

NFPA/HMIS: HEALTH - 1
FIRE - 0
REACTIVITY - 0

MATERIAL SAFETY DATA SHEET
COMPLIES WITH USDL SAFETY AND HEALTH REGULATIONS

U.S. DEPARTMENT OF LABOR
(29 CFR 1910.1200)

SECTION I:

SOLD BY: BUCK HEAD PRODUCTS & SYSTEMS
P.O. BOX 941790
ATLANTA, GA 31141
FOR REORDER: (800) 227-5487
FOR EMERGENCIES PLEASE CALL:
INFOTRAC (800) 535-5053
AVAILABLE 24 HRS.

SEE SPOT RUN

REVISION DATE: 10/14/93 (2)

SECTION II: HAZARDOUS INGREDIENTS

% TLV, (IN PPM)

THIS PRODUCT CONTAINS NO HAZARDOUS INGREDIENTS

THE EXACT COMPOSITION OF THIS FORMULATION IS CONSIDERED TO BE PROPRIETARY INFORMATION.

THIS PRODUCT IS NOT A CARCINOGEN OR POTENTIAL CARCINOGEN AS DEFINED BY OSHA, THE NTP, OR THE IARC MONOGRAPHS.

SECTION III: PHYSICAL DATA

BOILING POINT: 212° F
VAPOR PRESSURE: PSIG @ 70°F (AEROSOLS): N/A
VAPOR PRESSURE (NON-AEROSOLS): 18 mm Hg @ 75°F
VAPOR DENSITY (AIR = 1): .62
APPEARANCE AND ODOR: THIN, WHITE, OPAQUE LIQUID WITH A SWEET ODOR

SPECIFIC GRAVITY (H₂O = 1): 1.00
WATER REACTIVE: NO
SOLUBILITY IN WATER: COMPLETE
EVAPORATION RATE (WATER = 1): 1.00

SECTION IV: FIRE AND EXPLOSION DATA

FLAMMABILITY AS PER USA FLAME PROJECTION TEST (AEROSOLS): NOT APPLICABLE
FLAMMABLE LIMITS: NOT APPLICABLE
EXTINGUISHING MEDIA: NON-COMBUSTIBLE
SPECIFIC FIREFIGHTING PROCEDURES: NONE
UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE

SECTION V: HEALTH HAZARD DATA

ACUTE EFFECTS:

EYES: MAY BE AN IRRITANT
SKIN: MAY BE AN IRRITANT
INHALATION: NONE
INGESTION: GASTROINTESTINAL IRRITANT

CHRONIC EFFECTS: NONE IDENTIFIED

EMERGENCY FIRST AID PROCEDURES:

EYES: WASH WITH WATER FOR 15 MINUTES. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.
SKIN: WASH WITH SOAP AND WATER AFTER REMOVING CONTAMINATED CLOTHING.
INHALATION: REMOVE TO FRESH AIR. NO ADVERSE EFFECTS NOTED.
INGESTION: **DO NOT INDUCE VOMITING.** DRINK 2 LARGE GLASSES OF WATER. SEEK IMMEDIATE MEDICAL ATTENTION.

SECTION VI: REACTIVITY DATA

STABILITY DATA: STABLE
INCOMPATIBILITY: NONE IDENTIFIED
HAZARDOUS DECOMPOSITION PRODUCTS: NONE
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION VII: SPILL OR LEAK PROCEDURES

DIKE AND CONTAIN. COLLECT AND REUSE. WASH AFFECTED AREAS WITH CLEAR WATER.

RINSE EMPTY CONTAINERS WITH WATER BEFORE SENDING TO AUTHORIZED LANDFILL.

SECTION VIII: SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: NONE REQUIRED
VENTILATION: NORMAL EXHAUST IS ADEQUATE.
PROTECTIVE GLOVES: RUBBER IF DESIRED.
EYE PROTECTION: GOGGLES IF DESIRED.
OTHER PROTECTIVE EQUIPMENT: APRON AND BOOTS IF DESIRED.
HYGIENIC WORK PRACTICES: WASH HANDS AFTER USE.

SECTION IX: SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

ALWAYS STORE UNUSED PORTION IN ORIGINAL CONTAINER WITH CAP SECURE. AVOID TEMPERATURE EXTREMES.

OTHER PRECAUTIONS:

AS WITH ALL CHEMICALS, USE WITH DUE CARE ACCORDING TO LABEL INSTRUCTIONS AND PRECAUTIONS.
SHELF LIFE ONE YEAR. **KEEP OUT OF REACH OF CHILDREN.**

MATERIAL SAFETY DATA SHEET

MilliCare® Torpedo 65

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: MilliCare® Torpedo 65

Chemical Name: Blend

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:

Cleaner.

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT LISTING:

Chemical Name	Amount	CAS Number
NON-TOXIC ABSORBENT SYNTHETIC POLYMER	6.5 %	

(See Section 8 for exposure guidelines)

(See Section 15 for regulatory information)

OTHER INFORMATION:

** Cleaning solution contains a mixture of: Water, Non-Ionic Surfactant, Preservatives.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

This liquid product contains granular components. Avoid eye contact. Eye irritant. Keep container tightly closed. Avoid breathing dust after product has dried.

HFRP Rating:

Health - 1

Flammability - 0

Reactivity - 0

Personal Protection Index - B

NFPA/HFRP Definitions: (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or an internally derived Milliken system (for HFRP ratings).



POTENTIAL HEALTH EFFECTS

EYE:

This liquid product contains granular components. Can cause eye irritation.

SKIN:

This material is not a primary skin irritant. Prolonged or repeated contact may irritate the skin and cause a skin rash (dermatitis).

INHALATION:

Prolonged or excessive inhalation of dust that results after the product dries may cause coughing or sneezing.

INGESTION:

Essentially non-toxic.

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. Use a moisturizing cream, if needed for dryness. Get medical attention if irritation develops or persists.

INHALATION FIRST AID:

If exposed to excessive levels of dust, remove to fresh air. Get medical attention if cough or other symptoms develop.

INGESTION FIRST AID:

If swallowed, immediately give 2 glasses of water. Contact a physician. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

COC Flash Point: N/A

Autoignition Temperature: N/A

FLAMMABLE LIMITS IN AIR

LEL: %

UEL: %

EXTINGUISHING MEDIA:

Water, carbon dioxide, foam or dry powder. Use water spray to cool fire exposed containers.

FIRE & EXPLOSION HAZARDS:

No known unusual hazards in a fire/explosion situation.

FIRE FIGHTING INSTRUCTIONS:

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

6. ACCIDENTAL RELEASE MEASURES

SAFEGUARDS (PERSONNEL):

If excessive dust is created, wear dust mask or respirator to keep exposure below the Permissible Exposure Level for particulate matter. Wear appropriate personal protective equipment.



SPILL PROCEDURE:

Clean up area by absorbent material. All waste materials should be packaged, labeled, and transported in accordance with all national, state/provincial, and local requirements.

INITIAL CONTAINMENT:

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

7. HANDLING AND STORAGE

RECOMMENDED STORAGE TEMPERATURE

Minimum: 2 C (35.6 F)

Maximum: 40 C (104.0 F)

HANDLING (PERSONNEL):

Avoid prolonged contact with skin or eyes. Do not create excessive dust.

STORAGE PRECAUTIONS:

Keep container closed to prevent drying out. Avoid extreme temperatures.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

Good general ventilation should be sufficient to control airborne levels.

EYE / FACE PROTECTION REQUIREMENTS:

When used in accordance with package instructions no precautions should be necessary. Where contact with this material is likely, chemical goggles are recommended.

SKIN PROTECTION REQUIREMENTS:

For brief contact, normal work attire should be sufficient. When prolonged or frequently repeated contact could occur, use protective clothing impervious to this material.

RESPIRATORY PROTECTION REQUIREMENTS:

Under normal use conditions, with adequate ventilation, no special respiratory protective equipment is required. If airborne concentrations exceed the OSHA exposure limit for dust, a NIOSH approved dust mask is recommended.

EXPOSURE GUIDELINES:**Particulates not otherwise regulated**

Recommended Exposure Limit: 5 mg/m³

OSHA TWA: 15 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	Liquid Dispersion
COLOR:	White
ODOR:	Slight odor
SOLUBILITY IN WATER:	Dispersible
SPECIFIC GRAVITY:	1.055 (Water = 1)
PH:	7-9 as aqueous solution
% VOLATILES:	>80 % @ 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 Acidic conditions.

DECOMPOSITION:

Avoid temperatures above 200°C. Ammonia and similar products may be produced. Product may decompose at temperatures above 270°C and release carbon dioxide.

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL TESTING:

The modified draize repeated insult patch test study in human volunteers for this product was determined to be not a primary skin irritant, a fatiguing agent, or a sensitizing agent for the powder version of this product.

The acute oral toxicity (LD50) in rats for this material was determined to be greater than 5000mg/kg.

The primary dermal irritation in rabbits for this material was considered to be slightly irritating.

The primary eye irritation in rabbits for this material was determined to be an eye irritant.

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. Dispose of full vacuum cleaner bags containing dirt, carpet fibers, and used carpet cleaner with other non-recyclable trash.

14. TRANSPORTATION INFORMATION

PRODUCT LABEL:	MilliCare® Torpedo 65
D.O.T. HAZARD CLASS:	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).

16. OTHER INFORMATION

REASON FOR ISSUE:	New product
PREPARED BY:	Mike Valenti, Sr. Chemist



APPROVED BY: Mike Valenti
TITLE: Development Associate
APPROVAL DATE: May 10, 2005
SUPERCEDES DATE: May 10, 2005

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



MATERIAL SAFETY DATA SHEET – U.S.

Ultracac Trafficlean S711

Professional Chemicals Corporation

Revision Date: January 8, 2003 Revision 2.1

Section 1: Chemical Product and Company Information

Product Name: Ultracac Trafficlean

Product Number: S711

Manufacturer: Professional Chemicals Corp
325 S. Price Road
Chandler, AZ USA 85224

Emergency Telephone:
(800) 535-5053 [Infotrac]

Section 2: Composition / Information or Ingredients

<u>Hazardous Ingredient</u>	<u>CAS</u>	<u>OSHA PEL</u>	<u>OSHA HAZARD</u>	<u>LD₅₀ LC₅₀</u>
Ethylene Glycol Butyl Ether	111-76-2	N/E	Acute	See Section 11

Section 3: Hazard Identification

Emergency Overview

Appearance: Yellow Opaque Liquid

Odor: Mint Scent

Flashpoint: >212°F

Hazard: Product is mild irritant

Eye Contact: May cause temporary eye irritation; injury to eye tissue unlikely.

