

MATERIAL SAFETY DATA SHEET

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 27-Dec-2006
 MSDS Ref. No.:
 043051035
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1. PRODUCT AND COMPANY IDENTIFICATION

Product name: ORTHO® GroundClear® Vegetation Killer Concentrate

Description: Herbicide

Company

The Scotts Company 14111 Scottslawn Road Marysville, OH 43041

EPA Registration No.: 239-2657

Formula No.: S10891

24-HOUR EMERGENCY TELEPHONE NUMBERS:

CHEMTREC (U.S.): 1-800-424-9300 CHEMTREC (International): 1-703-527-3887 Non-Emergency Calls: 1-937-644-0011

2. HAZARDS IDENTIFICATION

Labelling

Signal word: WARNING

Precautionary Statement Causes substantial but temporary eye injury. Do not get in eyes. Wear safety glases. Wash with soap and

water after handling. Keep out of reach of children.

Potential health effects

Eye contact: Moderately irritating to the eyes.

Skin contact: Substance may cause slight skin irritation.

Ingestion:Considered practically non-toxic.Inhalation:Considered practically non-toxic.

Aggravated Medical Conditions: Inhalation may aggravate asthma.

Principle routes of exposure: Skin, Eyes, Inhalation

Target organ effects: Irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No	Weight %
Glyphosate (in the form of isopropylamine salt)	38641-94-0	5
Imazapyr, Isopropylamine Salt	81510-83-0	0.08
Inert Ingredients	PROPRIETARY	94.92

4. FIRST AID MEASURES

Eye contact: Hold eye open and rins slowly and gently with water for 15-20 minutes. Remove contact lenses, if present

after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment

advice

Skin contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a

poison control center or doctor for treatment advice

Ingestion: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if

able to swallow. Do not induce vomiting unless told to do so be a poison control center or doctor. Do not

give anything by mouth to an unconscious person

Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial

respiration, preferabley by mouth-to-mouth, if possible. Call a poison control center or doctor for further

treatment advice

5. FIRE-FIGHTING MEASURES

Flammable properties: Will not burn under fire conditions.

Suitable extinguishing media: Use dry chemical, CO2, water spray or "alcohol" foam.

Explosion potential: None.

Hazardous combustion products: Toxic fumes may be produced.

Fire fighting procedures: Select appropriate method to surround and extinguish fire.

Revision date: 29-Apr-2005 Page 1 of 4

5. FIRE-FIGHTING MEASURES

Special protective equipment for

firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or

MSDS Ref. No.:

043051035

equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear personal protective equipment Environmental precautions: Prevent product from entering drains

Methods for containment: Control spill with dykes and absorb with inert absorbant material

Methods for cleaning up: Detergent and water.

7. HANDLING AND STORAGE

Handling: Avoid container breakage. Wear goggles or face shield when handling concentrate. Keep out of lakes, streams or ponds.

Storage: Store in original container in a safe place. Protect from freezing.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components	ACGIH:	OSHA:
Glyphosate (in the form of	Not Listed	Not Listed
isopropylamine salt)		
Imazapyr, Isopropylamine Salt	Not Listed	Not Listed

Engineering controls

Use adequate ventilation to keep the airborne concentrations of this material below the recommended

exposure standard

Personal Protective Equipment

Eye/face protection: Safety glasses with side shields or goggles. Face-shield.

Skin and body protection: Wear suitable protective clothing if contact is anticipated during manufacturing. Chemical resistant gloves.

Chemical resistant apron.

Respiratory protection: If airborne levels are high or product does not remain intact, use a combination of engineering controls

(e.g. ventilation) and personal protection, e.g., NIOSH/MSHA approved respirator for dusts, mists, and

fumes.

General hygiene considerations: Wash hands before breaks and immediately after handling the product

Re-entry Interval: When dry.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:LiquidColor:AmberpH:7.5Solubility:MiscibleSpecific gravity:1.036Density:8.63 lbs/gal

Flash point: Does not flash

10. STABILITY AND REACTIVITY

Chemically Stable: Yes

Conditions to avoid: Extreme heat. Do not freeze.

Materials to avoid: Incompatible with strong bases and oxidising agents.

Hazardous decomposition products: Toxic fumes and gases may be generated. **Possibility of hazardous reactions:** Poses little or no immediate hazard.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

LD50/oral: >5.0 g/kg, rat **LD50/dermal:** >5.0 g/kg, rat

LC50/inhalation: >5.4 (vapor), rat, mg/L Eye effects: Moderate eye irritation, rabbit Skin effects: Slight irritation, rabbit

Revision date: 29-Apr-2005 Page 2 of 4

MSDS Ref. No.:

043051035

Chronic toxicity

Carcinogenic effects: The table below indicates whether each agency has listed any indgredient as a carcinogen.

Components	NTP:	IARC:	OSHA:
Glyphosate (in the form of	Not listed	Not listed	Not listed
isopropylamine salt)			
Imazapyr, Isopropylamine Salt	Not listed	Not listed	Not listed

Ingestion: Ingestion may cause irritation to mucous membranes.

Inhalation: May cause irritation of respiratory tract.

Target organ effects: Irritation.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects:

Persistence and degradability:
Bioaccumulative potential:
Mobility:

Aquatic toxicity:

No data available.
Inherently biodegradable.
Does not bioaccumulate.
Water contaminating.
No information available.

Additional ecological information: Do not contaminate water by cleaning of equipment or disposal of wastes.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Dispose of in accordance with local regulations. Do not place product down any indoor or outdoor drain.

Contaminated packaging: If empty, place in trash or offer for recycling if available.

14. TRANSPORT INFORMATION

The description shown may not apply to all situations. Consult 49 CFR, or appropriate dangerous goods regulations for additional description requirements (e.g. technical name) and mode-specific or quantity-specific shipping requirements.

DOT

Proper shipping name: Not DOT regulated

15. REGULATORY INFORMATION

Components	CAS-No	CERCLA/SARA 313	CERCLA/SARA 302
Glyphosate (in the form of isopropylamine salt)	38641-94-0	Not Listed	Not Listed
Imazapyr, Isopropylamine Salt	81510-83-0	Not Listed	Not Listed

General Information Contact local authorities for disposal of large quantities of product

16. OTHER INFORMATION

NFPA: Health: 3 Flammability: 0 Reactivity: 0

HMIS: Health: 3 Flammability: 0 Reactivity: 0

Hazard Rating: 0=Least; 1-Slight; 2=Moderate; 3=High; 4=Severe

EPA FIFRA Comment: Use of this product is regulated by the U.S. Environmental Protection Agency (EPA) through the approved product label. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

General comment: This document contains health, safety, and environmental information useful to emergency response agencies, health care providers, manufacturers, and workers/employees. It does not replace the precautionary language, use directions, or the storage and disposal information found on the product label.

Additional Information: This information contained herein is, to the best of Scott's knowledge and belief, accurate and reliable as of the date of preparation of this document. However, no warranty or guarantee, express or implied, is made as to the accuracy or reliability, and Scotts shall not be liable for any loss or damage arising out of the use thereof. No authorization is given or implied to use any patented invention without a license. In addition, Scotts shall not be liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.

Revision date: 29-Apr-2005 Page 3 of 4

MSDS Ref. No.: 043051035

Page 4 of 4 Revision date: 29-Apr-2005