

MATERIAL SAFETY DATA SHEET

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

MSDS Ref. No.: 99400

Revision Number: 0

1. PRODUCT AND COMPANY IDENTIFICATION

 Product name:
 Scotts® Osmocote® Fusion NT 19-6-9, 5-6 Month

 Description:
 Controlled Release Fertilizer

Company

The Scotts Company LLC 14111 Scottslawn Road Marysville, OH 43041

Formula No.: S14024 Product Number(s): 99400

2. HAZARDS IDENTIFICATION

Labelling

Signal word: <u>Precautionary Statements</u> <u>Potential health effects</u> Eye contact: Skin contact: Ingestion: Inhalation: CAUTION Do not ingest. Do not inhale. Keep out of reach of children and domestic animals. Contact with eyes may cause irritation. Irritation not expected. Considered practically non-toxic. Possible gastrointestinal tract irritation. May cause irritation of respiratory tract.

Aggravated Medical Conditions: Principle routes of exposure: Target organ effects: Inhalation may aggravate asthma. Skin, Eyes, Inhalation Irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No	Weight %
Ammonium nitrate, NH4NO3	6484-52-2	15-40
Potassium sulphate, K2SO4	7778-80-5	10-30
Ammonium phosphate	7722-76-1	7-13
Potassium nitrate, KNO3	7757-79-1	7-13
Ammonium sulphate, (NH4)2SO4	7783-20-2	3-7
Calciumphosphate, Ca3(PO4)2	7758-87-4	3-7
Magnesium sulphate, MgSO4	7487-88-9	1-5
Calcium carbonate, CaCO3	471-34-1	1-5
Magnesium oxide, MgO	1309-48-4	0.5-1.5
Iron EDTA	15708-41-5	1-5
Potassium chloride, KCI	7447-40-7	0.5-1.5
Iron sulphate, FeSO4+7H2O	7782-63-0	0.1-1
Manganese sulphate, MnSO4	7785-87-7	0.1-1
Boric acid, H3BO3	10043-35-3	0.1-1
Sodium molybdate, Na2MoO4+2H2O	7631-95-0	<0.1
Zinc Sulfate Anhydrous	7733-02-0	<0.1
Copper sulphate, CuSO4	7758-98-7	<0.1
Zinc oxide	1314-13-2	<0.1

4. FIRST AID MEASURES

Eye contact:

Hold eye open and rinse 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 be 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, preferabley by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice

5. FIRE-FIGHTING MEASURES

Flammable properties:
Suitable extinguishing media:
Explosion potential:
Explosive properties:
Hazardous combustion products:
Fire fighting procedures:
Special protective equipment for
firefighters:

Decomposes on heating. Water spray, carbon dioxide, dry chemical, chemical foam Dust clouds may be explosive. No information available. Combustion can produce toxic fumes and irritating gases. Select appropriate method to surround and extinguish fire In the event of fire, wear self-contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Wear personal protective equipment
Environmental precautions:	Prevent product from entering drains
Methods for containment:	Use good housekeeping practices. Clean up promptly by sweeping or vacuum.
Methods for cleaning up:	If material is uncontaminated, collect and reuse as recommended for product.

7. HANDLING AND STORAGE

Handling: Avoid container breakage

Storage: Keep containers tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components	ACGIH:	OSHA:
Zinc oxide	2 mg/m ³ TWA	15 mg/m ³ TWA total
	Ũ	5 mg/m ³ TWA
Copper sulphate, CuSO4	Not Listed	Not Listed
Ammonium nitrate, NH4NO3	Not Listed	Not Listed
Ammonium sulphate, (NH4)2SO4	Not Listed	Not Listed
Calciumphosphate, Ca3(PO4)2	Not Listed	Not Listed
Potassium nitrate, KNO3	Not Listed	Not Listed
Potassium chloride, KCl	Not Listed	Not Listed
Magnesium oxide, MgO	10 mg/m³ TWA	15 mg/m ³ TWA total
Magnesium sulphate, MgSO4	Not Listed	Not Listed
Calcium carbonate, CaCO3	Not Listed	15 mg/m ³ TWA total
		5 mg/m³ TWA
ron sulphate, FeSO4+7H2O	1 mg/m³ TWA	Not Listed
ron EDTA	1 mg/m ³ TWA	Not Listed
Manganese sulphate, MnSO4	0.2 mg/m ³ TWA	Not Listed
Zinc Sulfate Anhydrous	Not Listed	Not Listed
Boric acid, H3BO3	2 mg/m³ TWA	Not Listed
Sodium molybdate, Na2MoO4+2H2O	0.5 mg/m ³ TWA	5 mg/m³ TWA
Ammonium phosphate	Not Listed	Not Listed
Potassium sulphate, K2SO4	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

Skin and body protection:

Eye/face protection is not required, but is recommended in manufacturing situations where contact may occur. Wear suitable protective clothing if contact is anticipated during manufacturing. impervious gloves.

