



# 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, holidays, 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 .5%, 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/M<sup>3</sup>) (Mg/M<sup>3</sup>) %  
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) **1.31**  
VAPOR PRESSURE: (MM HG) **N/A**  
VAPOR DENSITY: (AIR=1) **N/A**  
MELTING POINT: **N/A**  
EVAPORATION RATE: < H<sub>2</sub>O  
pH: **4.3**  
(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.