Skin Contact: Frequent or prolonged contact may cause temporary irritation. Skin contact may aggravate an existing dermatitis condition.

Inhalation: May cause slight temporary irritation.

Ingestion: Small amounts swallowed incidental to normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause temporary injury.

HMIS Hazard Rating: Health 1 Flammability 0 Reactivity 0

Section 4: First Aid Measures

Eye Contact: Immediately irrigate with flowing water continuously for 15 minutes. If irritation persists consult medical personnel.

Skin Contact: Wash with soap and water. If irritation persists consult medical personnel.

Inhalation: Move to fresh air. If irritation persists consult medical personnel.

Ingestion: If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. If injured party is conscious, give two glasses of water. Seek medical attention.

MATERIAL SAFETY DATA SHEET – U.S.

Ultrapac Trafficlean S711

Professional Chemicals Corporation

Revision Date: January 8, 2003 Revision 2.1

Section 5: Fire-Fighting Measures

Flashpoint: >212°F

Upper Flammable Limit (% by volume): N/D

Autoignition Temperature: N/D

Lower Flammable Limit (% by volume): N/D

General Hazard: Mild Irritant

Fire Fighting Procedures: Wear self-contained breathing apparatus and full protective clothing. Use water spray to cool nearby containers and structures exposed to fire.

Hazardous Decomposition Products: During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds. Hazardous combustion products may include and are not limited to carbon dioxide and carbon monoxide.

Section 6: Accidental Release Measures

Keep all unnecessary personnel away. Prevent additional discharge of material. Prevent material from entering sewers, watercourses, or low areas. Contain and absorb spilled material with sand or earth. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

Section 7: Handling and Storage

Store out of reach of children; keep container closed; store in a cool well-ventilated place away from strong oxidizing or alkaline product. Avoid contact with skin and eyes. Use in a well-ventilated area; do not breathe vapors. Wash hands thoroughly after handling.

Section 8: Exposure Controls / Personal Protection

Engineering Controls: Normal room ventilation is satisfactory for limited use.

Eye Protection: Safety glasses.

Skin Protection: Use gloves impervious to this material when prolonged or frequently repeated contact could occur.

Respiratory: No respiratory protection should be needed.

Exposure guidelines: N/E

Section 9: Physical and Chemical Properties

Appearance/Physical State: Opaque Yellow Liquid

Odor: Mint scent

Vapor Pressure: N/D

Vapor Density: N/D

Boiling Point: N/D

Freezing Point: N/D

Density: 9.4 lbs. /gal.

Concentrate pH: 9.5

Solubility in Water: N/D

RTU pH: 9.5 – 9.8

MATERIAL SAFETY DATA SHEET – U.S.

Ultracac Trafficlean S711

Professional Chemicals Corporation

Revision Date: January 8, 2003 Revision 2.1

Section 10: Stability and Reactivity

Chemical stability: Stable

Incompatibility with other substances: Strong oxidizing or alkaline agents

Reactivity: None Known

Hazardous Decomposition Products: Exposure to fire may liberate carbon dioxide, carbon monoxide, organic acids, and other unidentified thermal decomposition products from this product or its packaging.

Section 11: Toxicological Information

Route of Entry: Eye/Skin contact

Effects of Acute Overexposure to Product:

Eye Contact: May cause temporary eye irritation, redness, tearing, and blurred vision

Skin Contact: May cause temporary skin irritation, defatting and dermatitis

Inhalation: Inhalation of mist or vapor may cause temporary respiratory irritation; temporary central nervous system effects including dizziness, weakness, fatigue, nausea, and headache.

Ingestion: May cause gastrointestinal temporary irritation with nausea, vomiting and diarrhea
aspiration into the lungs can cause chemical pneumonitis.

Effects of Chronic Overexposure to Product:

Exposure limits: N/D for mixture

Teratogenicity: None

Reproductive toxicity: None

Sensitization to Product: None known

Mutagenicity: None

Carcinogenicity: None

Section 12: Ecological Information

Please refer to Section 6 for information regarding accidental releases and Section 15 for regulatory reporting information.

Section 13: Disposal Considerations

Dispose of in accordance with federal, state and local regulations. Prevent run-off to sewers.

Section 14: Transportation Information

Product is not hazardous by DOT regulation.

Packaging: Strong outer packaging. UN specification packaging not required.

Note: Additional compliance steps are required for air shipments; ship in accordance with 49 CFR parts 100 - 185.

MATERIAL SAFETY DATA SHEET – U.S.

Ultracac Trafficlean S711

Professional Chemicals Corporation

Revision Date: January 8, 2003 Revision 2.1

Section 15: Regulatory Information

TSCA: All chemicals used in this product are listed

CERCLA: No

SARA Title III: Under the provisions of Title III, Sections 311/312 of the Superfund Amendments and Reauthorization Act, this product is classified into the immediate health hazard category

The chemicals used in this product may be subject to the provisions of the Community Right-to Know Act (40 CFR 370 - 374). If reporting requirements are met, please contact the Environmental, Health and Safety (EHS) Manager for information regarding this product.

Section 16: Other Information

This document is prepared in accordance with 29 CFR 1910.1200. The purpose of this section is to ensure that the hazards of all chemicals produced or imported are evaluated, and that information concerning their hazards is transmitted to employers and employees.

All information appearing herein is based upon data obtained from the raw material manufacturer and/or recognized technical sources. While the information above is believed to be true and accurate, the author makes no representations as to its accuracy or sufficiency. Conditions of use are beyond the manufacturer's control; therefore the users are responsible to verify this data under their own particular conditions, applications and regulations to determine if the product is suitable for their particular purposes. The users assume all risks of product use, handling, disposal, reliance upon, publication or use of the information contained herein. This information applies only to the product designated above and does not necessarily apply to its use in combination with other materials, products, chemical compounds, structures or processes.

Prepared by: EHS Manager

Phone Number: [480] 899-7000

MATERIAL SAFETY DATA SHEET – U.S.

Ultracac Trafficlean S711

Professional Chemicals Corporation

Revision Date: January 8, 2003 Revision 2.1

Section 1: Chemical Product and Company Information

Product Name: Ultracac Trafficlean

Product Number: S711

Manufacturer: Professional Chemicals Corp
325 S. Price Road
Chandler, AZ USA 85224

Emergency Telephone:
(800) 535-5053 [Infotrac]

Section 2: Composition / Information or Ingredients

<u>Hazardous Ingredient</u>	<u>CAS</u>	<u>OSHA PEL</u>	<u>OSHA HAZARD</u>	<u>LD₅₀ LC₅₀</u>
Ethylene Glycol Butyl Ether	111-76-2	N/E	Acute	See Section 11

Section 3: Hazard Identification

Emergency Overview

Appearance: Yellow Opaque Liquid

Odor: Mint Scent

Flashpoint: >212°F

Hazard: Product is mild irritant

Eye Contact: May cause temporary eye irritation; injury to eye tissue unlikely.

Skin Contact: Frequent or prolonged contact may cause temporary irritation. Skin contact may aggravate an existing dermatitis condition.

Inhalation: May cause slight temporary irritation.

Ingestion: Small amounts swallowed incidental to normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause temporary injury.

HMIS Hazard Rating: Health 1 Flammability 0 Reactivity 0

Section 4: First Aid Measures

Eye Contact: Immediately irrigate with flowing water continuously for 15 minutes. If irritation persists consult medical personnel.

Skin Contact: Wash with soap and water. If irritation persists consult medical personnel.

Inhalation: Move to fresh air. If irritation persists consult medical personnel.

Ingestion: If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. If injured party is conscious, give two glasses of water. Seek medical attention.

MATERIAL SAFETY DATA SHEET – U.S.

Ultrapac Trafficlean S711

Professional Chemicals Corporation

Revision Date: January 8, 2003 Revision 2.1

Section 5: Fire-Fighting Measures

Flashpoint: >212°F

Autoignition Temperature: N/D

General Hazard: Mild Irritant

Upper Flammable Limit (% by volume): N/D

Lower Flammable Limit (% by volume): N/D

Fire Fighting Procedures: Wear self-contained breathing apparatus and full protective clothing. Use water spray to cool nearby containers and structures exposed to fire.

Hazardous Decomposition Products: During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds. Hazardous combustion products may include and are not limited to carbon dioxide and carbon monoxide.

Section 6: Accidental Release Measures

Keep all unnecessary personnel away. Prevent additional discharge of material. Prevent material from entering sewers, watercourses, or low areas. Contain and absorb spilled material with sand or earth. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

Section 7: Handling and Storage

Store out of reach of children; keep container closed; store in a cool well-ventilated place away from strong oxidizing or alkaline product. Avoid contact with skin and eyes. Use in a well-ventilated area; do not breathe vapors. Wash hands thoroughly after handling.

Section 8: Exposure Controls / Personal Protection

Engineering Controls: Normal room ventilation is satisfactory for limited use.

Eye Protection: Safety glasses.

Skin Protection: Use gloves impervious to this material when prolonged or frequently repeated contact could occur.

Respiratory: No respiratory protection should be needed.

Exposure guidelines: N/E

Section 9: Physical and Chemical Properties

Appearance/Physical State: Opaque Yellow Liquid

Vapor Pressure: N/D

Boiling Point: N/D

Density: 9.4 lbs. /gal.

Solubility in Water: N/D

Odor: Mint scent

Vapor Density: N/D

Freezing Point: N/D

Concentrate pH: 9.5

RTU pH: 9.5 – 9.8

MATERIAL SAFETY DATA SHEET – U.S.

Ultracac Trafficlean S711

Professional Chemicals Corporation

Revision Date: January 8, 2003 Revision 2.1

Section 10: Stability and Reactivity

Chemical stability: Stable

Incompatibility with other substances: Strong oxidizing or alkaline agents

Reactivity: None Known

Hazardous Decomposition Products: Exposure to fire may liberate carbon dioxide, carbon monoxide, organic acids, and other unidentified thermal decomposition products from this product or its packaging.

Section 11: Toxicological Information

Route of Entry: Eye/Skin contact

Effects of Acute Overexposure to Product:

Eye Contact: May cause temporary eye irritation, redness, tearing, and blurred vision

Skin Contact: May cause temporary skin irritation, defatting and dermatitis

Inhalation: Inhalation of mist or vapor may cause temporary respiratory irritation; temporary central nervous system effects including dizziness, weakness, fatigue, nausea, and headache.

Ingestion: May cause gastrointestinal temporary irritation with nausea, vomiting and diarrhea
aspiration into the lungs can cause chemical pneumonitis.

