



MATERIAL SAFETY DATA SHEET

Fleet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: Fleet

Chemical Name: Surfactant blend, soil wetting agent

Chemical Family: Polyoxyalkylene polymers with HydrOtecH (Patented blend of Multi-Hydroxy polyoxyalkylene polyethers and organic acid correction complex)

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:

Soil wetting agent.

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 - 0

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
PATENTED BLEND	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: 227 C (440.6 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:	1.0515 (Water = 1)
MELTING/FREEZING POINT:	< 0 C
PH:	6.0 - 8.0
% VOLATILES:	~13 % @ 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:	Fleet
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 product or some of its components meet the requirement for the polymer exemption of the European Union COUNCIL DIRECTIVE 92/32/EEC of 30 April 1992 amending for the seventh time Directive 76/548/EEC, on the approximation of the laws, regulations and administrative provisions relating to the classification, packaging and labeling of dangerous substances.

16. OTHER INFORMATION

PREPARED BY:	Randy Petrea
APPROVED BY:	Randy Petrea
TITLE:	Senior Research Chemist
APPROVAL DATE:	January 29, 2008
SUPERCEDES DATE:	November 29, 2007



MSDS NUMBER: 018299

The information contained in this Material Safety Data Sheet is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Milliken Chemical. The data on this sheet are related only to the specific material designated herein. Milliken Chemical assumes no legal responsibility for use or reliance upon these data.

END OF MSDS

