contact with skin.

#### Environment:

R50 : Too toxic for aquatic organisms.

R53 : May cause long-term negative effects in aquatic environments



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### Safety Phrases:

- S1/2 : Keep it locked and a place where children cannot reach
- S13 : Keep away from food, drink and animal feed.
- S20 : Do not eat or drink during usage.
- S24 : Avoid contacting with skin.
- S 27 : Take off all clothes contaminated with this material.
- S 28 : Wash with plenty of water in case of contact with skin.
- S 29 : Do not spill in sewage system.
- S 35 : Dispose of this material and its container carefully.
- S 38 : Insert appropriate respiratory device under insufficient ventilation.
- S 36/37/39 : Wear appropriate protective clothes, gloves and glass/mask.
- S43 : Use foam, carbon dioxide, extinguishing powder in case of fire.
- S45 : Call a doctor if you feel bad or in case of accident.
- S:46 : If swallowed, call a doctor. Show the container or label
- S 51 : Use in a well-ventilated place.
- S 56 : Dispose of this material and its container dangerous or special waste collection areas.
- P11 : It can be used by professional users.

### Important Labeling:

Follow instructions to avoid personal and environmental risks.

Toxicity Class: WHO (a.i.) Ia; EPA (formulation) II

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### 16. OTHER INFORMATION

**N** : Dangerous for Environment  
**Xi** : Irritates  
**Xn** : Harmful  
**T** : Toxic  
**T+** : too toxic

#### All Risk Phrases under Section 2:

R10 : Flammable.  
R20 : Harmful in case of inhalation.  
R25 : Toxic if swallowed.  
R26/27 : Too toxic in case of inhalation and contact with skin.  
R38 : Irritates skin.  
R43 : May cause sensitivity in case of contact with skin.  
R50 : Too toxic for aquatic organisms.  
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**Prepared by** : Zeynep COBAN

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.