Effects of Chronic Overexposure to Product:

Exposure limits: N/D for mixture

Teratogenicity: None

Reproductive toxicity: None

Sensitization to Product: None known

Mutagenicity: None

Carcinogenicity: None

Section 12: Ecological Information

Please refer to Section 6 for information regarding accidental releases and Section 15 for regulatory reporting information.

Section 13: Disposal Considerations

Dispose of in accordance with federal, state and local regulations. Prevent run-off to sewers.

Section 14: Transportation Information

Product is not hazardous by DOT regulation.

Packaging: Strong outer packaging. UN specification packaging not required.

Note: Additional compliance steps are required for air shipments; ship in accordance with 49 CFR parts 100 - 185.

MATERIAL SAFETY DATA SHEET – U.S.

Ultracac Trafficlean S711

Professional Chemicals Corporation

Revision Date: January 8, 2003 Revision 2.1

Section 15: Regulatory Information

TSCA: All chemicals used in this product are listed

CERCLA: No

SARA Title III: Under the provisions of Title III, Sections 311/312 of the Superfund Amendments and Reauthorization Act, this product is classified into the immediate health hazard category

The chemicals used in this product may be subject to the provisions of the Community Right-to Know Act (40 CFR 370 - 374). If reporting requirements are met, please contact the Environmental, Health and Safety (EHS) Manager for information regarding this product.

Section 16: Other Information

This document is prepared in accordance with 29 CFR 1910.1200. The purpose of this section is to ensure that the hazards of all chemicals produced or imported are evaluated, and that information concerning their hazards is transmitted to employers and employees.

All information appearing herein is based upon data obtained from the raw material manufacturer and/or recognized technical sources. While the information above is believed to be true and accurate, the author makes no representations as to its accuracy or sufficiency. Conditions of use are beyond the manufacturer's control; therefore the users are responsible to verify this data under their own particular conditions, applications and regulations to determine if the product is suitable for their particular purposes. The users assume all risks of product use, handling, disposal, reliance upon, publication or use of the information contained herein. This information applies only to the product designated above and does not necessarily apply to its use in combination with other materials, products, chemical compounds, structures or processes.

Prepared by: EHS Manager

Phone Number: [480] 899-7000

MATERIAL SAFETY DATA SHEET – U.S.

Ultracac Trafficlean S711

Professional Chemicals Corporation

Revision Date: January 8, 2003 Revision 2.1

Section 1: Chemical Product and Company Information

Product Name: Ultracac Trafficlean

Product Number: S711

Manufacturer: Professional Chemicals Corp
325 S. Price Road
Chandler, AZ USA 85224

Emergency Telephone:
(800) 535-5053 [Infotrac]

Section 2: Composition / Information or Ingredients

<u>Hazardous Ingredient</u>	<u>CAS</u>	<u>OSHA PEL</u>	<u>OSHA HAZARD</u>	<u>LD₅₀ LC₅₀</u>
Ethylene Glycol Butyl Ether	111-76-2	N/E	Acute	See Section 11

Section 3: Hazard Identification

Emergency Overview

Appearance: Yellow Opaque Liquid

Odor: Mint Scent

Flashpoint: >212°F

Hazard: Product is mild irritant

Eye Contact: May cause temporary eye irritation; injury to eye tissue unlikely.

Skin Contact: Frequent or prolonged contact may cause temporary irritation. Skin contact may aggravate an existing dermatitis condition.

Inhalation: May cause slight temporary irritation.

Ingestion: Small amounts swallowed incidental to normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause temporary injury.

HMIS Hazard Rating: Health 1 Flammability 0 Reactivity 0

Section 4: First Aid Measures

Eye Contact: Immediately irrigate with flowing water continuously for 15 minutes. If irritation persists consult medical personnel.

Skin Contact: Wash with soap and water. If irritation persists consult medical personnel.

Inhalation: Move to fresh air. If irritation persists consult medical personnel.

Ingestion: If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. If injured party is conscious, give two glasses of water. Seek medical attention.

MATERIAL SAFETY DATA SHEET – U.S.

Ultrapac Trafficlean S711

Professional Chemicals Corporation

Revision Date: January 8, 2003 Revision 2.1

Section 5: Fire-Fighting Measures

Flashpoint: >212°F

Autoignition Temperature: N/D

General Hazard: Mild Irritant

Upper Flammable Limit (% by volume): N/D

Lower Flammable Limit (% by volume): N/D

Fire Fighting Procedures: Wear self-contained breathing apparatus and full protective clothing. Use water spray to cool nearby containers and structures exposed to fire.

Hazardous Decomposition Products: During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds. Hazardous combustion products may include and are not limited to carbon dioxide and carbon monoxide.

Section 6: Accidental Release Measures

Keep all unnecessary personnel away. Prevent additional discharge of material. Prevent material from entering sewers, watercourses, or low areas. Contain and absorb spilled material with sand or earth. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

Section 7: Handling and Storage

Store out of reach of children; keep container closed; store in a cool well-ventilated place away from strong oxidizing or alkaline product. Avoid contact with skin and eyes. Use in a well-ventilated area; do not breathe vapors. Wash hands thoroughly after handling.

Section 8: Exposure Controls / Personal Protection

Engineering Controls: Normal room ventilation is satisfactory for limited use.

Eye Protection: Safety glasses.

Skin Protection: Use gloves impervious to this material when prolonged or frequently repeated contact could occur.

Respiratory: No respiratory protection should be needed.

Exposure guidelines: N/E

Section 9: Physical and Chemical Properties

Appearance/Physical State: Opaque Yellow Liquid

Vapor Pressure: N/D

Boiling Point: N/D

Density: 9.4 lbs./gal.

Solubility in Water: N/D

Odor: Mint scent

Vapor Density: N/D

Freezing Point: N/D

Concentrate pH: 9.5

RTU pH: 9.5 – 9.8

MATERIAL SAFETY DATA SHEET – U.S.

Ultrapac Trafficlean S711

Professional Chemicals Corporation

Revision Date: January 8, 2003 Revision 2.1

Section 10: Stability and Reactivity

Chemical stability: Stable

Incompatibility with other substances: Strong oxidizing or alkaline agents

Reactivity: None Known

Hazardous Decomposition Products: Exposure to fire may liberate carbon dioxide, carbon monoxide, organic acids, and other unidentified thermal decomposition products from this product or its packaging.

Section 11: Toxicological Information

Route of Entry: Eye/Skin contact

Effects of Acute Overexposure to Product:

Eye Contact: May cause temporary eye irritation, redness, tearing, and blurred vision

Skin Contact: May cause temporary skin irritation, defatting and dermatitis

Inhalation: Inhalation of mist or vapor may cause temporary respiratory irritation; temporary central nervous system effects including dizziness, weakness, fatigue, nausea, and headache.

Ingestion: May cause gastrointestinal temporary irritation with nausea, vomiting and diarrhea
aspiration into the lungs can cause chemical pneumonitis.

Effects of Chronic Overexposure to Product:

Exposure limits: N/D for mixture

Teratogenicity: None

Reproductive toxicity: None

Sensitization to Product: None known

Mutagenicity: None

Carcinogenicity: None

Section 12: Ecological Information

Please refer to Section 6 for information regarding accidental releases and Section 15 for regulatory reporting information.

Section 13: Disposal Considerations

Dispose of in accordance with federal, state and local regulations. Prevent run-off to sewers.

Section 14: Transportation Information

Product is not hazardous by DOT regulation.

Packaging: Strong outer packaging. UN specification packaging not required.

Note: Additional compliance steps are required for air shipments; ship in accordance with 49 CFR parts 100 - 185.

MATERIAL SAFETY DATA SHEET – U.S.

Ultracpac Trafficlean S711

Professional Chemicals Corporation

Revision Date: January 8, 2003 Revision 2.1

Section 15: Regulatory Information

TSCA: All chemicals used in this product are listed

CERCLA: No

SARA Title III: Under the provisions of Title III, Sections 311/312 of the Superfund Amendments and Reauthorization Act, this product is classified into the immediate health hazard category

The chemicals used in this product may be subject to the provisions of the Community Right-to Know Act (40 CFR 370 - 374). If reporting requirements are met, please contact the Environmental, Health and Safety (EHS) Manager for information regarding this product.

Section 16: Other Information

This document is prepared in accordance with 29 CFR 1910.1200. The purpose of this section is to ensure that the hazards of all chemicals produced or imported are evaluated, and that information concerning their hazards is transmitted to employers and employees.

All information appearing herein is based upon data obtained from the raw material manufacturer and/or recognized technical sources. While the information above is believed to be true and accurate, the author makes no representations as to its accuracy or sufficiency. Conditions of use are beyond the manufacturer's control; therefore the users are responsible to verify this data under their own particular conditions, applications and regulations to determine if the product is suitable for their particular purposes. The users assume all risks of product use, handling, disposal, reliance upon, publication or use of the information contained herein. This information applies only to the product designated above and does not necessarily apply to its use in combination with other materials, products, chemical compounds, structures or processes.

Prepared by: EHS Manager

Phone Number: [480] 899-7000

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: MilliCare™ Antistat Concentrate

Company Identification

Sylvan Chemical Co., Inc.

La Grange, Georgia 30240 USA

1-888-886-2273 (For questions and emergencies)

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

PRODUCT USE:

Anti-stat. Cleaner.

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT LISTING:

Chemical Name	Amount	CAS Number
WATER	50.0 - 60.0 %	7732-18-5
ALKANOLAMINE METHYL SULFATE SALT 1	30.0 - 40.0 %	N/A
POTASSIUM CHLORIDE	1.0 - 5.0 %	7447-40-7
ALKANOLAMINE METHYL SULFATE SALT 2	5.0 - 10.0 %	

(See Section 8 for exposure guidelines)

(See Section 15 for regulatory information)

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

May cause eye irritation. Thoroughly wash exposed area with large amounts of water.

HMIS Rating:

Health - 1

Flammability - 0

Reactivity - 0

Personal Protection Index - B

NFPA/HMIS Definitions: (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

POTENTIAL HEALTH EFFECTS

EYE:

May cause eye irritation.

UNCONTROLLED DOCUMENT



SKIN:

Not expected to be a skin irritant.

INHALATION:

No information regarding inhalation available.

INGESTION:

No information regarding ingestion available.

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. Get medical attention if irritation develops or persists. Wash contaminated clothing before reuse.

INHALATION FIRST AID:

Although this product is not known to cause respiratory problems, if breathing is difficult, remove to fresh air and provide oxygen. If exposed to excessive levels of fumes, remove to fresh air. Get medical attention if cough or other symptoms develop.

