



# Material Safety Data Sheet

## 16-4-8 Turf Rally™

### SECTION 1

#### COMPANY IDENTIFICATION

Manufactured for Turfgrass Management, Inc. D.B.A.,  
Grigg Brothers, PO BOX 128, Albion, Idaho, 83311  
08:00–17:00 MST, Mon–Fri: **1.800.246.8873**  
EMERGENCY NUMBER: After hours, holiday's, and all  
other non business hours call:  
Poison Control 800.222.1222, Chemtrec 800.424.9300

#### PRODUCT IDENTIFICATION

GRIGG BROTHERS ID: # **1200**  
COMMON NAME: 16-4-8 Turf Rally™  
CHEMICAL DESCRIPTION: Organic / Inorganic fertilizer  
combination.  
CHEMICAL ACTIVITY: N 16%, P 4%, K 8%, Ca 8%, S 8%,  
Fe 3%, Mn 0.2%, Zn 0.2%

### SECTION 2

#### COMPOSITION:

This is a homogeneous granular product  
containing:

#### INGREDIENTS / CAS NUMBER:

Ammonium Phosphate #7722-76-1  
Urea #5113-6  
Sulfate of Potash #7778-80-5  
Ferrous Sulfate #7720-78-7  
Iron Sucrate -- Unk  
Manganese Sucrate -- Unk  
Zinc Sucrate -- Unk  
Blood Meal -- Unk  
Bone Meal -- Unk  
Kelp -- Unk  
Calcium Sulfate --Unk

### SECTION 3

#### HAZARDS IDENTIFICATION:

**Ingestion:** Minimal hazard under normal  
conditions and use. Ingestion of large quantities  
may cause gastrointestinal discomfort, vomiting,  
weakness or other medically related problems.

**Inhalation:** Dusty conditions may cause  
mechanical aggravation to respiratory mucous  
membranes.

**Eye Contact:** Dust from this product may cause  
particulate discomfort to eyes.

**Skin Absorption:** Not normally absorbed through  
the skin.

**Effects of Overdose:** Ingestion of large doses  
may cause diarrhea, nausea, abdominal cramps or  
formation of methemoglobinemia. Seek medical  
attention.

### SECTION 4

#### FIRST AID MEASURES:

**Ingestion:** If large amount is ingested, give 2-3  
glasses of water and induce vomiting. Seek  
medical attention.

**Inhalation:** Dusty conditions may cause  
mechanical aggravation to respiratory mucous  
membranes.

**Eyes:** Flush eyes with running water for at least 15  
minutes. Seek medical attention if condition  
persists.

**Skin:** Wash with soap and water. Seek medical  
attention if condition persists.

**Notes to Physician:** Consult standard literature.  
Treatment based on the sound judgment of the  
physician and the individual reactions of the  
patient.

### SECTION 5

#### FIRE FIGHTING MEASURES:

**Extinguishing Media:** Use media suitable to  
extinguish source of fire.

**Special Fire Fighting Procedures:** Product is not  
combustible.

**Unusual Fire and Explosion Hazards:** No  
unusual hazards

### SECTION 6

#### ACCIDENTAL RELEASE MEASURES:

**Environmental Precautions:** Keep out of water  
supplies, lakes, ponds, streams and rivers. This  
product is a fertilizer and may promote algae  
growth.

**Steps to be taken in case material is released  
or spilled:** Keep from entering waterways. Sweep  
up material and place in suitable container for use  
as a fertilizer or for disposal.

### SECTION 7

#### HANDLING AND STORAGE:

**Precautions to be taken in handling and  
storage:** Store in a cool, dry area. Prevent  
spillage and separate from strong oxidizers. Use  
normal safety procedures and good personal  
hygiene. Keep out of the reach of children.

### SECTION 8

#### EXPOSURE CONTROLS / PERSONAL PROTECTION:

**Ventilation Protection:** Adequate ventilation.

**Respiratory Protection:** Approved dust respirator  
when necessary.

**Protective Clothing:** Normal clean work clothing.

**Eye Protection:** In dusty conditions, safety  
glasses with side shields or goggles may be  
necessary.

### SECTION 9

#### PHYSICAL AND CHEMICAL PROPERTIES:

**Boiling Point:** Not applicable

**Solubility in Water:** Slowly soluble in soil and  
water.

**% Volatiles (by volume):** Not applicable.

**Flashpoint:** 400°F

**Vapor Pressure, mm Hg:** Not applicable.

**pH:** Not listed.

**Reaction with water:** None

**Appearance:** Solid, brown granules.

**Odor:** Fertilizer salt.

**Extinguishing Media:** Water, foam or CO<sub>2</sub>.

### SECTION 10

### STABILITY AND REACTIVITY:

**Stability (Normal Conditions):** Stable.

**Conditions to Avoid:** Extremely high  
temperatures.

**Incompatibility (Material to Avoid):** Prolonged  
contact may cause oxidation of unprotected  
metals.

**Hazardous Decomposition Products:** During  
extremely high temperature fire conditions, the  
product may reach melting point and decompose  
to release NH<sub>3</sub>, SO<sub>x</sub>, PO<sub>x</sub>, or CN.

**Hazardous Polymerization:** Will not occur.

**Conditions to Avoid:** Not applicable.

### SECTION 11

#### TOXICOLOGY INFORMATION:

**Ingestion:** Acute Oral Toxicity LD<sub>50</sub>: 511 mg/kg for  
Urea; 2200 mg/kg for Iron Sulfate.

### SECTION 12

#### ECOLOGICAL INFORMATION:

None listed.

### SECTION 13

#### DISPOSAL CONSIDERATIONS:

Dispose of in accordance with local, state and  
federal regulations.

### SECTION 14

#### TRANSPORT INFORMATION:1

**Shipping name:** Not regulated by D.O.T.

**Hazard Class:** None

**C.A.S. Number:** See Section 2 of this document

**Reportable Quantity (RQ):** None

**D.O.T. Number:** None

**Labels Required:** None

**Haz Waste No:** None

**Placard:** None

**EPA Regist No:** None

### SECTION 15

#### REGULATORY INFORMATION:

**Carcinogenicity:**

By IARC?: **No**

By NTP?: **No**

This product contains Manganese and Zinc, which  
are subject to reporting requirements of Section  
313 of Title III of the Superfund and  
Reauthorization Act of 1986 and 40 Part 372.