



# United States Material Safety Data Sheet

The Scotts Company  
14111 Scottslawn Road  
Marysville, Ohio 43041  
United States

24 h. EMERGENCY TELEPHONE NUMBER  
CHEMTREC (U.S.) 1-800-424-9300  
CHEMTREC (International) 1-703-527-3887  
Non-Emergency Calls  
1-937-644-0011

## SCOTTS TURF BUILDER WINTERGUARD FALL WEED & FEED I

### 1. Product and company identification

MSDS # : 320000004247  
EPA Registration Number: : 538-282  
Formula Number : S-16781

### 2. Hazards identification

**Physical state** : solid [Granular]  
**Color** : Gray to Tan  
**Odor** : Phenoxy  
**Signal word** : CAUTION!  
**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).  
**Emergency Overview** Causes moderate eye irritation.  
Avoid contact with skin, eyes or clothing.  
When using this product, wear long-sleeved shirt, long pants, socks, shoes, and rubber gloves.  
Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

#### Potential acute health effects

**Inhalation** : Toxic by inhalation. Exposure to decomposition products may cause a health hazard.  
**Ingestion** : No known significant effects or critical hazards.  
**Skin** : May cause sensitization by skin contact.  
**Eyes** : No known significant effects or critical hazards.  
**Target organs** : Contains material which causes damage to the following organs:  
skin  
eyes  
central nervous system (CNS)

**Potential chronic health effects** : See section 11 for more information.

#### Over-exposure signs/symptoms

**Inhalation** : No specific data.

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- Ingestion** : No specific data.  
**Skin** : Adverse symptoms may include the following:  
 irritation  
 redness  
**Eyes** : No specific data.  
**Medical conditions aggravated by over-exposure** : Pre-existing skin disorders may be aggravated by over-exposure to this product.  
 See toxicological information (Section 11)

### 3. Composition/information on ingredients

Name	CAS number	%
Urea	57-13-6	>40 - <=70
Acetic acid, 2-(2,4-dichlorophenoxy)-	94-75-7	>1 - <=3

### 4. First aid measures

- Eye contact** : Hold eye open and rinse slowly and gently with water for 15 to 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 to 20 minutes. Call a poison control center or doctor for treatment advice.
- Inhalation** : Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further 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. Never give anything by mouth to an unconscious person.

### 5. Fire-fighting measures

- Flammability of the product** : No specific fire or explosion hazard.

#### Extinguishing media

- Suitable** : Use an extinguishing agent suitable for the surrounding fire.  
**Not suitable** : None known.
- Special exposure hazards** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
 carbon dioxide  
 carbon monoxide  
 nitrogen oxides  
 halogenated compounds
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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## 6. Accidental release measures

- Personal precautions** : Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment (see Section 8).
- Environmental precautions** : Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. To protect the environment, do not allow pesticide to enter or run-off into storm drains, drainage ditches gutters or surface waters

### Methods for cleaning up

- Small spill** : Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Vacuum or sweep up material and place in container for disposal. Never place down drain.

## 7. Handling and storage

- Handling** : Avoid inhalation or contact with skin, eyes or clothing. Avoid container breakage. Do not contaminate water sources when disposing of equipment washwater or rinsate. Keep out of lakes, stream or ponds. Keep out of reach of children.
- Storage** : Store in original container in a cool, dry, well-ventilated area inaccessible to children and pets. Do not contaminate food or feedstuffs.

## 8. Exposure controls/personal protection

### Occupational exposure limits

Ingredient	Exposure limits
Urea	<b>AIHA WEEL (1999-01-01)</b> Time Weighted Average (TWA) 10 mg/m <sup>3</sup>
Acetic acid, 2-(2,4-dichlorophenoxy)-	<p><b>OSHA PEL 1989 (1989-03-01)</b> PEL: Permissible Exposure Level 10 mg/m<sup>3</sup></p> <p><b>OSHA PEL (1993-06-30)</b> PEL: Permissible Exposure Level 10 mg/m<sup>3</sup></p> <p><b>NIOSH REL (1994-06-01)</b> Time Weighted Average (TWA) 10 mg/m<sup>3</sup></p> <p><b>ACGIH TLV (1996-05-18)</b> Notes: The agent (mixture, or exposure circumstance) is not classifiable as to its carcinogenicity to humans. Refers to Appendix A -- Carcinogens. 1996 Adoption</p> <p>TLV-TWA: Threshold Limit Value - Time weighted average            PEL: Permissible Exposure Level 10 mg/m<sup>3</sup></p>

**Consult local authorities for acceptable exposure limits.**

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

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- Engineering measures** : Use adequate ventilation to keep the airborne concentrations below the recommended exposure standard.
- Hygiene measures** : Wash thoroughly with soap and water after handling. Remove and launder contaminated clothing before reuse.

### Personal protection

- Respiratory** : No special respiratory protection required. If ventilation is inadequate to keep the airborne concentrations below the recommended exposure standard wear appropriate respiration protection.
- Hands** : Protective gloves are not required, but may be used in situations where significant contact is expected.
- Eyes** : Protective eyewear is not required, but may be used in situations where contact is expected.
- Skin** : Wear long-sleeved shirt, long pants, shoes with socks. Remove and wash contaminated clothing before reuse.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9. Physical and chemical properties

- Physical state** : solid [Granular]
- Flash point** : Not Applicable
- Burning time** : Not Applicable
- Auto-ignition temperature** : Not Applicable
- Flammable limits** : Not Applicable
- Density** : 44 lb/ft<sup>3</sup>
- Color** : Gray to Tan
- Odor** : Phenoxy
- pH** : Not Applicable
- Boiling/condensation point** : Not Applicable
- Melting/freezing point** : Not Applicable
- Relative density** : Not Applicable
- Vapor pressure** : Not Applicable
- Vapor density** : Not Applicable
- Volatility** : Not Applicable
- Odor threshold** : Not Applicable
- Evaporation rate** : Not Applicable
- Viscosity** : Not Applicable
- Solubility** : Not Applicable
- Solubility in water** : Not Applicable

