

MATERIAL SAFETY DATA SHEET

NAME OF MATERIAL/PREPARATION

KORAZIM

Date of Preparation	16/09/2015
Date of Issue	16/09/2015
MSDS No	FORM_MSDS_R&D_253_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 : **KORAZIM**
Product Content : CLOPRYRALID 100 G/L
Formulation Type : SL (Soluble Concentrate)
CAS No : **1702-17-6**
EC No : **216-935-4**
HRAC : O WSSA 4 pyridinecarboxylic acid

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 : +900232 864 16 79

1.4 Emergency Contact Telephone:

In case of an emergency please call +90 0232 864 13 33 and National Poison Information Centre (UZEM) 114.

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2. COMPOSITION AND INFORMATION ON INGREDIENTS:

Material	g/L	CAS No	EINECS/ELINCS	Hazard	R ¹	Classification
CLOPYRALID	100	1702-17-6	216-935-4	Xi N	R41 NR52/53	Xi; R41 N; R52/53
ETANOLAMIN	34	141-43-5	-	Xi	R38 R41	Xi; R41 R38
M-PYROL	200	872-50-4	-	Xi	R38 R41	Xi; R38 R41
Others*						

- ¹ R explanations are under section 16.
- It is not classified in that it does not include hazardous chemicals.

3. HAZARD IDENTIFICATION:



Xi: IRRITANT



N: DANGEROUS FOR THE ENVIRONMENT

R38 : Irritant to skin.

R41 : Serious damage risk on eye

R52/53: Toxic for aquatic organisms, may cause adverse effects longtime in aquatic environment.

4. FIRST AID MEASURES:

Poisoning Symptoms: Headache, dizziness, weakness and blurred vision etc.

First Aid Measures: In a state of poisoning seek medical advice immediately and show this container or label. In case of contacting with skin wash with plenty of water and soap.

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Take away the patient from contaminated area. Take off contaminated clothes. If the patient is conscious make he/she puke. If respiration slow down, make rescue breathing. Keep the patient warm and lay down by turning his head.

Antidote : There is no special antidote.

Treatment: Treatment is applied according to the symptoms.

5. FIRE FIGHTING MEASURES

Extinguishers: The product is not flammable. Fire-fighting measures should be done for environment.

Personal protection equipment for fire-fighting: If possible use air-independent respiratory masks. Wear suitable protective clothes.

Other Information: Cool containers which can be hazardous with spraying 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.

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.

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 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 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 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 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.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: Liquid
Color	: Yellow
Odor	: Characteristic
Density	: $1,06 \pm 0,05 \text{ g/cm}^3$ (20 ⁰ C)
pH	: $7,5 \pm 1$ 10% (20 ⁰ C)
Flash Point	: -

10. STABILITY AND REACTIVITY

Conditions to avoid: Extreme temperatures and exposure to direct sunlight

Substances to avoid: -

Hazardous reactions: When stored and handled appropriately no hazardous reactions are observed. Durable for described storage conditions.

11. TOXICOLOGICAL INFORMATION

Clopyralid Technical Material:

Acute oral LD₅₀ rat (m) 3738 mg/kg, rat (f) 2675 mg/kg.

Skin and eye acute percutaneous LD₅₀ rabbit >2000 mg/kg. Serious eye irritant on rabbit, no irritant to skin.

Respiration LC₅₀ (4 hours) rat >0,38 mg/l air.

Toxicity Class: EPA (formulation) IV.

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12. ECOLOGICAL INFORMATION

Clopyralid Technical Material:

Fish LC₅₀ (96 hours) trout 103,5 mg/L bluegill sunfish 125,4 mg/L

Water Flea EC₅₀ (48 h) 225 mg/l. EC₅₀ (21 d) immobilisation 69, fertilizing 80 mg/l; NOEC 17 mg/l.

Alg EC₅₀ (96 h) for *Selenastrum capricornutum*, cell count 6. 9, cell size 7. 3 mg/l.

13. DISPOSAL CONSIDERATIONS

Waste Disposal : 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.

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

UN-No. : 3082

Class : 9

Packing Group : III

Product Type : UN 3082 UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S (CONTAINS CLOPYRALID)



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IMDG

UN-No. : 3082

Class : 9

Packing Group : III

Product Type : UN 3082 UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S (CONTAINS CLOPYRALID)

IATA

UN-No. : 3082

Class : 9

Packing Group : III

Product Type : UN 3082 UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S (CONTAINS CLOPYRALID)

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:



Xi: IRRITANT



N: DANGEROUS FOR THE ENVIRONMENT

Hazardous Materials Listed on the Label

Contains CLOPYRALID.

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Risk Phrases:

Physicochemical: -

Health:

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

R38 : Irritating to skin

Environment:

R 50/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S2: Keep locked up and out of the reach of children

S25: Avoid contact with eyes.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 29: Do not empty into drains

S 37: Wear suitable gloves.

S39: Wear eye/face protection.

S46: 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

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16. OTHER INFORMATION

N : Dangerous for the environment
Xi : Irritant.

All Risk Phrases under Section 2:

R20/21 : Harmful by inhalation and in contact with skin
R38 : Irritating to skin.
R 50/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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Prepared By : Sinem TOKSABAY

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.