



# MATERIAL SAFETY DATA SHEET

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## 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 rinses 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, CO<sub>2</sub>, 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**

<b>Physical State:</b>	Liquid	<b>Color:</b>	Amber
<b>pH:</b>	7.5	<b>Solubility:</b>	Miscible
<b>Specific gravity:</b>	1.036	<b>Density:</b>	8.63 lbs/gal
<b>Flash point:</b>	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.

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