

# MATERIAL SAFETY DATA SHEET

**PRODUCT NAME**

**AGEROS**

Date of Preparation	01/09/2015
Date of Issue	01/09/2015
MSDS No	FORM_MSDS_R&D_247_00
Rev. Date/No	

Sayfa No: 1/10

**This MSDS is written according to MSDS PREPARATION AND DISTRIBUTION REGULATION FOR HAZARDOUS SUBSTANCE AND PREPARATIONS (R.G. 26/12/2008-27092)**

## 1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

**Trade Name** : AGEROS  
**Product Content** : HALOXYFOB-R-METHYL ESTER 31,15 g/L  
**Formulation Type** :EC (Emulsion Concantrate)

**Cas No** : 72619-32-0  
**EC No** : 406-250-0  
**HRAC** : A WSSA 1 aryloxyphenoxypropionate

### 1.1 Use Of Substance:

Herbicide

### 1.2 Manufacturer Information

**Company Name** : AGRI SCIENCES Tarım ve İlaç Ür. San. ve Tic. Ltd. Şti.  
**Address** : Bekir Saydam Cad. No: 31 Pancar, Torbalı-İZMİR TURKEY  
**Tel** : +90 232 864 13 33  
**Fax Number** : +90 232 864 16 79  
**Website** : www.agri-sci.com

### 1.3 Emergency:

**Emergency Tel** : +90 232 8641433

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## 2. COMPOSITION /INFORMATION ON INGREDIENTS

Material	g/L	CAS No	EINECS/ELINCS	Hazardous	R <sup>1</sup>	Classification
Haloxifob-R-Methyl Ester	31,15	72619-32-0	406-250-0	N	R51/53	N; R51/R53
XYLENE	>500	1330-20-7	215-535-7	Xn, Xi	R10, R20/21, R38	R10, Xn; R20/21, Xi; R38
Others	Outside classification due to absence of hazardous material.					

- <sup>1</sup> R: Please see section 16 of explanation of R phrases

## 3. HAZARD IDENTIFICATION



**Xn: Harmful**



**N: Dangerous for environment**

R10: Flammable

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

R38: Irritating to skin

R51/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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## 4. FIRST AID MEASURES

### TOXICATION SYMPTOMS:

Headache, dizziness, weakness, nausea and haze

### FIRST AID PRECAUTIONS:

In case you or another feel unwell or poisoned immediately stop the work. Avoid further contact with the product. Any coveralls, clothes etc. which came into contact with the pesticide should be removed and any parts of the body which came into contact with the pesticide should be washed with plenty of soap and water. In case there was any pesticide contact with eyes, wash the eyes with plenty of slowly flowing clean water for 15 minutes. If necessary contact a physician. Or take the patient to a physician and show this container or label. Do not give anything orally to the patient in case the patient is unconscious.

### ANTIDOTE:

No special antidote. Symptomatic treatment is followed.

## 5. FIRE FIGHTING MEASURES

**Personal Protective Equipment:** Do not inhale the fumes generated during the explosion or fire. If available, use air-independent respiratory mask during the fire.

**Dangers:** Consider the dangerous fumes such as hydrogen chloride or carbon monoxide generated during the fire.

**Extinguishers:** Foam, CO<sub>2</sub>, fire extinguishing powder.

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

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## 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 spilled material should be collected with a liquid absorbent material (for instance; absorbent sand, sawdust, chemical binder). Place the product into tightly sealed plastic containers and store it in a safe place until it is disposed. Contaminated materials and surfaces should be cleaned in compliance with environmental regulations. The spilled material should be prevented from reaching sewage and running water. If waste is mixed with water, the authorities must 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** : Keep away from acids. Please use the personal protection equipment specified under Section 8. Do not eat or drink while using. Prevent contact with mouth, skin and eyes. Do not inhale. Thoroughly wash your hands after using. Other security precautions are not required other than warnings stated regarding use of closed package. Only use in closed spaces where there is a local aspiration device

**Storage** : Keep in original package in a cool, dry and well ventilated place. Keep away from food and animal feed items. Keep away from direct sunlight. Protect against freezing. Keep it away from the reach of children..

