



MATERIAL SAFETY DATA SHEET

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Revision Number: 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: ORTHO® GroundClear® Complete Vegetation Killer Concentrate
Description: Herbicide

Company
The Scotts Company
14111 Scottslawn Road
Marysville, OH 43041

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

EPA Registration No.: 239-2657

Formula No.: S10891

2. HAZARDS IDENTIFICATION

Labelling

Signal word: WARNING

Precautionary Statement

Causes substantial but temporary eye injury. Do not get in eyes. Wear safety glasses. 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 by 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, preferably 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.

5. FIRE-FIGHTING MEASURES

Special protective equipment for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or 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 isopropylamine salt)	Not Listed	Not Listed
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:	Liquid	Color:	Amber
pH:	7.5	Solubility:	Miscible
Specific gravity:	1.036	Density:	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

Chronic toxicity

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

Components	NTP:	IARC:	OSHA:
Glyphosate (in the form of isopropylamine salt)	Not listed	Not listed	Not listed
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: No data available.
Persistence and degradability: Inherently biodegradable.
Bioaccumulative potential: Does not bioaccumulate.
Mobility: Water contaminating.
Aquatic toxicity: 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.

