

MATERIAL SAFETY DATA SHEET

NAME OF MATERIAL/PREPARATION

HEROXA

Date of Preparation	27/07/2015
Date of Issue	27/07/2015
MSDS No	FORM_MSDS_R&D_223_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 : **HEROXA**
Product Content : Penoxsulam 25.2 g/l
Formulation Form : OD (Yağda Dağılabilen)
Penoxsulam
CasNo : 219714-96-2
HRAC : B WSSA 2 triazolopyrimidine

1.2 Usage of the Material/Preparation:

HERBICIDE

1.3 Company Identification:

Manufacturing and License Holding Company:

Company Name : AGRİ SCIENCES TARIM VE İLAÇÜR. 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.

2. COMPOSITION AND INFORMATION ON INGREDIENTS:

Material	g/L	CAS No	EINECS/ELINCS	Hazard	R ¹	Classification
Penoxsulam	25.2	219714-96-2	-	N	R50/53	N;R50/53

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Propylenecarbonate	20	108-32-7	203-572-1	Xi	R36	Xi; R36
Others	Outside classification due to absence of hazardous material.					

- ¹ R explanations are under section 16.

3. HAZARD IDENTIFICATION:



N: Dangerous for the Environment

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

4. FIRST AID MEASURES:

First Aid Measures: In case of emergency take the patient and the pesticide label to the doctor immediately. Take off the contaminated clothes and wash with soap and detergent. If splashing to eyes, wash with plenty of water for 15 minutes. If swallowed, puke vomiting.

Antidote and Necessary Information: There is nosppecific antidote. The treatment is applied according to the symptoms

5. FIRE FIGHTING MEASURES

Extinguisher:CO₂, extinguisher powder, foam, sand. Do not use water. Get intervene to extinguish the fire until a serious danger occurs. Wear a protective mask.

In well-ventilated areas:Face mask with combined filter (It does not protect from carbon mono oxide.)

In closed areas:Isolation device (inhalation via independent air source). Prevent extinguisher water to spread to environment

Dangerous products may be occurred because of fire: Carbon dioxides, water vapor, unidentified organic components and intensive irritant fume.

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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: Product is collected with liquid holder materials (such as sand, sawdust, chemical binders). Collect the material in tight plastic containers and keep safely until it is disposed. Contaminated materials and surfaces should be cleaned in compliance with environmental regulations.

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 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 : Keepin original package in cool, dry and well ventilated places. Keep away from food, drink and animal feed items. Keep away from direct sunlight. Keep it in places that children cannot reach.

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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

Form : Liquid
Color : Light Yellow
Odor : Characteristic
Density : $0.93 \pm 0,05$ g/ml g/cm^3 (20°C)
pH : 6 ± 1 1% (20°C)

10. STABILITY AND REACTIVITY

Conditions to be avoided : Extreme degrees and direct sun light

Materials to be avoided : None

Dangerous reaction : No reaction in appropriate storage and usage. It is resistant in mentioned storage conditions

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11. TOXICOLOGICAL INFORMATION

Oral Acute oral **LD₅₀** for rats >5000 mg/kg. **Skin and eye** Acute percutaneous **LD₅₀** for rabbits >5000 mg/kg. Mild, transient eye irritation; very slight, transient skin irritation (rabbits). Not a skin sensitiser (guinea pigs). **Inhalation LC₅₀** for rats >3.50 mg/l (highest attainable concentration). **NOEL** for rats 500 mg/kg b.w. daily (maternal), 1000 mg/kg b.w. daily (embryo-foetal). **ADI/RfD (EPA) cRfD** 0.147 mg/kg b.w. [2004]. Other Not mutagenic in Ames, CHO-HGPRT, micronucleus and mouse lymphoma tests. **Toxicity Class WHO** (a.i.) .

12. EKOLOJİK BİLGİ

Birds LD₅₀ for mallard ducks >2000, bobwhite quail >2025 mg/kg b.w. Dietary LC₅₀ (8 d) for mallard ducks >4310, bobwhite quail >4411 ppm. **Fish** LC₅₀ (96 h) for common carp >101, bluegill sunfish >103, rainbow trout >102, silverside >129 mg/l. NOEC (36 d) for fathead minnows 10.2 mg/l. **Daphnia** EC₅₀ (24 h and 48 h) >98.3 mg/l. **Algae** EC₅₀ (120 h) for freshwater diatoms >49.6, blue-green algae 0.49 mg/l; (96 h) for freshwater green algae 0.086 mg/l. **Other aquatic spp.** EC₅₀ (14 d) for *Lemna gibba* 0.003 mg/l. **Bees** LD₅₀ (48 h, oral) for honeybees >110 µg/bee; (48 h, contact) >100 µg/bee. **Worms** LC₅₀ (7 d and 14 d) >1000 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.

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14. TRANSPORTATION INFORMATION

ADR/RID/ADNR

UN-No. : 3082

Hazard Mark : 9

Packing Group : III

Product type : UN 3082 ÇEVRESEL TEHLİKELİ MADDE, SIVI, N.O.S.
(INCLUDES PENOXSULAM)

IMDG

UN-No. : 3082

Class : 9

Packing Group : III

EMS :

Marine Pollutant : Yes

Product type : UN 3082 ÇEVRESEL TEHLİKELİ MADDE, SIVI, N.O.S.
(INCLUDES PENOXSULAM)

IATA

UN-No. : 3082

Class : 9

Packing Group : III

Product type : UN 3082 ÇEVRESEL TEHLİKELİ MADDE, SIVI, N.O.S.
(INCLUDES PENOXSULAM)

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).

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Hazard Marks and Symbols:



N: DANGEROUS FOR THE ENVIRONMENT

Hazardous Materials Listed on the Label

Includes PENOXSULAM

Risk Phrases:

Physicochemical:-

Health:

Environment:

R51/53 : Toxic to aquatic organisms, 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.

S9 : Keep container in a well-ventilated place

S29 : Do not empty into drains

S56 :Dispose of this material and its container at hazardous or special waste collection point

Important Labeling:

Follow instructions to avoid personal and environmental risks

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16. OTHER INFORMATION

N: Dangerous for the environment

All Risk Phrases under Section 2:

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

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Prepared By : Remzi Can KARAN

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.