



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

SUPER TURF BUILDER WITH HALTS CRABGRASS PREVENTER 36-0-4

1. Product and company identification

MSDS # : 320000000615
EPA Registration Number: : 538-190

2. Hazards identification

Physical state : solid [granular solid]
Color : Light yellow
Odor : Characteristic.
Signal word : CAUTION!
OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Emergency Overview Harmful if absorbed through the skin.
Causes moderate eye irritation.
Avoid contact with skin, eyes or clothing.

Potential acute health effects

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 : No known significant effects or critical hazards.
Target organs : Contains material which causes damage to the following organs:
skin
eyes

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 : No specific data.
Medical conditions aggravated by over-exposure : Pre-existing skin disorders may be aggravated by over-exposure to this product.

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See toxicological information (Section 11)

3. Composition/information on ingredients

Name	CAS number	%
Urea	57-13-6	>40 - <=70
N-(1-ethylpropyl)-2,6-dinitro-3,4-xylidine	40487-42-1	>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

- 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** : 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** : To protect the environment, do not allow pesticide to enter or run-off into storm drains, drainage ditches gutters or surface waters

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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	AIHA WEEL (1999-01-01) Time Weighted Average (TWA) 10 mg/m3

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.
- 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 were significant contact is expected.
- Eyes** : Protective eyewear is not required, but may be used in situations were 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.

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9. Physical and chemical properties

Physical state	: solid [granular solid]
Flash point	: Not Applicable
Burning time	: Not Applicable
Auto-ignition temperature	: Not Applicable
Flammable limits	: Not Applicable
Density	: 44 lb/ft3
Color	: Light yellow
Odor	: Characteristic.
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.

11. Toxicological information

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Product	LD50 Oral	Rat	> 5,000 mg/kg	-
Product	LD50 Dermal	Rabbit	> 2,000 mg/kg	-

Conclusion/Summary Very low toxicity to humans or animals.

Irritation/Corrosion

Skin	Slight
Eyes	Mild.
Respiratory	Not available.

Sensitizer

Conclusion/Summary	Skin	Not sensitizing
	Respiratory	Not sensitizing

Chronic toxicity

Conclusion/Summary No known significant effects or critical hazards.

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Carcinogenicity

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

Mutagenicity

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

Teratogenicity

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

Reproductive toxicity

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

12. Ecological information

Ecotoxicity : This pesticide may be toxic to fish.

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
N-(1-ethylpropyl)-2,6-dinitro-3,4-xylidine			
	Acute LC50 0.138 mg/l Fresh water	Fish - Rainbow trout, donaldson trout	4 d
	Acute EC50 0.368 mg/l Fresh water	Aquatic plants - Green algae	3 d

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					

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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 N-(1-ethylpropyl)-2,6-dinitro-3,4-xylidine: 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:** No products were found.
- 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.

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)

New York : None of the components are listed.

New Jersey : The following components are listed: Sulfuric acid ammonium salt (1:2) N-(1-ethylpropyl)-2,6-dinitro-3,4-xylidine

Pennsylvania : The following components are listed: Sulfuric acid ammonium salt (1:2)

California Prop. 65 : Not listed.

International regulations

Canada inventory : At least one component is not listed.

International lists :

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

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16. Other information

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

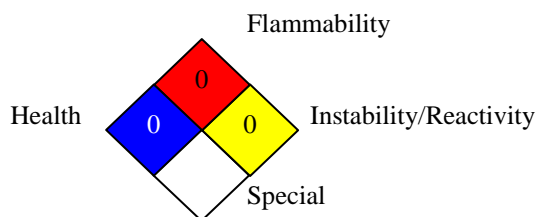
Health	1
Flammability	0
Physical hazards	0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA).

HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

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



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