

# MATERIAL SAFETY DATA SHEET

## Brilliance - Harrell's

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### Product Identification

Product Name: Brilliance - Harrell's

Chemical Name: Non-ionic surfactant blend

Chemical Family: Polyoxyalkylene polymer

CAS Number: Blend

#### Company Identification

Milliken Chemical

P.O. Box 817

1440 Campton Road

Inman, SC 29349 USA

1-864-472-9041 (For questions and emergencies)

1-800-424-9300 or 1-703-527-3887 (CHEMTREC)

#### **PRODUCT USE:**

Liquid for fine cut turf to reduce heat stress.

### 2. HAZARDS IDENTIFICATION

#### **EMERGENCY OVERVIEW:**

The health hazards of this product should be low under normal industrial and commercial uses. May cause eye irritation. Avoid eye contact. Where contact with this material is likely, chemical goggles are recommended.

#### **HFRP Rating:**

Health - 1

Flammability - 1

Reactivity - 0

Personal Protection Index - B

#### **EYE:**

May cause eye irritation. Discomfort and blurring of vision may occur. Not known to cause permanent injury to eye tissue.

#### **SKIN:**

Prolonged or repeated skin contact may cause irritation.

#### **INHALATION:**

No known hazards in normal industrial use.

#### **INGESTION:**

No information regarding ingestion available.

#### **MISCELLANEOUS:**

Solutions extremely slippery when spilled.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS



**COMPONENT LISTING:**

Chemical Name	Amount	CAS Number
BRILLIANCE	100.0 %	Proprietary

**4. FIRST AID MEASURES**

**EYE CONTACT FIRST AID:**

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.

**SKIN CONTACT FIRST AID:**

Wash affected area with large amounts of soap and water. Wash contaminated clothing before reuse. Get medical attention if irritation develops or persists.

**INHALATION FIRST AID:**

Although this product is not known to cause respiratory problems, if breathing is difficult, remove to fresh air and provide oxygen. Avoid circumstances that produce respirable particles. Get medical attention if cough or other symptoms develop.

**INGESTION FIRST AID:**

Ingestion is not considered a potential route of exposure. If swallowed, immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Contact a physician.

**5. FIRE FIGHTING MEASURES**

**FLAMMABLE PROPERTIES**

COC Flash Point: 235 C (455.0 F)  
Autoignition Temperature: N/A

**FLAMMABLE LIMITS IN AIR**

LEL: N/A  
UEL: N/A

**EXTINGUISHING MEDIA:**

Water, carbon dioxide, foam or dry powder.

**FIRE & EXPLOSION HAZARDS:**

No known unusual hazards in a fire/explosion situation.

**FIRE FIGHTING INSTRUCTIONS:**

Evacuate non-emergency personnel to a safe area. As in any fire, wear self-contained breathing apparatus pressure-demand MSHA/NIOSH (approved or equivalent) and full protective gear. Avoid breathing smoke, fumes, and decomposition products.

**6. ACCIDENTAL RELEASE MEASURES**

**SAFEGUARDS (PERSONNEL):**

Wear appropriate personal protective equipment.

**SPILL PROCEDURE:**

Absorb spills with inert material. Clean residual material by washing area with water. Collect washings for disposal.

**INITIAL CONTAINMENT:**

Contain spilled material. Floor may become slippery.

**7. HANDLING AND STORAGE**



**RECOMMENDED STORAGE TEMPERATURE**

Minimum: 4 C (39.2 F)  
Maximum: 50 C (122.0 F)

**HANDLING (PERSONNEL):**

Avoid prolonged contact with skin or eyes. Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

**HANDLING (PHYSICAL ASPECTS):**

Keep container closed to avoid contamination.

**STORAGE PRECAUTIONS:**

Store in a well ventilated place.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**EYE / FACE PROTECTION REQUIREMENTS:**

Wear safety glasses. Where contact with this material is likely, chemical goggles are recommended.

**SKIN PROTECTION REQUIREMENTS:**

Wear protective gloves to minimize skin contamination. Selection of specific items such as gloves, boots, apron or full-body suit will depend on operation.

**RESPIRATORY PROTECTION REQUIREMENTS:**

Under normal use conditions, with adequate ventilation, no special respiratory protective equipment is required.

**EXPOSURE GUIDELINES:**

No Information Available.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

FORM:	Liquid
COLOR:	Pale Yellow
ODOR:	Mild odor
VAPOR PRESSURE:	< 1 mm Hg @ 25 C
VAPOR DENSITY:	> 1 (Air = 1)
SOLUBILITY IN WATER:	Soluble
SPECIFIC GRAVITY:	1.04 (Water = 1)
BULK DENSITY:	8.66 lbs/gal
MELTING/FREEZING POINT:	< 0 C
PH:	5 - 7.5
% VOLATILES:	< 1 % @ 100 C

**10. STABILITY AND REACTIVITY**

**STABILITY:**

This product is stable at ambient conditions.

**POLYMERIZATION:**

Hazardous polymerization will not occur.

**INCOMPATIBILITY WITH OTHER MATERIALS:**

Avoid contact with strong bases. Avoid contact with strong oxidizing agents.

**DECOMPOSITION:**

In the case of a fire, oxides of carbon, hydrocarbons, fumes, and smoke may be produced.



## 11. TOXICOLOGICAL INFORMATION

No information available.

## 12. ECOLOGICAL INFORMATION

No information available.

## 13. DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL:

All waste materials should be packaged, labeled and transported in accordance with all national, state/provincial, and local requirements.

## 14. TRANSPORT INFORMATION

PRODUCT LABEL:	Brilliance - Harrell's
D.O.T. SHIPPING NAME:	Not Regulated
D.O.T. LABEL:	Non Hazardous

## 15. REGULATORY INFORMATION

### CHEMICAL INVENTORY INFORMATION:

This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA). This material or all of its components are listed on the Canadian Domestic Substances List (DSL). This material or all of its components are listed (or considered as having been notified) on the European Inventory of Existing Chemical Substances (EINECS).

## 16. OTHER INFORMATION

PREPARED BY:	Randy Petrea
APPROVED BY:	Randy Petrea
TITLE:	Senior Research Chemist
APPROVAL DATE:	August 30, 2006
SUPERCEDES DATE:	August 16, 2006
MSDS NUMBER:	710045

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**END OF MSDS**

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