Revision date:

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid	Color:	Tan, Brown
Bulk density:	65-70 lbs/cu.ft.	Flash point:	Not applicable
Appearance:	Granular	Odor:	Fertilizer

10. STABILITY AND REACTIVITY

Chemically Stable:	Yes
Conditions to avoid:	Damp or wet conditions. Extreme heat.
Materials to avoid:	Oxidizing agent.
Hazardous decomposition products:	Toxic fumes and gases may be generated. Metal oxides possible.
Possibility of hazardous reactions:	Poses little or no immediate hazard.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Eye effects: Contact with eyes may cause irritation **Skin effects:** May cause skin irritation and/or dermatitis

Chronic toxicity

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

Components	NTP:	IARC:	OSHA:
Zinc oxide	Not listed	Not listed	Not listed
Copper sulphate, CuSO4	Not listed	Not listed	Not listed
Ammonium nitrate, NH4NO3	Not listed	Not listed	Not listed
Ammonium sulphate, (NH4)2SO4	Not listed	Not listed	Not listed
Calciumphosphate, Ca3(PO4)2	Not listed	Not listed	Not listed
Potassium nitrate, KNO3	Not listed	Not listed	Not listed
Potassium chloride, KCI	Not listed	Not listed	Not listed
Magnesium oxide, MgO	Not listed	Not listed	Not listed
Magnesium sulphate, MgSO4	Not listed	Not listed	Not listed
Calcium carbonate, CaCO3	Not listed	Not listed	Not listed
Iron sulphate, FeSO4+7H2O	Not listed	Not listed	Not listed
Iron EDTA	Not listed	Not listed	Not listed
Manganese sulphate, MnSO4	Not listed	Not listed	Not listed
Zinc Sulfate Anhydrous	Not listed	Not listed	Not listed
Boric acid, H3BO3	Not listed	Not listed	Not listed
Sodium molybdate, Na2MoO4+2H2O	Not listed	Not listed	Not listed
Ammonium phosphate	Not listed	Not listed	Not listed
Potassium sulphate, K2SO4	Not listed	Not listed	Not listed

General Information	Very low toxicity for humans and animals
Ingestion:	Health injuries are not known or expected under normal use
Inhalation:	Health injuries are not known or expected under normal use
Target organ effects:	Irritation.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects: Persistence and degradability: Bioaccumulative potential: Mobility: Aquatic toxicity: No data is available on the product itself. Inherently biodegradable. Non-persistent. Does not bioaccumulate. Water contaminating. May be beneficial to plant life.

12. ECOLOGICAL INFORMATI	ON
Additional ecological information:	Do not apply directly to lakes, streams, or ponds. Contains Molybdenum (Mo). The application of materials containing Molybdenum (Mo) may result in forage crops containing levels of Molybdenum (Mo) which are toxic to ruminant animals.
13. DISPOSAL CONSIDERATION	DNS
Waste Disposal Methods: Contaminated packaging:	Apply as fertilizer to field. Dispose of in accordance with local regulations and national regulations. Do not re-use empty containers. 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 (Land)	Not DOT regulated
DOT (AIR)	UN2071, Ammonium Nitrate Based Fertilizer, 9, PGIII
DOT (Vessel)	UN2071, Ammonium Nitrate Based Fertilizer, 9, PGIII

15. REGULATORY INFORMATION

Components	CAS-No	CERCLA/SARA 313	CERCLA/SARA 302
Zinc oxide	1314-13-2	Not Listed	Not Listed
Copper sulphate, CuSO4	7758-98-7	10 lb final RQ	Not Listed
		4.54 kg final RQ	
Ammonium nitrate, NH4NO3	6484-52-2	Not Listed	Not Listed
Ammonium sulphate, (NH4)2SO4	7783-20-2	Not Listed	Not Listed
Calciumphosphate, Ca3(PO4)2	7758-87-4	Not Listed	Not Listed
Potassium nitrate, KNO3	7757-79-1	Not Listed	Not Listed
Potassium chloride, KCl	7447-40-7	Not Listed	Not Listed
Magnesium oxide, MgO	1309-48-4	Not Listed	Not Listed
Magnesium sulphate, MgSO4	7487-88-9	Not Listed	Not Listed
Calcium carbonate, CaCO3	471-34-1	Not Listed	Not Listed
ron sulphate, FeSO4+7H2O	7782-63-0	1000 lb final RQ	Not Listed
		454 kg final RQ	
ron EDTA	15708-41-5	Not Listed	Not Listed
Manganese sulphate, MnSO4	7785-87-7	Not Listed	Not Listed
Zinc Sulfate Anhydrous	7733-02-0	1000 lb final RQ	Not Listed
-		454 kg final RQ	
Boric acid, H3BO3	10043-35-3	Not Listed	Not Listed
Sodium molybdate, Na2MoO4+2H2O	7631-95-0	Not Listed	Not Listed
Ammonium phosphate	7722-76-1	Not Listed	Not Listed
Potassium sulphate, K2SO4	7778-80-5	Not Listed	Not Listed

General Information

Contact local authorities for disposal of large quantities of product

16. OTHER INFORMATION NFPA: Health: 2 Flammability: 0 Reactivity: 1 HMIS: Health: 2 Flammability: 0 Reactivity: 1

Hazard Rating: 0=Least; 1-Slight; 2=Moderate; 3=High; 4=Severe

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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