INGESTION FIRST AID:

Do not induce vomiting. If swallowed, immediately give 2 glasses of water. Contact a physician. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

PMCC Flash Point: >100 C (> 212.0 F)

Autoignition Temperature: N/A

FLAMMABLE LIMITS IN AIR

LEL: %

UEL: %

EXTINGUISHING MEDIA:

Water, carbon dioxide, foam or dry powder. Use water spray to cool fire exposed containers.

FIRE & EXPLOSION HAZARDS:

Oxides of nitrogen may be produced during decomposition.

FIRE FIGHTING INSTRUCTIONS:

As in any fire, wear self-contained breathing apparatus pressure-demand MSHA/NIOSH (approved or equivalent) and full protective gear. Contain runoff water.

6. ACCIDENTAL RELEASE MEASURES

SAFEGUARDS (PERSONNEL):

Wear appropriate personal protective equipment.

SPILL PROCEDURE:



Secure the spill area. Isolate Hazard Area. Clean up area by absorbent material. All waste materials should be packaged, labeled, and transported in accordance with all national, state/provincial, and local requirements.

7. HANDLING AND STORAGE

RECOMMENDED STORAGE TEMPERATURE

Minimum: 0.0 C (32.0 F)

Maximum: 48.9 C (120.0 F)

HANDLING (PERSONNEL):

Avoid prolonged contact with skin or eyes. Wash hands thoroughly after handling.

HANDLING (PHYSICAL ASPECTS):

Keep container closed to avoid contamination.

STORAGE PRECAUTIONS:

Keep container tightly closed. If frozen, thaw completely and agitate containers before use. Avoid extreme temperatures.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

Keep container tightly closed. Good general ventilation should be sufficient to control airborne levels.

EYE / FACE PROTECTION REQUIREMENTS:

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

SKIN PROTECTION REQUIREMENTS:

When prolonged or frequently repeated contact could occur, use protective clothing impervious to this material.

RESPIRATORY PROTECTION REQUIREMENTS:

Under normal use conditions, with adequate ventilation, no special respiratory protective equipment is required. When there is potential for airborne exposures in excess of applicable limits, wear NIOSH/MSHA approved respiratory protection.

EXPOSURE GUIDELINES:

No Information Available.

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	Liquid
COLOR:	Colorless
ODOR:	Mild odor
BOILING POINT:	100 C @ 760 mm Hg
SOLUBILITY IN WATER:	Complete
SPECIFIC GRAVITY:	1.1 (Water = 1)
PH:	7.5-8.5
% VOLATILES:	58 %
VOLATILE ORGANIC COMPOUNDS (VOC):	None

10. STABILITY AND REACTIVITY

STABILITY:

UNCONTROLLED DOCUMENT



This product is stable at ambient conditions.

POLYMERIZATION:

Hazardous polymerization will not occur.

DECOMPOSITION:

Decomposition will not occur if handled and stored properly.

11. TOXICOLOGICAL INFORMATION

MISCELLANEOUS:

Inhalation 4 hour ALC: >25 mg/L.

Oral ALD: >17,000 mg/kg.

12. ECOLOGICAL INFORMATION

ECOLOGICAL TESTING:

The 48 hour EC50 in *Daphnia magna* was determined to be >50 but <500 mg/L.

MISCELLANEOUS:

Low to slightly toxic.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

Avoid washing material into sewer systems without proper treatment and authorization by the treatment facility management. All waste materials should be packaged, labeled, and transported in accordance with all national, state/provincial, and local requirements. Uncleaned empty containers should be disposed of in the same manner as the contents.

14. TRANSPORTATION INFORMATION

PRODUCT LABEL:	MilliCare™ Antistat Concentrate
D.O.T. SHIPPING NAME:	Not Regulated
D.O.T. HAZARD CLASS:	Not Regulated

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).

WHMIS Hazard Symbols:

None

EEC Symbols and Indications of Danger:

Not Determined



16. OTHER INFORMATION

PREPARED BY: Steven Brown
APPROVED BY: Ann Brooks
TITLE: Administrative Assistance
APPROVAL DATE: September 11, 2002
SUPERCEDES DATE: February 21, 2001
MSDS NUMBER: 827012

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 Sylvan Chemical Co., Inc. The data on this sheet are related only to the specific material designated herein. Sylvan Chemical Co., Inc. assumes no legal responsibility for use or reliance upon these data.

END OF MSDS

UNCONTROLLED DOCUMENT



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: MilliCare™ Crowd Control
CAS Number: Blend

Company Identification

Sylvan Chemical Co., Inc.
La Grange, Georgia 30240 USA
1-888-886-2273 (For questions and emergencies)
1-800-424-9300 or 1-703-527-3887 (CHEMTREC)

PRODUCT USE:

Cleaner.

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT LISTING:

Chemical Name	Amount	CAS Number
AMYLASE, BACTERIAL	1.0 - 5.0 %	9000-85-5
BACILLUS SUBTILIS ENZYME FERMENTATION PRODUCT	1.0 - 5.0 %	9014-01-1
CARBONIC ACID, SODIUM SALT (2:3)	40.0 - 70.0 %	533-96-0
SODIUM CARBONATE	10.0 - 30.0 %	497-19-8
CITRIC ACID	1.0 - 5.0 %	77-92-9
ANIONIC & NONIONIC SURFACTANTS	3.0 - 30.0 %	

(See Section 8 for exposure guidelines)

(See Section 15 for regulatory information)

SARA 311 Categories:

Immediate (Acute) Health Effects: Yes
Delayed (Chronic) Health Effects: No
Fire Hazard: No
Sudden Release Of Pressure Hazard: No
Reactivity Hazard: No

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Eye irritant. Avoid contact with eyes. Avoid inhalation. May be harmful if swallowed. Prolonged or repeated contact may cause skin or eye irritation.

IIMIS Rating:

Health - 2
Flammability - 1
Reactivity - 0



Personal Protection Index - B

NFPA/HMIS Definitions: (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

POTENTIAL HEALTH EFFECTS

EYE:

Can cause eye irritation.

SKIN:

Can cause moderate skin irritation.

INHALATION:

May cause irritation of the upper respiratory passages. Respiratory sensitization may occur.

INGESTION:

May be harmful if swallowed. May cause nausea, vomiting and diarrhea.

4. FIRST AID MEASURES

EYE CONTACT FIRST AID:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Contact a physician.

SKIN CONTACT FIRST AID:

In case of contact, immediately flush skin with plenty of water for at least 15 minutes.

INHALATION FIRST AID:

Avoid circumstances that produce respirable particles. If exposed to excessive levels of fumes, remove to fresh air. Contact a physician.

INGESTION FIRST AID:

If swallowed, immediately give 2 glasses of water. Do not induce vomiting. If vomiting should occur spontaneously, keep airway clear. Never give anything by mouth to an unconscious person. Get immediate medical attention. Contact a physician.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

COC Flash Point: N/A

Autoignition Temperature: N/A

FLAMMABLE LIMITS IN AIR

LEL: N/A

UEL: N/A

EXTINGUISHING MEDIA:

Water, carbon dioxide, foam or dry powder. Use water spray to cool fire exposed containers.

FIRE & EXPLOSION HAZARDS:

No known unusual hazards in a fire/explosion situation

FIRE FIGHTING INSTRUCTIONS:

As in any fire, wear self-contained breathing apparatus pressure-demand MSHA/NIOSH (approved or equivalent) and full



protective gear. Evacuate non-emergency personnel to a safe area.

6. ACCIDENTAL RELEASE MEASURES

SAFEGUARDS (PERSONNEL):

Floor may become slippery. Isolate Hazard Area. Ventilate spill area.

SPILL PROCEDURE:

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

INITIAL CONTAINMENT:

Contain spilled material.

7. HANDLING AND STORAGE

RECOMMENDED STORAGE TEMPERATURE

Minimum: 12.8 C (55.0 F)

Maximum: 23.9 C (75.0 F)

SHELF LIFE: (in original, sealed containers)

12 months @ 12.8 C

HANDLING (PERSONNEL):

Wash hands thoroughly after handling.

HANDLING (PHYSICAL ASPECTS):

Keep out of reach of children. Keep container closed to avoid contamination.

STORAGE PRECAUTIONS:

Store in a cool dry place. Keep container tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

Good general ventilation should be sufficient to control airborne levels.

EYE / FACE PROTECTION REQUIREMENTS:

Chemical goggles are recommended to avoid contact with eyes.

SKIN PROTECTION REQUIREMENTS:

Wear protective gloves to minimize skin contamination.

RESPIRATORY PROTECTION REQUIREMENTS:

Atmospheric levels should be maintained below the exposure guideline.

EXPOSURE GUIDELINES:

No Information Available.

9. PHYSICAL AND CHEMICAL PROPERTIES



FORM:	Powder
COLOR:	White
ODOR:	Slight
BOILING POINT:	N/A C
SOLUBILITY IN WATER:	Soluble to at least 5%
SPECIFIC GRAVITY:	0.75 - 0.85 (Water = 1)
MELTING/FREEZING POINT:	N/A C
PH:	10.0-10.2 as 1% in water
% VOLATILES:	None %
VOLATILE ORGANIC COMPOUNDS (VOC):	None

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 Acidic conditions.

DECOMPOSITION:

Decomposition may produce fumes, smoke, oxides of carbon and hydrocarbons.

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. TRANSPORTATION INFORMATION

PRODUCT LABEL:	MilliCare™ Crowd Control
D.O.T. SHIPPING NAME:	Not Regulated

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

UNCONTROLLED DOCUMENT



Control Act (TSCA).

WHMIS Hazard Symbols:

Class D-2(A) - Materials Causing Other Toxic Effects



Canadian Disclosure List

SODIUM CARBONATE (497-19-8)

CITRIC ACID (77-92-9)

16. OTHER INFORMATION

REASON FOR ISSUE:	New Product
PREPARED BY:	John Bruhnke
APPROVED BY:	Steven Brown
TITLE:	Senior Development Chemist
APPROVAL DATE:	June 27, 2000
SUPERCEDES DATE:	April 23, 1999
MSDS NUMBER:	827670

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 Sylvan Chemical Co., Inc. The data on this sheet are related only to the specific material designated herein. Sylvan Chemical Co., Inc. assumes no legal responsibility for use or reliance upon these data.

END OF MSDS

UNCONTROLLED DOCUMENT



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: MilliCare® Defoamer
CAS Number: Blend

Company Identification

Sylvan Chemical Co., Inc.
La Grange, Georgia 30240 USA
1-888-886-2273 (For questions and emergencies)
1-800-424-9300 or 1-703-527-3887 (CHEMTREC)

PRODUCT USE:
Defoamer.

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT LISTING:

Chemical Name	Amount	CAS Number
WATER	80.0 - 95.0 %	
SILICON DEFOAMER	5.0 - 10.0 %	

(See Section 8 for exposure guidelines)

(See Section 15 for regulatory information)

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

The health hazards of this product should be low under normal industrial and commercial uses.