## 10. Stability and reactivity

- Chemical stability** : The product is stable.
- Conditions to avoid** : No specific data.
- Incompatible materials** : No specific data.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

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## 11. Toxicological information

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Product	LD50 Oral	Rat	> 5,000 mg/kg	-
Product	LC50 Inhalation	Rat	> 2.0 mg/l	4 h
Product	LD50 Dermal	Rat	> 5,000 mg/kg	-

Conclusion/Summary No known significant effects or critical hazards.

### Irritation/Corrosion

Skin	Non-irritating
Eyes	Mild.
Respiratory	May cause respiratory irritation

### Sensitizer

Conclusion/Summary	Skin	Not sensitizing
	Respiratory	Not sensitizing - based on the individual components.

### Chronic toxicity

Conclusion/Summary No known significant effects or critical hazards.

### Carcinogenicity

Conclusion/Summary No known significant effects or critical hazards.

### Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
2,4-D (ISO)	A4					

### Mutagenicity

Conclusion/Summary No known significant effects or critical hazards.

### Teratogenicity

Product/ingredient name	Result	Species	Dose	Exposure
Conclusion/Summary	No known significant effects or critical hazards.			

### Reproductive toxicity

Conclusion/Summary No known significant effects or critical hazards.

## 12. Ecological information

**Ecotoxicity** : Toxic to fish and aquatic invertebrates and may adversely affect non-target plants.

### Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
Acetic acid, 2-(2,4-dichlorophenoxy)-	Acute LC50 24.5 mg/l Fresh water	Fish - Cutthroat trout	4 d

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	Acute EC50 25.9 mg/l Fresh water	Aquatic plants - Green algae	4 d
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**Conclusion/Summary** : No known significant effects or critical hazards.

#### Persistence/degradability

**Conclusion/Summary** : No known significant effects or critical hazards.

**Partition coefficient: n-octanol/water** : No known significant effects or critical hazards.

**Other adverse effects** : No known significant effects or critical hazards.

### 13. Disposal considerations

Waste disposal Disposal should be in accordance with applicable regional, national and local laws and regulations.

### 14. Transport information

#### Regulatory

<u>information</u>	<u>UN no.</u>	<u>Proper shipping name</u>	<u>Class</u>	<u>PG*</u>	<u>Note</u>
DOT		Not Regulated			
IATA (C)		Not Regulated			
IATA (P)					
IMDG		Not Regulated			
TDG		Not Regulated			
PG* : Packing group					

### 15. Regulatory information

#### United States

**U.S. Federal regulations** :

- SARA 302/304/311/312 extremely hazardous substances:** No products were found.
- SARA 302/304 emergency planning and notification:** No products were found.
- SARA 302/304/311/312 hazardous chemicals:** No products were found.
- SARA 311/312 MSDS distribution - chemical inventory - hazard identification:** Urea: Acu, Del Sulfuric acid ammonium salt (1:2): Acu Acetic acid, 2-(2,4-dichlorophenoxy)-: Acu, Del
- Clean Water Act (CWA) 307:** The following components are listed: Copper, [29H,31H-phthalocyaninato(2-)-.kappa.N29,.kappa.N30,.kappa.N31,.kappa.N32]-, (SP-4-1)-
- Clean Water Act (CWA) 311:** The following components are listed: Acetic acid, 2-(2,4-dichlorophenoxy)-
- Clean Air Act (CAA) 112 accidental release prevention:** No products were found.
- Clean Air Act (CAA) 112 regulated flammable substances:** No products were found.
- Clean Air Act (CAA) 112 regulated toxic substances:** No products were found.

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**United States inventory (TSCA 8b)** : All components are listed or exempted.

**State regulations**

**Massachusetts** : The following components are listed: Sulfuric acid ammonium salt (1:2)  
Acetic acid, 2-(2,4-dichlorophenoxy)-

**New York** : None of the components are listed.

**New Jersey** : The following components are listed: Sulfuric acid ammonium salt (1:2)  
Acetic acid, 2-(2,4-dichlorophenoxy)-

**Pennsylvania** : The following components are listed: Sulfuric acid ammonium salt (1:2)  
Acetic acid, 2-(2,4-dichlorophenoxy)-

**California Prop. 65** : Not listed.

**International regulations**

**Canada inventory** : At least one component is not listed.

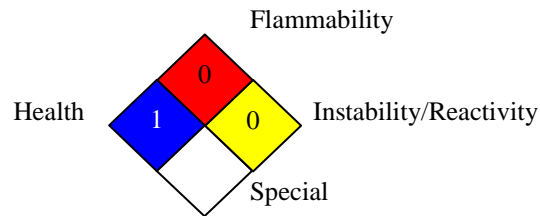
**International lists** : **Australia inventory (AICS):** At least one component is not listed.  
**Japan inventory:** At least one component is not listed.  
**China inventory (IECSC):** At least one component is not listed.  
**Korea inventory:** At least one component is not listed.  
**New Zealand Inventory of Chemicals (NZIoC):** At least one component is not listed.  
**Philippines inventory (PICCS):** At least one component is not listed.

**16.Other information**

**Hazardous Material Information System (U.S.A.) :**

<b>Health</b>	1
<b>Flammability</b>	0
<b>Physical hazards</b>	0

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**National Fire Protection Association (U.S.A.):**

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