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## **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.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** : Clear liquid

**Color** : Yellow-brown

**Odor** : Aromatic

**pH** :  $5,5 \pm 11\%$  (20<sup>0</sup>C)

**Flash-Point** :  $28 \pm 5$  °C.

**Density** :  $0,97 \pm 0,05$  g/cm<sup>3</sup> (20<sup>0</sup>C)

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## 10. STABILITY AND REACTIVITY

**Conditions to avoid:** Extreme heat and light

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

**Reactions:** Stable at appropriate storage conditions.

## 11. TOXICOLOGICAL INFORMATION

### Haloxfob-R-Methyl Ester

**Oral** Acute oral LD<sub>50</sub> for male rats 300, female rats 623 mg/kg.

**Skin and eye** Acute percutaneous LD<sub>50</sub> for rats >2000 mg/kg. Non-irritant to skin; slightly irritating to eyes (rabbits).

**NOEL** (2 y) for rats 0.065 mg/kg b.w. daily; no increase in hepatotoxicity.

**ADI/RfD** As haloxfop-P.

**Toxicity Class** WHO (a.i.) II (company classification).

**EC classification** Xn; R22| N; R50, R53.

## 12. ECOLOGICAL INFORMATION

### Haloxfob-R-Methyl Ester

**Birds** Acute oral LD<sub>50</sub> for bobwhite quail 1159 mg/kg.

**Fish** LC<sub>50</sub> (96 h) for rainbow trout 0.46, bluegill sunfish 0.0884 mg/l.

**Daphnia** EC<sub>50</sub> (48 h) >12.3 mg/l.

**Algae** EC<sub>50</sub> (5 d) for *Navicula pelliculosa* 1.72 mg/l; (4 d) for *Pseudokirchneriella subcapitata* >3.87 mg/l.

**Other aquatic spp.** EC<sub>50</sub> (14 d) for *Lemna minor* 3.1 mg/l. NOEC (28 d) for *Chironomus riparius* 3.2 mg/l, nominal.

**Bees** LD<sub>50</sub> (48 h, oral and contact) >100 µg/bee.

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**Worms LC<sub>50</sub> (14 d) 1343 mg/kg.**

## 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.

## 14. TRANSPORT INFORMATION

### ADR/RID/ADNR

**UN-No.** : 3082

**Hazard Mark** : 9

**Packing Group** : III

**Product type** : UN 3077 Environmental hazardous substance, liquid N.O.S. (CONTAINS HALOXYFOB-R-METHYL ESTER and Xylene)

### IMDG

**UN-No.** : 3082

**Class** : 9

**Packing Group** : III

**EMS** :

**Marine Pollutant** : Evet

**Product Type** : UN 3077 Environmental hazardous substance, liquid N.O.S. (CONTAINS HALOXYFOB-R-METHYL ESTER and Xylene)



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## IATA

**UN-No.** : 3082

**Class** : 9

**Packing Group** : III

**Product Type** :UN 3077 Environmental hazardous substance, liquid N.O.S.  
(CONTAINS HALOXYFOB-R-METHYL ESTER and Xylene)

## 15. REGULATORY INFORMATION

This MSDS is written according to MSDS PREPARATION AND DISTRIBUTION REGULATION FOR HAZARDOUS SUBSTANCE AND PREPARATIONS (R.G. 26/12/2008-27092)

This product is including HALOXYFOB-R-METHYL ESTER and Xylene.



**Xn: Hazardous**



**N: Dangerous for the environment**

### Risk Phrases:

R10: Flammable

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

R38: Irritating to skin

### Environment:

R51/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment



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## Safety Phrases:

- S2 : Keep out of the reach of children  
S13 : Keep away from food, drink and animal foodstuffs  
S 29 : Do not empty into drains  
S36/37 : Wear suitable protective clothing and gloves  
S:46 : If swallowed, seek medical advice immediately and show this container or label  
S 56 : Dispose of this material and its container at hazardous or special waste collection point  
S64 : If swallowed, rinse mouth with water (only if the person is conscious)

## 16. Other Informations

- N** : Dangerous for environment  
**Xi** : Irritant  
**Xn** : Hazardous

## Section 2

- R10: Flammable  
R20/21: Harmful by inhalation and in contact with skin.  
R38: Irritating to skin  
R51/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage use of the product. It is not applicable to unusual or non- standard uses of the product nor where instructions or recommendations are not followed.

All information is given in good faith bit without guarantee in respect of accuracy, and no responsibility is accepted for errors and omissions or the consequence thereof.