

MATERIAL SAFETY DATA SHEET

NAME OF MATERIAL/PREPARATION

MYCORIX

Date of Preparation	24/11/2011
Date of Issue	25/11/2011
MSDS No	FORM_MSDS_R&D_045_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 : **MYCORIX**
Product Content : CYHALOFOP-BUTYL 200 G/L
Formulation Form : EC (EMULSION CONCENTRATE)
Cas No : 122008-85-9
EC No : -
HRAC : HRAC A, WSSA 1 aryloxyphenoxypropionate

1.2 Usage of the Material/Preparation:

Herbicide

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 ¹	Classification
Cyhalofop-Butyl	200	122008-85-9	-	N	R50/53	N; R50/53
Xylene	>500	1330-20-7	-	Xn, Xi	R10, R20/21, R38	R10, Xn; R20/21, R38
Others	Outside classification due to absence of hazardous material.					

- ¹ R explanations are under section 16.

3. HAZARD IDENTIFICATION:



Xn: HAZARDOUS



N: DANGEROUS FOR THE ENVIRONMENT

R10 : Flammable
R20/21 : It is harmful in case of inhale and contact with skin
R38 : Irritates to skin.
R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES:

Poisoning indicators: Poisoning symptoms, indicated in other pesticide, are not determined because of the fact that acute toxicity of the pesticide is too low. It irritates eyes. If required, call toxin advice centre.

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First Aid Measures: In case of Unexpected Situation

- *Move the patient away from the disinfection area immediately.
- *Take the contaminated clothes off at once.
- *If the pesticide contaminates the skin, wash it with soap and plenty of water.
- *If swallowed, the doctor must make a decision to drain the pesticide from the stomach.

Antidote and Necessary Information:

There is no specific antidote. The treatment is applied according to the symptoms

5. FIRE FIGHTING MEASURES

Personal protection equipment for fire fighting: Do not inhale the gases occurred during the explosion and fire. If possible use air-independent respiratory masks.

Hazards: Consider the hazardous gases come out during the fire.

Extinguishers: Foam, Carbon dioxide, fire extinguishing powder.

Other Information: Move the product away from the fire place, cool the containers using water. If possible, use sand and soil after the fire extinguishing liquid.

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. Prevent the product to be involved in sewerage system and running water. If involved in waste water, inform the authorities.

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. Wash your hands well after handling the product. 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 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

Form	: Liquid
Colour	: Yellowish orange
Odour	: Aromatic
Intensity	: $0,94 \pm 0,05 \text{ g/cm}^3$ (at 20°C)
pH	: 4-7 (10% solution)

10. STABILITY AND REACTIVITY

Conditions to avoid	: Extreme temperatures and exposure to direct sunlight
Materials to avoid	: Keep away from strong acids and bases.
Hazardous reactions	: When stored and handled appropriately no hazardous reactions are observed. Toxic and irritant vapours can be occurred due to fire and thermal degradation. The product is resistant to specified storage conditions. Hazardous polymerization products are not occurred.

11. TOXICOLOGICAL INFORMATION

Cyhalofop-Butyl Technical Material:

Acute oral LD₅₀ female and male rat – mouse >5000 mg/kg.

Eye and skin Acute percutaneous LD₅₀ female and male rat > 2000 mg/kg. It is not irritant to skin and eye. Inhalation LC₅₀ rat > 5.63 mg/l. NOEL male rat 0.8 mg/kg b.w. daily, female rat 2.5 mg/kg b.w. daily. ADI/RfD (EC) 0.003 mg/kg b.w. (2002); (EPA) cRfD 0.01 mg/kg b.w. (2002). Others: Not teratogenic and mutagenic. Toxicity class U, EPA formulation II (EC).

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12. ECOLOGICAL INFORMATION

Cyhalofop-Butyl Technical Material:

Bird Acute Oral LD₅₀ bobwhite quail and mallard ducks >5620 mg/kg.

Fish LC₅₀ rainbow trout >0.49, bluegill sunfish 0.76 mg/l.

Algae EC₅₀ (72 hours) *Selenastrum capricornutum* >1 mg/l; EC₅₀ *Navicula sp.* 0.64 – 1.33 mg/l

Bee LD₅₀ (oral and contact) >100 µg/bee. NOEC honeybee > 100 µg/bee.

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 ENVIRONMENTALLY HAZARDOUS MATERIAL, LIQUID N.O.S. (INCLUDES CYHALOFOP-BUTYL AND XYLENE)

IMDG

UN-No. : 3082

Class : 9

Packing Group : III

EMS :

Marine Pollutant : Yes

Product Type : UN 3082 ENVIRONMENTALLY HAZARDOUS MATERIAL, LIQUID N.O.S. (INCLUDES CYHALOFOP-BUTYL AND XYLENE)

IATA

UN-No. : 3082

Class : 9

Packing Group : III

Product Type : UN 3082 ENVIRONMENTALLY HAZARDOUS MATERIAL, LIQUID N.O.S. (INCLUDES CYHALOFOP-BUTYL AND XYLENE)



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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: HAZARDOUS

N: DANGEROUS FOR THE ENVIRONMENT

Hazardous Materials Listed on the Label

Includes Cyhalofop-butyl and xylene.

Risk Phrases:

Physicochemical :

R10 : Flammable

Health :

R20/21 : It is hazardous in case of inhale and contact with skin.

Environment :

R50/53 : 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.

S13: Keep away from food, drink and animal feed items.

S28: Wash with plenty of water at once in case of contact with skin.

S29: Do not empty into drains.

S36/37/39: Use appropriate protective clothes, gloves and glasses/mask

S46: Contact a doctor if swallowed, show the container or label.

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- S56: Dispose of this material and its container at hazardous or special waste collection point.
- S64: Wash the mouth with water (if the patient is conscious only.) Toxicity class U, EPA formulation II (EC).

Important Labelling:

Follow instructions to avoid personal and environmental risks.

16. OTHER INFORMATION

- N: Dangerous for the environment
Xn: Hazardous

All Risk Phrases under Section 2:

- R10 : Flammable
R20/21: It is harmful in case of inhale and contact with skin.
R38 : Irritates skin.
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.