HMIS Rating:

Health - 1
Flammability - 0
Reactivity - 0
Personal Protection Index - B

NFPA/HMIS Definitions: (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

POTENTIAL HEALTH EFFECTS

EYE:

May cause eye irritation. No hazards expected in normal industrial use.

SKIN:

UNCONTROLLED DOCUMENT



May cause slight irritation. No hazards expected in normal industrial use.

INHALATION:

No information regarding inhalation available. No hazards expected in normal industrial use.

INGESTION:

No information regarding ingestion available. No hazards expected in normal industrial use.

4. FIRST AID MEASURES

EYE CONTACT FIRST AID:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Contact a physician.

SKIN CONTACT FIRST AID:

Wash affected area with large amounts of soap and water.

INHALATION FIRST AID:

Inhalation is not considered a potential route of exposure. If exposed to excessive levels of fumes, remove to fresh air. Contact a physician.

INGESTION FIRST AID:

Do not induce vomiting. Contact a physician.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

TCC Flash Point: > 93.4 C (> 200.1 F)

Autoignition Temperature: N/A

FLAMMABLE LIMITS IN AIR

LEL: N/A

UEL: N/A

EXTINGUISHING MEDIA:

Carbon dioxide, foam, or dry powder.

6. ACCIDENTAL RELEASE MEASURES

SAFEGUARDS (PERSONNEL):

Floor may become slippery. Isolate Hazard Area. Ventilate spill area.

SPILL PROCEDURE:

Clean up area by absorbent material. All waste materials should be packaged, labeled, and transported in accordance with all national, state/provincial, and local requirements.

INITIAL CONTAINMENT:

Contain spilled material. Absorb spills with inert material.

7. HANDLING AND STORAGE

HANDLING (PERSONNEL):



Wash hands thoroughly after handling.

HANDLING (PHYSICAL ASPECTS):

Keep out of reach of children. Keep container closed to avoid contamination.

STORAGE PRECAUTIONS:

Store in a cool dry place. Keep container tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

No special ventilation requirements.

EYE / FACE PROTECTION REQUIREMENTS:

Chemical goggles are recommended to avoid contact with eyes.

SKIN PROTECTION REQUIREMENTS:

Wear protective gloves to minimize skin contamination.

RESPIRATORY PROTECTION REQUIREMENTS:

Atmospheric levels should be maintained below the exposure guideline.

EXPOSURE GUIDELINES:

No Information Available.

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	Liquid
COLOR:	Light Blue
ODOR:	Slight
BOILING POINT:	100-101 C
VAPOR DENSITY:	N/A (Air = 1)
SOLUBILITY IN WATER:	Dispersible
SPECIFIC GRAVITY:	1.00 (Water = 1)
MELTING/FREEZING POINT:	N/A C
PH:	6.5 - 7.5 as is
% VOLATILES:	91 %
VOLATILE ORGANIC COMPOUNDS (VOC):	<1%

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 oxidizing agents.

DECOMPOSITION:

Decomposition may produce fumes, smoke, oxides of carbon and silicone.



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. TRANSPORTATION INFORMATION

PRODUCT LABEL:	MilliCare® Defoamer
D.O.T. SHIPPING NAME:	Not Regulated

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).

WHMIS Hazard Symbols:

None

16. OTHER INFORMATION

PREPARED BY:	John Bruhnke
APPROVED BY:	Steven Brown
TITLE:	Senior Development Chemist
APPROVAL DATE:	June 27, 2000
SUPERCEDES DATE:	June 9, 2000
MSDS NUMBER:	827662

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 Sylvan Chemical Co., Inc. The data on this sheet are related only to the specific material designated herein. Sylvan Chemical Co., Inc. assumes no legal responsibility for use or reliance upon these data.

END OF MSDS



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: MilliCare™ Detergent Residue Neutralizer
Chemical Family: Surfactant Blend
CAS Number: Blend

Company Identification

Sylvan Chemical Co., Inc.
La Grange, Georgia 30240 USA
1-888-886-2273 (For questions and emergencies)
1-800-424-9300 or 1-703-527-3887 (CHEMTREC)

PRODUCT USE:

Cleaner.

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT LISTING:

Chemical Name	Amount	CAS Number
WATER	90.0 - 98.0 %	
CLEANING SOLUTION (NON-IONIC SURFACTANT, CITRIC ACID, PRESERVATIVE)	5.0 - 10.0 %	

(See Section 8 for exposure guidelines)

(See Section 15 for regulatory information)

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

The health hazards of this product should be low under normal industrial and commercial uses.

HMIS Rating:

Health - 1
Flammability - 0
Reactivity - 0
Personal Protection Index - B

NFPA/HMIS Definitions: (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

POTENTIAL HEALTH EFFECTS

EYE:

May be slightly irritating. Not known to cause permanent injury to eye tissue.

UNCONTROLLED DOCUMENT



SKIN:

May cause skin irritation after repeated or prolonged use. Prolonged or repeated contact may irritate the skin and cause a skin rash (dermatitis).

INHALATION:

No information regarding inhalation available. No known hazards when used according to container instructions.

INGESTION:

No information regarding ingestion available. No known hazards in normal industrial use.

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. 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. Get medical attention if cough or other symptoms develop.

INGESTION FIRST AID:

If swallowed, immediately give 2 glasses of water. Contact a physician. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

COC Flash Point: >260 C (> 500.0 F)

Autoignition Temperature: N/A

FLAMMABLE LIMITS IN AIR

LEL: N/A

UEL: N/A

EXTINGUISHING MEDIA:

Water, carbon dioxide, foam or dry powder. Use water spray to cool fire exposed containers.

FIRE & EXPLOSION HAZARDS:

No known unusual hazards in a fire/explosion situation.

FIRE FIGHTING INSTRUCTIONS:

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

6. ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURE:

Clean up area by absorbent material. All waste materials should be packaged, labeled, and transported in accordance with all national, state/provincial, and local requirements.

INITIAL CONTAINMENT:



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

7. HANDLING AND STORAGE

HANDLING (PERSONNEL):

Avoid prolonged contact with skin or eyes. Wash hands thoroughly after handling.

STORAGE PRECAUTIONS:

Keep container tightly closed. Avoid extreme temperatures. Eliminate all sources of ignition - heat, sparks, flame, electricity, impact and friction.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

Good general ventilation should be sufficient to control airborne levels.

EYE / FACE PROTECTION REQUIREMENTS:

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

SKIN PROTECTION REQUIREMENTS:

When prolonged or frequently repeated contact could occur, use protective clothing impervious to this material.

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:	Thin Liquid
COLOR:	Colorless
ODOR:	Slight, sweet odor
BOILING POINT:	100 C
SOLUBILITY IN WATER:	Miscible
SPECIFIC GRAVITY:	0.996 (Water = 1)
PH:	2.1-2.9
% VOLATILES:	95-99 %
VOLATILE ORGANIC COMPOUNDS (VOC):	None

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.



DECOMPOSITION:

Decomposition will not occur if handled and stored properly.

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL TESTING:

The dermal sensitization in Guinea pigs, using the closed patch technique, for this product is considered to be not a skin sensitizer.

The primary eye irritation in rabbits for this material was determined to be not a primary eye irritant.

The acute oral toxicity (LD50) in rats for this material was determined to be greater than 5000mg/kg.

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. Uncleaned empty containers should be disposed of in the same manner as the contents.

14. TRANSPORTATION INFORMATION

PRODUCT LABEL:	MilliCare™ Detergent Residue Neutralizer
D.O.T. HAZARD CLASS:	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).

WHMIS Hazard Symbols:

None

16. OTHER INFORMATION

PREPARED BY:	Steven Brown
APPROVED BY:	Regina Harper
TITLE:	Regulatory Affairs Manager
APPROVAL DATE:	November 15, 2000
SUPERCEDES DATE:	September 29, 2000
MSDS NUMBER:	820654

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 Sylvan Chemical Co., Inc. The data on this sheet are related only to the specific material designated herein. Sylvan Chemical Co., Inc. assumes no legal responsibility for use or reliance upon these data.

END OF MSDS

UNCONTROLLED DOCUMENT



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: MilliCare™ Dry Carpet Cleaner (25# Pail)
CAS Number: Blend

Company Identification

Sylvan Chemical Co., Inc.
La Grange, Georgia 30240 USA
1-888-886-2273 (For questions and emergencies)
1-800-424-9300 or 1-703-527-3887 (CHEMTREC)

PRODUCT USE:

Cleaner.

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT LISTING:

Chemical Name	Amount	CAS Number
NON-TOXIC ABSORBENT SYNTHETIC POLYMER	25.0 - 50.0 %	
INORGANIC SUBSTRATE	15.0 - 25.0 %	
** CLEANING SOLUTION	30.0 - 40.0 %	

(See Section 8 for exposure guidelines)

(See Section 15 for regulatory information)

OTHER INFORMATION:

** Cleaning solution contains a mixture of: Water, Non-Ionic Surfactant, and Preservatives.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Eye Irritant. This is a granular product. Avoid contact with eyes. Keep container tightly closed.

HMIS Rating:

Health - 1
Flammability - 0
Reactivity - 0
Personal Protection Index - B

NFPA/HMIS Definitions: (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

POTENTIAL HEALTH EFFECTS



EYE:

This is a granular product. Can cause eye irritation.

SKIN:

The material, as tested, was found not to be a primary skin irritant. Prolonged or repeated contact may irritate the skin and cause a skin rash (dermatitis).

INHALATION:

Prolonged or excessive inhalation may cause coughing or sneezing.

INGESTION:

Essentially non-toxic.

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. Use a moisturizing cream, if needed for dryness. Get medical attention if irritation develops or persists.

INHALATION FIRST AID:

If exposed to excessive levels of dust, remove to fresh air. Get medical attention if cough or other symptoms develop.

INGESTION FIRST AID:

If swallowed, immediately give 2 glasses of water. Contact a physician. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

COC Flash Point: N/A

Autoignition Temperature: N/A

FLAMMABLE LIMITS IN AIR

LEL: N/A

UEL: N/A

EXTINGUISHING MEDIA:

Water, carbon dioxide, foam or dry powder. Use water spray to cool fire exposed containers.

FIRE & EXPLOSION HAZARDS:

No known unusual hazards in a fire/explosion situation.

FIRE FIGHTING INSTRUCTIONS:

As in any fire, wear self-contained breathing apparatus pressure-demand MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

SAFEGUARDS (PERSONNEL):

If excessive dust is created, wear dust mask or respirator to keep exposure below the Permissible Exposure Level for particulate



matter.

