



MATERIAL SAFETY DATA SHEET

Date stamp: 10-Apr-2013

MSDS Ref. No.: E90280

Revision Number: 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Topdress Special 12-6-8
Description: Controlled Release Fertilizer

Company
Everris NA Inc.
P.O. Box 3310
Dublin, OH 43016
Formula No.: S15888
Product Number(s): E90280

24-HOUR EMERGENCY TELEPHONE NUMBERS:
CHEMTREC (U.S.): 1-800-424-9300
CHEMTREC (International): 1-703-527-3887
Non-Emergency Calls: 1-800-492-8255

2. Hazards Identification

Labelling

Signal Word: CAUTION

precautionary statements

Do not ingest. Do not inhale. Keep out of reach of children.

Potential Health Effects

Eye contact: Contact with eyes may cause irritation.

Skin contact: Irritation not expected.

Ingestion: Considered practically non-toxic. Possible gastrointestinal tract irritation.

INHALATION: May cause irritation of respiratory tract.

Aggravated Medical Conditions:

Inhalation may aggravate asthma.

Principle routes of exposure:

skin, inhalation

3. Composition/information on Ingredients

Ingredients	CAS-No	Weight %
Urea (Reach 01-2119463277-33)	57-13-6	15-30
Potassium sulphate, K ₂ SO ₄	7778-80-5	15-30
Ferrous Sulfate Monohydrate (Iron Sulfate)	17375-41-6	15-30
Sulphur, S	7704-34-9	1 - 5
Ammonium phosphate	7722-76-1	1 - 5
Iron Oxide, Fe ₂ O ₃	1309-37-1	0.1 - 1
Magnesium sulphate heptahydrate, MgSO ₄ +7H ₂ O	10034-99-8	0.1 - 1
Magnesium oxide, MgO	1309-48-4	0.1 - 1
Manganese sulphate, MnSO ₄	7785-87-7	0.1 - 1
Zinc Sulfate Anhydrous	7733-02-0	0.1 - 1
Manganese Oxide, MnO	1344-43-0	0.1 - 1
Zinc oxide, ZnO	1314-13-2	0.1 - 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 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: Decomposes on heating.
Suitable extinguishing media: Water spray, carbon dioxide, dry chemical, chemical foam.
Explosion potential: Dust clouds may be explosive.
Hazardous combustion products: Combustion can produce toxic fumes and irritating gases.
Fire fighting procedures: Select appropriate method to surround and extinguish fire.
Special protective equipment for firefighters: 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

Ingredients	CAS-No	ACGIH:	OSHA:
Urea (Reach 01-2119463277-33)	57-13-6	Not Listed	Not Listed
Potassium sulphate, K2SO4	7778-80-5	Not Listed	Not Listed
Ferrous Sulfate Monohydrate (Iron Sulfate)	17375-41-6	1 mg/m ³ TWA	Not Listed
Sulphur, S	7704-34-9	Not Listed	Not Listed
Ammonium phosphate	7722-76-1	Not Listed	Not Listed
Iron Oxide, Fe2O3	1309-37-1	5 mg/m ³ TWA	10 mg/m ³ TWA
Magnesium sulphate heptahydrate, MgSO4+7H2O	10034-99-8	Not Listed	Not Listed
Magnesium oxide, MgO	1309-48-4	10 mg/m ³ TWA	15 mg/m ³ TWA total
Manganese sulphate, MnSO4	7785-87-7	0.2 mg/m ³ TWA	Not Listed
Zinc Sulfate Anhydrous	7733-02-0	Not Listed	Not Listed
Manganese Oxide, MnO	1344-43-0	0.2 mg/m ³ TWA	Not Listed
Zinc oxide, ZnO	1314-13-2	2 mg/m ³ TWA	15 mg/m ³ TWA total 5 mg/m ³ TWA

Engineering Controls Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard.

Personal protective equipment
Eye/face Protection

Eye/face protection is not required, but is recommended in manufacturing situations where contact may occur.

Skin and body protection: Wear suitable protective clothing if contact is anticipated during manufacturing. impervious gloves.

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:** Multi-colored

Bulk density: 55-65 lbs/cu.ft.
Appearance: granular
Flash Point: not applicable
Odor: Fertilizer

10. Stability and Reactivity

Chemically Stable: yes.
Conditions to Avoid Damp or wet conditions. Take precautionary measures against static discharges. 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 ingredient as a carcinogen.

Ingredients	NTP:	IARC:	OSHA:
Iron Oxide, Fe2O3	Not Listed	3	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.

12. Ecological Information

Ecotoxicity effects: No data is available on the product itself.
Persistence and degradability: Inherently biodegradable. Non-persistent.
Bioaccumulative potential: Does not bioaccumulate.
Mobility: Water contaminating.
Aquatic toxicity: May be beneficial to plant life.
Additional ecological information: Do not apply directly to lakes, streams, or ponds.

13. Disposal Considerations

Waste Disposal Methods: Apply as fertilizer to field. Dispose of in accordance with local regulations and national regulations.
Contaminated packaging: 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

15. Regulatory information

Ingredients	CAS-No	CERCLA/SARA 313	CERCLA/SARA 302
Ferrous Sulfate Monohydrate (Iron Sulfate)	17375-41-6	1000 lb final RQ 454 kg final RQ	Not Listed
Zinc Sulfate Anhydrous	7733-02-0	1000 lb final RQ 454 kg final RQ	Not Listed

General information Contact local authorities for disposal of large quantities of product.

16. Other information

NFPA: Health: 1 Flammability: 0 Reactivity: 0

HMIS: **Health:** 1 **Flammability:** 0 **Reactivity:** 0

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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