



# Material Safety Data Sheet

## Tuff Turf™ 1-0-14 +Ca +Si +micros

### 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  
 1.800.222.1222

#### PRODUCT IDENTIFICATION

GRIGG BROTHERS ID#: **315**  
 COMMON NAME: Tuff Turf™  
 CHEMICAL DESCRIPTION: Nitrogen, Potassium and  
 compounds listed below  
 CHEMICAL ACTIVITY: N 1%, K 14%, Ca 1.4% Fe 0.5%,  
 Mg 1%, Mn 0.5%, Si .05%

### SECTION 2

#### HAZARDOUS INGREDIENTS/ IDENTITY INFORMATION

INGREDIENTS / HAZARDOUS  
 COMPONENTS: (Specific Chemical Identity;  
 OSHA PEL ACGIH TLV C.A.S. NO. SARA  
 Common Name) (Mg/M3) (Mg/M3) %  
 Potassium Nitrate # **7757791**  
 Potassium Glucoheptonate #

### SECTION 3

#### PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: > **H<sub>2</sub>O**  
 SPECIFIC GRAVITY: (H<sub>2</sub>O=1) **1.34**  
 VAPOR PRESSURE: (MM HG) **N/A**  
 VAPOR DENSITY: (AIR=1) **N/A**  
 MELTING POINT: **N/A**  
 EVAPORATION RATE: < **H<sub>2</sub>O**  
 pH: **3.8**  
 (BUTYL ACETATE=1) **N/A**  
 APPEARANCE AND ODOR:  
**Brown, slight odor**

### SECTION 4

#### FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD): FLAMMABLE  
 LIMITS: LEL N/A UEL **N/A**  
 EXTINGUISHING MEDIA: **Water**  
 SPECIAL FIREFIGHTING PROCEDURES:  
**N/A**  
 UNUSUAL FIRE & EXPLOSION HAZARDS:  
**N/A**

### SECTION 5

#### REACTIVITY DATA

STABILITY: **Stable**  
 CONDITIONS TO AVOID: **N/A**  
 INCOMPATIBILITY (MATERIALS TO  
 AVOID): **N/A**  
 HAZARD DECOMPOSITION OR BY-  
 PRODUCTS: **N/A**  
 HAZARD POLYMERIZATION: **May Not  
 Occur**  
 CONDITIONS TO AVOID: **N/A**

### SECTION 6

#### HEALTH HAZARD DATA

PRODUCT: Tuff Turf™  
 TOXICITY: None Found  
 ROUTES (S) OF ENTRY: [Skin] [Ingestion]  
 CARCINOGENICITY: NTP: No  
 IARC Monographs: No  
 OSHA Regulated: No  
 HEALTH HAZARDS (ACUTE & CHRONIC) /  
 SIGNS & SYMPTOMS OF EXPOSURE:  
 This product may cause eye and skin  
 irritation (See Emergency and First Aid  
 Procedures).  
 EMERGENCY AND FIRST AID  
 PROCEDURES:  
**Eyes:** Immediately flush eyes with plenty of  
 water for at least 15 minutes. Call a  
 Physician.  
**Skin:** Wash contaminated areas with plenty  
 of water for 15 minutes. Remove  
 contaminated clothing and footwear and  
 wash clothing before reuse. If skin irritation  
 continues consult a physician.  
**Ingestion:** Do not give anything by mouth to  
 an unconscious person. If swallowed do not  
 induce vomiting, give one or two glasses of  
 milk or water. Contact physician  
 immediately.

### SECTION 7

#### PRECAUTION FOR SAFE HANDLING AND USE

FOR SAFE HANDLING AND USE  
 STEPS TO BE TAKEN IN CASE MATERIAL  
 IS RELEASED OR SPILLED: Absorb liquid  
 spills with a dry absorbent, containerize  
 usable material for disposal in an approved  
 waste facility.  
 WASTE DISPOSAL METHOD: Dispose in  
 closed containers, at an approved landfill, in  
 accordance with local, state and federal  
 regulations. Material may also be flushed  
 with water to a wastewater treatment  
 system.  
 PRECAUTIONS TO BE TAKEN IN  
 HANDLING AND STORING: Store in  
 enclosed containers.  
 OTHER PRECAUTIONS: Avoid ingestion,  
 contact with eyes, skin and clothing.

### SECTION 8

#### CONTROL MEASURES

RESPIRATORY PROTECTION:  
 NIOSH/MSHA approved for mists. Use with  
 adequate ventilation and employ respiratory  
 protection when exposure to mist and spray  
 is possible.  
 VENTILATION: N/A (Have adequate  
 ventilation)  
 PROTECTIVE GLOVES: Impervious gloves.  
 EYE PROTECTION: Side shield safety  
 glasses or goggles.  
 OTHER PROTECTIVE CLOTHING AND  
 EQUIPMENT: Protective clothing to  
 minimize skin contact should be worn. Wear  
 chemically resistant safety shoes. Wash  
 contaminated clothing with soap and water  
 and dry before reuse. Safety showers and  
 eye wash facilities should be provided in all  
 areas in which this product is handled.  
 WORK/HYGIENIC PRACTICES: Good  
 housekeeping procedures should be  
 followed to minimize exposure.