SPILL PROCEDURE:

Contain spilled material. Clean up area by absorbent material. All waste materials should be packaged, labeled, and transported in accordance with all national, state/provincial, and local requirements.

INITIAL CONTAINMENT:

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

7. HANDLING AND STORAGE

HANDLING (PERSONNEL):

Avoid prolonged contact with skin or eyes. Do not create excessive dust.

STORAGE PRECAUTIONS:

Keep container closed to prevent drying out. Avoid extreme temperatures.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

Good general ventilation should be sufficient to control airborne levels.

EYE / FACE PROTECTION REQUIREMENTS:

When used in accordance with package instructions no precautions should be necessary. Where contact with this material is likely, chemical goggles are recommended.

SKIN PROTECTION REQUIREMENTS:

For brief contact, normal work attire should be sufficient. When prolonged or frequently repeated contact could occur, use protective clothing impervious to this material.

RESPIRATORY PROTECTION REQUIREMENTS:

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

EXPOSURE GUIDELINES:

Particulates not otherwise regulated

Recommended Exposure Limit: 5 mg/m³

OSHA TWA: 15 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	Moist Powder
COLOR:	White
ODOR:	Slight odor
SOLUBILITY IN WATER:	Nil
BULK DENSITY:	0.60
PH:	7-9 as a 1% dilution in water
% VOLATILES:	35 % @ 100 C
VOLATILE ORGANIC COMPOUNDS (VOC):	<0.6

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 Acidic conditions.

DECOMPOSITION:

Avoid temperatures above 200C. Ammonia and similar products may be produced.

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL TESTING:

The modified draize repeated insult patch test study in human volunteers for this product was determined to be not a primary skin irritant, a fatiguing agent, or a sensitizing agent.

The acute oral LD50 of the tested material is greater than > than 5000mg/kg..

The primary dermal irritation in rabbits for this material was considered to be slightly irritating.

The primary eye irritation in rabbits for this material was determined to be an eye irritant.

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. Dispose of full vacuum cleaner bags containing dirt, carpet fibers, and used carpet cleaner with other non-recyclable trash.

14. TRANSPORTATION INFORMATION

PRODUCT LABEL: MilliCare™ Dry Carpet Cleaner (25# Pail)

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).

WHIMIS Hazard Symbols:

None



16. OTHER INFORMATION

PREPARED BY: Steven Brown
APPROVED BY: Steven Brown
TITLE: Senior Development Chemist
APPROVAL DATE: January 7, 2002
SUPERCEDES DATE: January 7, 2002
MSDS NUMBER: 820658

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 Sylvan Chemical Co., Inc. The data on this sheet are related only to the specific material designated herein. Sylvan Chemical Co., Inc. assumes no legal responsibility for use or reliance upon these data.

END OF MSDS

UNCONTROLLED DOCUMENT



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: MilliCare™ Fiber Protector
CAS Number: Blend

Company Identification

Sylvan Chemical Co., Inc.
La Grange, Georgia 30240 USA
1-888-886-2273 (For questions and emergencies)
1-800-424-9300 or 1-703-527-3887 (CHEMTREC)

PRODUCT USE:

Cleaner.

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT LISTING:

Chemical Name	Amount	CAS Number
CARBOXYLATED POLYMER SALT	5.0 - 15.0 %	N/A
POLYMETHYL METHACRYLATE	1.0 - 5.0 %	9011-14-7
POLYPERFLUOROURETHANE	0.5 - 2.0 %	
CITRIC ACID	2.0 - 4.0 %	77-92-9
WATER	70.0 - 90.0 %	7732-18-5
ANIONIC SURFACTANT	0.0 - 3.0 %	

(See Section 8 for exposure guidelines)

(See Section 15 for regulatory information)

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

May cause skin, eye, or respiratory tract irritation.

HIMIS Rating:

Health - 1
Flammability - 0
Reactivity - 0
Personal Protection Index - B

NFPA/HIMIS Definitions: (0-Lowest, 1-Slight, 2-Moderate, 3-High, 4-Extreme). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HIMIS ratings).

POTENTIAL HEALTH EFFECTS

UNCONTROLLED DOCUMENT



EYE:

Contact may cause eye irritation. Discomfort and blurring of vision may occur.

SKIN:

May cause skin irritation with discomfort or rash.

INHALATION:

Overexposure to mist or spray may cause irritation of respiratory tract. Inhalation of high concentrations of vapor may be harmful. May cause irritation of the upper respiratory passages. Irritating vapors may be formed when processed at high temperatures.

INGESTION:

Ingestion is not considered a potential route of exposure. Ingestion can cause irritation of the mouth, throat, and esophagus.

4. FIRST AID MEASURES

EYE CONTACT FIRST AID:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Contact a physician.

SKIN CONTACT FIRST AID:

Immediately flush skin with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists. Wash contaminated clothing before reuse.

INHALATION FIRST AID:

If breathing is difficult, remove to fresh air and provide oxygen. If not breathing, give artificial respiration. Contact a physician.

INGESTION FIRST AID:

If swallowed, immediately give 2 glasses of water. Contact a physician. Do not induce vomiting. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

COC Flash Point: > 93.3 C (> 199.9 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:

Heating above 200 deg C or in fire conditions toxic decomposition products may be formed. May cause severe eye, nose, throat, and lung irritation.

FIRE FIGHTING INSTRUCTIONS:

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

6. ACCIDENTAL RELEASE MEASURES

SAFEGUARDS (PERSONNEL):



Protect skin and eyes from exposure. Wear appropriate personal protective equipment. Avoid breathing vapor.

SPILL PROCEDURE:

Isolate Hazard Area. Contain spilled material. Large spillage should be dammed-off and pumped into containers. Clean up remainder by absorbent material. All waste materials should be packaged, labeled, and transported in accordance with all national, state/provincial, and local requirements.

7. HANDLING AND STORAGE

HANDLING (PERSONNEL):

Avoid prolonged contact with skin or eyes. When sampling containers use appropriate personal protective equipment. Avoid circumstances that produce respirable particles.

HANDLING (PHYSICAL ASPECTS):

Keep from freezing. Avoid temperatures above 200 deg C. Provide appropriate ventilation.

STORAGE PRECAUTIONS:

Keep container tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

Keep container tightly closed. Use only with adequate ventilation.

EYE / FACE PROTECTION REQUIREMENTS:

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

SKIN PROTECTION REQUIREMENTS:

Wear protective gloves to minimize skin contamination. When prolonged or frequently repeated contact could occur, use protective clothing impervious to this material.

RESPIRATORY PROTECTION REQUIREMENTS:

When there is potential for airborne exposures in excess of applicable limits, wear NIOSH/MSHA approved respiratory protection.

EXPOSURE GUIDELINES:

POLYMETHYL METHACRYLATE

Recommended Exposure Limit: 5 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	Liquid
COLOR:	Light Amber
ODOR:	Aromatic Odor
BOILING POINT:	100 C
SOLUBILITY IN WATER:	Complete
SPECIFIC GRAVITY:	1.03 (Water = 1)
MELTING/FREEZING POINT:	0 C
PH:	3.5 - 5
% VOLATILES:	70 %
VOLATILE ORGANIC COMPOUNDS (VOC):	None



10. STABILITY AND REACTIVITY

STABILITY:

This product is stable at ambient conditions.

POLYMERIZATION:

Hazardous polymerization will not occur.

INCOMPATIBILITY WITH OTHER MATERIALS:

Incompatible with mineral acids.

DECOMPOSITION:

Avoid temperatures above 200 deg C. Toxic decomposition products may be formed.

11. TOXICOLOGICAL INFORMATION

POLYMETHYL METHACRYLATE

Test Code: Acute Oral Toxicity

Description: LD50

Species: rats

Results: >2000 mg/kg

Test Code: Inhalation Toxicity

Description: 4 hr.

Species: rats

Results: >2 mg/L

Polyperfluorourethane

Test Code: Oral LD50

Description: oral LD-50

Species: rat

Results: 2480 mg./kg

CITRIC ACID

Test Code: Acute Oral Toxicity

Description: LD50

Species: rats

Results: 11700 mg/kg

12. ECOLOGICAL INFORMATION

CITRIC ACID

Test Code: 96-Hour Acute Aquatic Toxicity

Description: 100 hr

Species: GOLDFISH

Results: >625 mg/kg

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. TRANSPORTATION INFORMATION

PRODUCT LABEL:	MilliCare™ Fiber Protector
D.O.T. SHIPPING NAME:	Not Regulated
D.O.T. HAZARD CLASS:	Not Regulated

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).

WHMIS Hazard Symbols:

None

Canadian Disclosure List

CITRIC ACID (77-92-9)

16. OTHER INFORMATION

PREPARED BY:	Steven Brown
APPROVED BY:	Steven Brown
TITLE:	Senior Development Chemist
APPROVAL DATE:	June 9, 2000
SUPERCEDES DATE:	April 23, 1999
MSDS NUMBER:	827651

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 Sylvan Chemical Co., Inc. The data on this sheet are related only to the specific material designated herein. Sylvan Chemical Co., Inc. assumes no legal responsibility for use or reliance upon these data.

END OF MSDS

UNCONTROLLED DOCUMENT



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: MilliCare™ Gum Remover
Chemical Name: 1,1,1,2-Tetrafluoroethane
Chemical Family: Aerosol
CAS Number: 811-97-2

Company Identification

Sylvan Chemical Co., Inc.
La Grange, Georgia 30240 USA
1-888-886-2273 (For questions and emergencies)
1-800-424-9300 or 1-703-527-3887 (CHEMTREC)

PRODUCT USE:
Cleaner.

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT LISTING:

Chemical Name	Amount	CAS Number
1,1,1,2-TETRAFLUOROETHANE	100.0 %	811-97-2

(See Section 8 for exposure guidelines)

(See Section 15 for regulatory information)

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Avoid inhalation. Inhalation of high concentrations of vapor may be harmful. May cause heart irregularities, unconsciousness, or death. Liquid contact on skin may cause frostbite.

HMIS Rating:

Health - 2
Flammability - 0
Reactivity - 1

NFPA/HMIS Definitions: (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

POTENTIAL HEALTH EFFECTS

EYE:

May cause slight irritation. Not known to cause permanent injury to eye tissue.



SKIN:

Liquid contact on skin may cause frostbite.

INHALATION:

Inhalation of high concentrations of vapor may be harmful. May cause heart irregularities, unconsciousness, or death. Intentional misuse or deliberate inhalation may cause death without warning. Vapor reduces oxygen available for breathing and is heavier than air.

INGESTION:

Ingestion is not considered a potential route of exposure.

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:

In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Treat for frostbite if necessary by gently warming affected area. Wash contaminated clothing before reuse.

