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 WEED & FEED 3

1. Product and company identification

MSDS # : 320000007277
EPA Registration Number: : 538-282

2. Hazards identification

Physical state : solid [Granular]
Color : Gray to Tan
Odor : Phenoxy
Signal word : CAUTION!

Precautionary measures : Use only with adequate ventilation. Do not eat, drink or smoke when using this product. Avoid contact with eyes. Keep container closed. Wash thoroughly after handling.

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Emergency Overview
Keep out of reach of children.
Causes moderate eye irritation.
Avoid contact with skin, eyes or clothing.
Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.
When using this product, wear long-sleeved shirt, long pants, socks, shoes, and rubber gloves.

Potential acute health effects

Inhalation : Toxic by inhalation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Ingestion : No known significant effects or critical hazards.
Skin : No known significant effects or critical hazards.
Eyes : Severely irritating to eyes. Risk of serious damage to eyes.
Target organs : Contains material which causes damage to the following organs: kidneys, liver, skin, eyes, central nervous system (CNS)
Potential chronic health effects: See section 11 for more information.

Over-exposure signs/symptoms

Inhalation: No specific data.
Ingestion: No specific data.
Skin: No specific data.
Eyes: Adverse symptoms may include the following:
- pain or irritation
- watering
- redness

Medical conditions aggravated by over-exposure:
None known.

See toxicological information (Section 11)

3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Urea</td>
<td>57-13-6</td>
<td>&gt;40 - &lt;=70</td>
</tr>
<tr>
<td>Acetic acid, 2-(2,4-dichlorophenoxy)-</td>
<td>94-75-7</td>
<td>&gt;1 - &lt;=3</td>
</tr>
</tbody>
</table>

4. First aid measures

Eye contact:
Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin contact:
In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

Inhalation:
Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention immediately.

Ingestion:
Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Notes to physician:
In case of inhalation of decomposition products in a fire, symptoms may be delayed.

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 may include the following materials:
decomposition products:
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.

6. Accidental release measures

Personal precautions:
No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Environmental precautions:
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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:
Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. Handling and storage

Handling:
Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not get in eyes or on skin or clothing. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage:
Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection
### Ingredient Exposure limits

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Urea</td>
<td>AIHA WEEL (1999-01-01) Time Weighted Average (TWA) 10 mg/m³</td>
</tr>
<tr>
<td>Acetic acid, 2-(2,4-dichlorophenoxy)-</td>
<td>OSHA PEL 1989 (1989-03-01) PEL: Permissible Exposure Level 10 mg/m³</td>
</tr>
<tr>
<td></td>
<td>OSHA PEL (1993-06-30) PEL: Permissible Exposure Level 10 mg/m³</td>
</tr>
<tr>
<td></td>
<td>NIOSH REL (1994-06-01) Time Weighted Average (TWA) 10 mg/m³</td>
</tr>
<tr>
<td></td>
<td>ACGIH TLV (1996-05-18) Notes: The agent (mixture, or exposure circumstance) is not classifiable as to its carcinogenicity to humans. Refers to Appendix A -- Carcinogens. 1996 Adoption TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 10 mg/m³</td>
</tr>
</tbody>
</table>

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. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**Engineering measures**: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Hygiene measures**: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Personal protection**

**Respiratory**: Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Hands**: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Eyes**: Protective eyewear is not required, but may be used in situations were contact is expected.
Skin
Environmental exposure controls

- No special protective clothing is required.
- 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

<table>
<thead>
<tr>
<th>Physical state</th>
<th>solid [Granular]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash point</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Burning time</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Flammable limits</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Density</td>
<td>34 lb/ft³</td>
</tr>
<tr>
<td>Color</td>
<td>Gray to Tan</td>
</tr>
<tr>
<td>Odor</td>
<td>Phenoxo</td>
</tr>
<tr>
<td>pH</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Boiling/condensation point</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Melting/freezing point</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Volatility</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Solubility</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

10. Stability and reactivity

- The product is stable.
- No specific data.
- Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Under normal conditions of storage and use, hazardous reactions will not occur.

11. Toxicological information

| Acute toxicity
Product/ingredient name | Result       | Species | Dose       | Exposure |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Product</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>&gt; 5,000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Product</td>
<td>LC50 Inhalation</td>
<td>Rat</td>
<td>&gt; 2.13 mg/l</td>
<td>4 h</td>
</tr>
<tr>
<td></td>
<td>LC50 Inhalation</td>
<td>Rat</td>
<td>&gt; 2.13 mg/l</td>
<td>4 h</td>
</tr>
<tr>
<td>Product</td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>&gt; 5,000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>&gt; 5,000 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

- No known significant effects or critical hazards.
Irritation/Corrosion
Skin Non-irritating
Eyes Mildly irritating
Respiratory No results available.

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

Aquatic ecotoxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetic acid, 2-(2,4-dichlorophenoxy)-</td>
<td>Acute LC50 24.5 mg/l Fresh water</td>
<td>Fish - Cutthroat trout</td>
<td>4 d</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 25.9 mg/l Fresh water</td>
<td>Aquatic plants - Green algae</td>
<td>4 d</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Regulatory information</th>
<th>UN no.</th>
<th>Proper shipping name</th>
<th>Class</th>
<th>PG*</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td></td>
<td>Not Regulated</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IATA (C)</td>
<td></td>
<td>Not Regulated</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IATA (P)</td>
<td></td>
<td>Not Regulated</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IMDG</td>
<td></td>
<td>Not Regulated</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TDG</td>
<td></td>
<td>Not Regulated</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PG* : Packing group</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

15. Regulatory information

United States

U.S. Federal regulations : United States - TSCA 12(b) - Chemical export notification: None of the components are listed.
United States - TSCA 8(a) - Inventory update rule (IUR): Not determined
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
United States - EPA Clean water act (CWA) section 311 - Hazardous substances: Listed Acetic acid, 2-(2,4-dichlorophenoxy)-

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 available.

International regulations

Canada inventory : At least one component is not listed.

International lists :

- Australia inventory (AICS): At least one component is not listed.
- Canada inventory (CSNN): Not determined.
- Japan inventory: 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.
- Malaysia Inventory (EHS Register): Not determined.
- China inventory (IECSC): At least one component is not listed.

16. Other information

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

Flammability

Health 2 0 Instability/Reactivity

Special

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Date of printing : Print date
Date of issue : Validity date***

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