

# MATERIAL SAFETY DATA SHEET

NAME OF MATERIAL/PREPARATION

REWARD MAX

|                     |                      |
|---------------------|----------------------|
| Date of Preparation | 20/11/2012           |
| Date of Issue       | 20/11/2012           |
| MSDS No             | FORM_MSDS_R&D_088_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** : REWARD MAX

**Product Content** : Clodinafop-propargyl+ (Cloquintocet-mexyl) 240+(60)

**Formulation Form** : EC (Emulsion Concentrate)

**Clodinafop-propargyl**

**Cas No:** 105512-06-9

**HRAC:** A WSSA 1 aryloxyphenoxypropionate

**Cloquintocet-mexyl**

**Cas No:** 99607-70-2

**HRAC:** -

### 1.2 Usage of the Material/Preparation:

Herbisit

### 1.3 Company Identification:

**Manufacturing and License Holding 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 Contact Telephone:

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

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HAZARDOUS MATERIALS AND PREPARATIONS (O.G. issue no 27092 dated 26/12/2008).

## 2. COMPOSITION AND INFORMATION ON INGREDIENTS:

| Material             | g/L  | CAS No      | EINECS/ELINCS | Hazard | R <sup>1</sup>                    | Classification                   |
|----------------------|--|-------------|---------------|--------|-----------------------------------|----------------------------------|
| Clodinafop-propargyl | 240  | 105512-06-9 | -             | Xn; N  | R22,<br>R48/22,<br>R43,<br>R50/53 | Xn; R48/22,<br>R43, N;<br>R50/53 |
| Cloquintocet-mexyl   | 60   | 99607-70-2  | -             | Xi     | R43                               | Xi; R43                          |
| SÍKLOHEKZANON        | 80   | 108-94-1    | 203-631-1     | Xn     | R10, R20                          | R10                              |
| Ksilen               | <400   | 1330-20-7   | 215-535-7     | Xn; Xi | R10,<br>R20/21,<br>R38            | R10, Xn;<br>R20/21, R38          |
| Others               | Outside classification due to absence of hazardous material. |             |               |        |                                   |                                  |

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

## 3. HAZARD IDENTIFICATION:



**Xn: HARMFUL**



**N: DANGEROUS FOR THE ENVIRONMENT**

R10: Flammable.

R20/21: Harmful if inhaled and contacted with skin.

R38: It irritates the skin

R43: It may cause sensitivity when contact with skin.

R48/22: Harmful: If swallowed, it gives harm.

R50/53: Toxic to aquatic organisms. It may cause long-term adverse effects in the aquatic environment.

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## 4. FIRST AID MEASURES:

**Poisoning indicators:** There is no poisoning effect on human.

**First Aid Measures:** In case of poisoning please stop working and contact a doctor. In case of contact with skin or eyes, wash with plenty of water. In case contact with eye, wash with plenty of water minimum 10 minutes. In case inhale, remove the patient to fresh air. If swallowed, give medical coal with plenty of water. If swallowed large amount of concentrated medicine, call for medical assistance. Note: Do not give anything by mouth to unconscious patients

**Antidote And Essential Information:** There is no specific antidote. Treatment according to symptoms.

## 5. FIRE FIGHTING MEASURES

**Appropriate Extinguishing Media:** Foam, carbon dioxide, extinguishing powder, sand, pressure water. fire must be extinguished immediately. Use protective mask.

**Well-ventilated areas:** Combined filtered full face mask(It does not protection from carbon monoxide)

**Closed areas:** Isolation instrument. (unaffected by the environment, respiration from independent air supply).

## 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.

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**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.

**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.

Storage temperature: 0 to 40° 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 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

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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

**Form** : Liquid, clear  
**Color** : Yellow, orange  
**Odor** : Light  
**Specific Gravity** :  $0,98 \pm 0,05 \text{ g/cm}^3$  (20<sup>0</sup>C)  
**pH** : 3-7 10% (20<sup>0</sup>C)

## 10. STABILITY AND REACTIVITY

**Conditions to avoid** : Extreme temperatures and exposure to direct sunlight  
**Incompatibility with other materials** : None  
**Hazardous reactions** : When stored and handled appropriately no hazardous reactions are observed. The product is resistant to specified storage conditions.