INHALATION FIRST AID:

If exposed to excessive levels of fumes, remove to fresh air. Contact a physician. If not breathing, give artificial respiration.

INGESTION FIRST AID:

Ingestion is not considered a potential route of exposure.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

COC Flash Point: None

TCC Flash Point: None

Autoignition Temperature: N/A

FLAMMABLE LIMITS IN AIR

LEL: None

UEL: None

EXTINGUISHING MEDIA:

Will not burn.

FIRE & EXPLOSION HAZARDS:

Exposure to temperatures above 49 deg C may cause cans to burst.

FIRE FIGHTING INSTRUCTIONS:

As in any fire, wear self-contained breathing apparatus pressure-demand MSHA/NIOSH (approved or equivalent) and full protective gear. Contain runoff water.

6. ACCIDENTAL RELEASE MEASURES

SAFEGUARDS (PERSONNEL):

Ventilate spill area. Wear appropriate personal protective equipment. Eliminate all sources of ignition - heat, sparks, flame, electricity, impact and friction. Protect skin and eyes from exposure.

UNCONTROLLED DOCUMENT



SPILL PROCEDURE:

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

INITIAL CONTAINMENT:

Contain spilled material. Allow propellant to evaporate. Wash area to prevent slipping. Do not allow material to enter soil or surface water. All waste materials should be packaged, labeled, and transported in accordance with all national, state/provincial, and local requirements.

7. HANDLING AND STORAGE

HANDLING (PHYSICAL ASPECTS):

Keep out of reach of children. Store in a cool dry place. Eliminate all sources of ignition - heat, sparks, flame, electricity, impact and friction. Do not store at temperatures above 49°C.

STORAGE PRECAUTIONS:

Eliminate all sources of ignition - heat, sparks, flame, electricity, impact and friction.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

Use only with adequate ventilation.

EYE / FACE PROTECTION REQUIREMENTS:

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

SKIN PROTECTION REQUIREMENTS:

None needed for proper use in accordance with label directions. When prolonged or frequently repeated contact could occur, use protective clothing impervious to this material.

RESPIRATORY PROTECTION REQUIREMENTS:

When there is potential for airborne exposures in excess of applicable limits, wear NIOSH/MSHA approved respiratory protection.

EXPOSURE GUIDELINES:

No Information Available.

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	Aerosol
COLOR:	Colorless
ODOR:	Faint ether-like odor
BOILING POINT:	-15 C
VAPOR DENSITY:	5.05 (Air = 1)
SPECIFIC GRAVITY:	1.03 (Water = 1)
PH:	Not Applicable
% VOLATILES:	100 %
VOLATILE ORGANIC COMPOUNDS (VOC):	None

10. STABILITY AND REACTIVITY

STABILITY:

UNCONTROLLED DOCUMENT



This product is stable at ambient conditions.

POLYMERIZATION:

Hazardous polymerization will not occur.

INCOMPATIBILITY WITH OTHER MATERIALS:

Incompatible with alkaline and alkaline earth metals.

DECOMPOSITION:

This material can decompose by high temperatures forming hydrofluoric acid and possibly carbonyl fluoride.

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. TRANSPORTATION INFORMATION

PRODUCT LABEL:	MilliCare™ Gum Remover
D.O.T. SHIPPING NAME:	1,1,1,2-Tetrafluoroethane
TECHNICAL SHIPPING NAME:	1,1,1,2-Tetrafluoroethane, 2.2, UN 3159
D.O.T. HAZARD CLASS:	2.2
UN NUMBER:	3159
D.O.T. LABEL:	Non-flammable gas
D.O.T. PLACARD:	Non-flammable gas (refrigerant gas)

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).

WHMIS Hazard Symbols:

None

16. OTHER INFORMATION

PREPARED BY:	John Bruhnke
APPROVED BY:	Steven Brown



TITLE: Senior Development Chemist
APPROVAL DATE: August 27, 2001
SUPERCEDES DATE: August 27, 2001

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 Sylvan Chemical Co., Inc. The data on this sheet are related only to the specific material designated herein. Sylvan Chemical Co., Inc. assumes no legal responsibility for use or reliance upon these data.

END OF MSDS

UNCONTROLLED DOCUMENT



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: MilliCare™ Odor Neutralizer

Company Identification

Sylvan Chemical Co., Inc.
La Grange, Georgia 30240 USA
1-888-886-2273 (For questions and emergencies)
1-800-424-9300 or 1-703-527-3887 (CHEMTREC)

PRODUCT USE:

Cleaner.

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT LISTING:

Chemical Name	Amount	CAS Number
WATER	> 98.0 %	7732-18-5
PRPRIETARY NON-HAZARDOUS STABILIZER	1.0 %	
CHLORINE DIOXIDE	< 0.9 %	10049-04-4

(See Section 8 for exposure guidelines)

(See Section 15 for regulatory information)

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

The health hazards of this product should be low under normal industrial and commercial uses. May cause skin, eye, or respiratory tract irritation. May be harmful if swallowed.

HMIS Rating:

Health - 1
Flammability - 0
Reactivity - 0
Personal Protection Index - B

NFPA/HMIS Definitions: (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

POTENTIAL HEALTH EFFECTS

EYE:

May cause eye irritation. Not known to cause permanent injury to eye tissue.



SKIN:

Prolonged or repeated skin contact may cause irritation.

INHALATION:

No information regarding inhalation available.

INGESTION:

May be harmful if swallowed. No hazards expected in normal use.

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. 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. Get medical attention if cough or other symptoms develop.

INGESTION FIRST AID:

If swallowed, immediately give 2 glasses of water. Contact a physician. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

COC Flash Point: N/A

Autoignition Temperature: N/A

FLAMMABLE LIMITS IN AIR

LEL: %

UEL: %

EXTINGUISHING MEDIA:

Water, carbon dioxide, foam or dry powder. Use water spray to cool fire exposed containers.

FIRE & EXPLOSION HAZARDS:

No known unusual hazards in a fire/explosion situation.

FIRE FIGHTING INSTRUCTIONS:

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

6. ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURE:

Clean up area by absorbent material. All waste materials should be packaged, labeled, and transported in accordance with all national, state/provincial, and local requirements.

INITIAL CONTAINMENT:

Contain spilled material. All waste materials should be packaged, labeled and transported in accordance with all national,



state/provincial, and local requirements.

7. HANDLING AND STORAGE

RECOMMENDED STORAGE TEMPERATURE

Minimum: 0.0 C (32.0 F)
Maximum: 48.9 C (120.0 F)

HANDLING (PERSONNEL):

Avoid prolonged contact with skin or eyes. Wash hands thoroughly after handling.

STORAGE PRECAUTIONS:

Keep container tightly closed. Avoid extreme temperatures. Avoid contact with Acidic conditions.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

Good general ventilation should be sufficient to control airborne levels.

EYE /FACE PROTECTION REQUIREMENTS:

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

SKIN PROTECTION REQUIREMENTS:

When prolonged or frequently repeated contact could occur, use protective clothing impervious to this material.

RESPIRATORY PROTECTION REQUIREMENTS:

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

EXPOSURE GUIDELINES:

CHLORINE DIOXIDE

OSHA PEL: .1 ppm, .3 mg/m³
OSHA TWA: .1 ppm, .3 mg/m³
OSHA STEL: .3 ppm

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	Liquid
COLOR:	Colorless
ODOR:	Faint Odor
BOILING POINT:	212 F
VAPOR PRESSURE:	<30 Kg/cm ²
VAPOR DENSITY:	<1 (Air = 1)
SOLUBILITY IN WATER:	Complete
SPECIFIC GRAVITY:	1.05 (Water = 1)
MELTING/FREEZING POINT:	32 F
PH:	Approx. 9.0
% VOLATILES:	100 %
VOLATILE ORGANIC COMPOUNDS (VOC):	0

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 Acidic conditions.

DECOMPOSITION:

Decomposition will not occur if handled and stored properly.

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL TESTING:

The acute oral toxicity (LD50) in rats for this material was determined to be 1.55 grams/kg.

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. Uncleaned empty containers should be disposed of in the same manner as the contents.

14. TRANSPORTATION INFORMATION

PRODUCT LABEL:	MilliCare™ Odor Neutralizer
D.O.T. SHIPPING NAME:	Not Regulated
D.O.T. HAZARD CLASS:	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).

WHMIS Hazard Symbols:

None

Clean Air Act - Section 112

CHLORINE DIOXIDE (10049-04-4)

Title V

CHLORINE DIOXIDE (10049-04-4)



NJ Right to Know List

CHLORINE DIOXIDE (10049-04-4)

PA Hazardous Substance List

CHLORINE DIOXIDE (10049-04-4)

16. OTHER INFORMATION

REASON FOR ISSUE:	New MSDS
PREPARED BY:	Steven Brown
APPROVED BY:	Steven Brown
TITLE:	Senior Development Chemist
APPROVAL DATE:	December 11, 2000
SUPERCEDES DATE:	June 22, 2000

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 Sylvan Chemical Co., Inc. The data on this sheet are related only to the specific material designated herein. Sylvan Chemical Co., Inc. assumes no legal responsibility for use or reliance upon these data.

END OF MSDS



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: MilliCare™ Oxy Spotter

Company Identification

Sylvan Chemical Co., Inc.

La Grange, Georgia 30240 USA

1-888-886-2273 (For questions and emergencies)

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

PRODUCT USE:

Cleaner.

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT LISTING:

Chemical Name	Amount	CAS Number
HYDROGEN PEROXIDE (H2O2)	3.0 - 7.0 %	7722-84-1

(See Section 8 for exposure guidelines)

(See Section 15 for regulatory information)

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Can cause eye irritation. Avoid eye contact. May cause skin or respiratory tract irritation. May be harmful if swallowed.

HMIS Rating:

Health - 1

Flammability - 0

Reactivity - 0

Personal Protection Index - B

NFPA/HMIS Definitions: (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

POTENTIAL HEALTH EFFECTS

EYE:

Can cause eye irritation.

SKIN:

Prolonged or repeated contact may irritate the skin and cause a skin rash (dermatitis).

UNCONTROLLED DOCUMENT



INHALATION:

May cause respiratory tract irritation.

INGESTION:

May be harmful if swallowed.

4. FIRST AID MEASURES

EYE CONTACT FIRST AID:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Obtain medical attention immediately.

SKIN CONTACT FIRST AID:

Wash affected area with large amounts of soap and water. 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. Get medical attention if cough or other symptoms develop.