## 11. TOXICOLOGICAL INFORMATION

### Clodinafop-propargyl Technical Material:

Acute Oral LD<sub>50</sub> male rat 1392, female rat 2271, mouse >2000 mg/kg.  
Skin and eye acute percutan LD<sub>50</sub> rat >2000 mg/kg. Not irritating for eyes and skin in rabbits  
Respiration LC<sub>50</sub> (4 hours) rat 2.325 mg/l air.

### Cloquintocet-mexyl Technical Material:

Acute Oral LD<sub>50</sub> mouse and rat >2000 mg/kg.

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Skin and eye acute percutan LD<sub>50</sub> rat >2000 mg/kg. Not irritating for skin and eye in rabbits.

Respiration LC<sub>50</sub> (4 hours) rat >0.935 mg/l air.

### 12. ECOLOGICAL INFORMATION

#### Clodinafop-propargyl Technical Material:

Birds LD<sub>50</sub> (8 days) mallard ducks >2000, bobwhite quail 1455 mg/kg.

Fish LC<sub>50</sub> (96 hours) rainbow trout 0.39, carp 0.46, catfish 0.43 mg/l.

Alg EC<sub>50</sub> (96–120 saat) *Scenedesmus subspicatus* >3.6–>78.1, *Microcystis* >65.5, *Navicula* 7.39 mg/l. EC<sub>50</sub> for *Lemna* >2.4 ppm.

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

#### Cloquintocet-mexyl Technical Material:

Birds: Not toxic. LD<sub>50</sub> mallard ducks and bobwhite quail >2000 mg/kg.

Fish: Not toxic. LC<sub>50</sub> (96 hours) rainbow trout and carp >76, bluegill sunfish >51, catfish 14 mg/l.

Alg EC<sub>50</sub> (96–120 saat) *Scenedesmus subspicatus* 0.63, *Microcystis* 2.5, *Navicula* 1.7 mg/l.

Bee: Not toxic. LC<sub>50</sub> (48 h, oral and contact) >100 µg/bee.

### 13. DISPOSAL CONSIDERATIONS

**Product** : 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.

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**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. (CLODİNAFOP-PROPARGYL, CLOQUİNTOCET-MEXYL, SİKLOHEKZANON AND KSİLEN 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. (CLODİNAFOP-PROPARGYL, CLOQUİNTOCET-MEXYL, SİKLOHEKZANON AND KSİLEN İÇERİR.)

**IATA**

**UN-No.** : 3082  
**Class** : 9  
**Packing Group** : III  
**Product Type** : (CLODİNAFOP-PROPARGYL, CLOQUİNTOCET-MEXYL, SİKLOHEKZANON AND KSİLEN İÇERİR.)

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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 Clodinafop-propargyl, cloquintocet-mexyl, SIKLOHEKZANON and ksilen

#### Risk Phrases:

##### Physicochemical:

R10: Flammable.

##### Health:

R20/21: Harmful to health when inhaled and contacted with skin.

R38: It irritates the skin

R43: It may cause sensitivity when contact with skin.

R48/22: Harmful: If swallowed, it gives harm.

##### Environment :



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R50/53: Toxic to aquatic organisms. It may cause long-term adverse effects in the aquatic environment.

### Safety Phrases:

- S1/2 : Lock it up and keep out of the reach of children.
- S13 : Keep away from food, drink and feedstuff.
- S24 : Avoid contacting with skin.
- S29 : Do not empty into drains.
- S36/37/39: Wear suitable protective clothing, gloves and eye/face protection
- S43 : Use foam, carbon dioxide, extinguishing powder in case of fire.
- S46 : If swallowed, seek medical advice immediately and show this container or label.
- S56 : Dispose of this material and its container at hazardous or special waste collection point.
- S64 : In case of swallow, wash the mouth with water (If the patient is conscious)

### Important Labeling:

Follow instructions to avoid personal and environmental risks.

## 16. OTHER INFORMATION

### All Risk Phrases under Section 2:

Xn: Harmful

Xi: Irritant

N: Dangerous for the environment

### All Risk Phrases under Section 2:

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NOT SUBJECT TO THE REGULATION ON PREPARATION AND DISTRIBUTION OF SAFETY DATA SHEETS ABOUT HAZARDOUS MATERIALS AND PREPARATIONS (O.G. issue no 27092 dated 26/12/2008).

R10: Flammable.

R20/21: Harmful to health when inhaled and contacted with skin.

R38: Irritates the skin.

R43: May cause sensitivity in case contact with skin.

R48/22: Harmful: Harmful: If swallowed, it gives harm.

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

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**Prepared By** : Secil CANAYAKIN

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.