INGESTION FIRST AID:

If swallowed, immediately give 2 glasses of water. Contact a physician. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

COC Flash Point: N/A

Autoignition Temperature: N/A

FLAMMABLE LIMITS IN AIR

LEL: N/A

UEL: N/A

EXTINGUISHING MEDIA:

Water, carbon dioxide, foam or dry powder. Use water spray to cool fire exposed containers.

FIRE & EXPLOSION HAZARDS:

No known unusual hazards in a fire/explosion situation.

FIRE FIGHTING INSTRUCTIONS:

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

6. ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURE:

Clean up area by absorbent material. All waste materials should be packaged, labeled, and transported in accordance with all national, state/provincial, and local requirements.

INITIAL CONTAINMENT:

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



7. HANDLING AND STORAGE

RECOMMENDED STORAGE TEMPERATURE

Minimum: 0.0 C (32.0 F)
Maximum: 48.9 C (120.0 F)

HANDLING (PERSONNEL):

Avoid prolonged contact with skin or eyes. Wash hands thoroughly after handling.

STORAGE PRECAUTIONS:

Keep container tightly closed. Avoid extreme temperatures. Avoid contact with Acidic conditions.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

Good general ventilation should be sufficient to control airborne levels.

EYE / FACE PROTECTION REQUIREMENTS:

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

SKIN PROTECTION REQUIREMENTS:

When prolonged or frequently repeated contact could occur, use protective clothing impervious to this material.

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:	Colorless
ODOR:	Faint Odor
BOILING POINT:	212 F
SOLUBILITY IN WATER:	Complete
SPECIFIC GRAVITY:	1.015 (Water = 1)
MELTING/FREEZING POINT:	32 F
PH:	Approx. 8
% VOLATILES:	100 %
VOLATILE ORGANIC COMPOUNDS (VOC):	0

10. STABILITY AND REACTIVITY

STABILITY:

This product is stable at ambient conditions.

POLYMERIZATION:

Hazardous polymerization will not occur.

INCOMPATIBILITY WITH OTHER MATERIALS:

Avoid contact reducing agents, soft metals and oxidizers.



DECOMPOSITION:

Decomposition will not occur if handled and stored properly.

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL TESTING:

The acute oral toxicity (LD50) in rats for this material was determined to be 1.55 grams/kg.

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. Uncleaned empty containers should be disposed of in the same manner as the contents.

14. TRANSPORTATION INFORMATION

PRODUCT LABEL:	MilliCare™ Oxy Spotter
D.O.T. SHIPPING NAME:	Not Regulated
D.O.T. HAZARD CLASS:	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).

WHMIS Hazard Symbols:

Class D-2(B) - Materials Causing Other Toxic Effects



Canadian Disclosure List

HYDROGEN PEROXIDE (H2O2) (7722-84-1)

EEC Symbols and Indications of Danger:

Irritant (Xi)





R-Phrases:

R36/38 - Irritating to eyes and skin.

S-Phrases:

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37 - Wear suitable gloves.

S24/25 - Avoid contact with skin and eyes.

NJ Right to Know List

HYDROGEN PEROXIDE (H₂O₂) (7722-84-1)

PA Hazardous Substance List

HYDROGEN PEROXIDE (H₂O₂) (7722-84-1)

16. OTHER INFORMATION

REASON FOR ISSUE:	New MSDS
PREPARED BY:	Steven Brown
APPROVED BY:	Steven Brown
TITLE:	Senior Development Chemist
APPROVAL DATE:	January 21, 2003
SUPERCEDES DATE:	January 16, 2003

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 Sylvan Chemical Co., Inc. The data on this sheet are related only to the specific material designated herein. Sylvan Chemical Co., Inc. assumes no legal responsibility for use or reliance upon these data.

END OF MSDS



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: MilliCare™ Panel and Upholstery Cleaner
CAS Number: Blend

Company Identification

Sylvan Chemical Co., Inc.
La Grange, Georgia 30240 USA
1-888-886-2273 (For questions and emergencies)
1-800-424-9300 or 1-703-527-3887 (CHEMTREC)

PRODUCT USE:

Cleaner.

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT LISTING:

Chemical Name	Amount	CAS Number
OCTYL SODIUM SULFATE	< 15.0 %	142-31-4
CARBONIC ACID, SODIUM SALT (2:3)	< 10.0 %	533-96-0
SODIUM CARBONATE	< 5.0 %	497-19-8
BENZENESULFONIC ACID, DECYL(SULFOPHENOXY)-, DISOD	< 5.0 %	36445-71-3
BENZENESULFONIC ACID, OXYBIS[DECYL-, DISODIUM SAL	< 5.0 %	70146-13-3
WATER	30.0 - 90.0 %	7732-18-5

(See Section 8 for exposure guidelines)

(See Section 15 for regulatory information)

SARA 311 Categories:

Immediate (Acute) Health Effects: Yes
Delayed (Chronic) Health Effects: No
Fire Hazard: No
Sudden Release Of Pressure Hazard: No
Reactivity Hazard: No

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

May cause skin, eye, or respiratory tract irritation. May be harmful if swallowed.

HMIS Rating:

Health - 2
Flammability - 0
Reactivity - 0
Personal Protection Index - B



NFPA/HMIS Definitions: (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

POTENTIAL HEALTH EFFECTS

EYE:

Can cause eye irritation.

SKIN:

Prolonged or repeated skin contact may cause irritation. May cause skin sensitization upon repeated exposure.

INHALATION:

May cause irritation of the upper respiratory passages. Inhalation of high concentrations of vapor may be harmful.

INGESTION:

Harmful if swallowed. May cause nausea, vomiting and diarrhea.

4. FIRST AID MEASURES

EYE CONTACT FIRST AID:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Contact a physician.

SKIN CONTACT FIRST AID:

Wash affected area with large amounts of water.

INHALATION FIRST AID:

If exposed to excessive levels of fumes, remove to fresh air. Contact a physician.

INGESTION FIRST AID:

Do not induce vomiting. Contact a physician.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

COC Flash Point: N/A

Autoignition Temperature: N/A

FLAMMABLE LIMITS IN AIR

LEL: N/A

UEL: N/A

EXTINGUISHING MEDIA:

Carbon dioxide, foam, or dry powder.

6. ACCIDENTAL RELEASE MEASURES

SAFEGUARDS (PERSONNEL):

Floor may become slippery. Isolate Hazard Area. Ventilate spill area.

SPILL PROCEDURE:

Contain spilled material. Clean up area by absorbent material. All waste materials should be packaged, labeled, and transported in accordance with all national, state/provincial, and local requirements.



INITIAL CONTAINMENT:

Contain spilled material. Absorb spills with inert material.

7. HANDLING AND STORAGE

HANDLING (PERSONNEL):

Wash hands thoroughly after handling.

HANDLING (PHYSICAL ASPECTS):

Keep out of reach of children. Keep container closed to avoid contamination.

STORAGE PRECAUTIONS:

Store in a cool dry place. Keep container tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

Good general ventilation should be sufficient to control airborne levels.

EYE / FACE PROTECTION REQUIREMENTS:

Chemical goggles are recommended to avoid contact with eyes.

SKIN PROTECTION REQUIREMENTS:

Wear protective gloves to minimize skin contamination.

RESPIRATORY PROTECTION REQUIREMENTS:

Atmospheric levels should be maintained below the exposure guideline.

EXPOSURE GUIDELINES:

No Information Available.

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	Liquid
COLOR:	Light Amber
ODOR:	Slight
BOILING POINT:	100-101 C
VAPOR PRESSURE:	Water psia
VAPOR DENSITY:	Water (Air = 1)
SOLUBILITY IN WATER:	Soluble
SPECIFIC GRAVITY:	1.10-1.11 (Water = 1)
MELTING/FREEZING POINT:	N/A C
PH:	9.6-9.9
% VOLATILES:	71 %
VOLATILE ORGANIC COMPOUNDS (VOC):	<1 %

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 acids and strong oxidizing agents.

DECOMPOSITION:

Decomposition may produce fumes, smoke, oxides of carbon and hydrocarbons.

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. TRANSPORTATION INFORMATION

PRODUCT LABEL:	MilliCare™ Panel and Upholstery Cleaner
D.O.T. SHIPPING NAME:	Not Regulated

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).

WHMIS Hazard Symbols:

Class D-2(B) - Materials Causing Other Toxic Effects



Canadian Disclosure List

SODIUM CARBONATE (497-19-8)

16. OTHER INFORMATION



PREPARED BY: John Bruhnke
APPROVED BY: Steven Brown
TITLE: Senior Development Chemist
APPROVAL DATE: June 27, 2000
SUPERCEDES DATE: June 9, 2000
MSDS NUMBER: 827633

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 Sylvan Chemical Co., Inc. The data on this sheet are related only to the specific material designated herein. Sylvan Chemical Co., Inc. assumes no legal responsibility for use or reliance upon these data.

END OF MSDS



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: MilliCare Pre-Mist Concentrate NXT
CAS Number: Blend

Company Identification

Sylvan Chemical Co., Inc.
La Grange, Georgia 30240 USA
1-888-886-2273 (For product information)
1-888-886-2273 (For emergencies)

PRODUCT USE:
Cleaner.

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT LISTING:

Chemical Name	Amount	CAS Number
DODECYL SODIUM SULFATE	2.4 %	151-21-3
PROPRIETARY SURFACTANT BLEND	100.0 %	Blend

(See Section 8 for exposure guidelines)

(See Section 15 for regulatory information)

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

May cause eye irritation. May cause skin irritation.

HMIS Rating:

Health - 1
Flammability - 0
Reactivity - 0
Personal Protection Index - B

NFPA/HMIS Definitions: (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

POTENTIAL HEALTH EFFECTS

EYE:

May cause eye irritation.

SKIN:

UNCONTROLLED DOCUMENT



Prolonged or repeated skin contact may cause irritation.

INHALATION:

No information regarding inhalation available.

INGESTION:

No information regarding ingestion available.

CARCINOGENICITY INFORMATION:

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

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:

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. Contact a physician.

INGESTION FIRST AID:

Contact a physician. Do not induce vomiting.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

COC Flash Point: N/A

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:

As in any fire, wear self-contained breathing apparatus pressure-demand MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

SAFEGUARDS (PERSONNEL):

Wear appropriate personal protective equipment.



SPILL PROCEDURE:

Contain spilled material. Large spillage should be dammed-off and pumped into containers. All waste materials should be packaged, labeled, and transported in accordance with all national, state/provincial, and local requirements.

INITIAL CONTAINMENT:

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

7. HANDLING AND STORAGE

RECOMMENDED STORAGE TEMPERATURE

Minimum: 0.0 C (32.0 F)

Maximum: 48.9 C (120.0 F)

HANDLING (PERSONNEL):

Wear appropriate personal protective equipment. Wash hands thoroughly after handling.

HANDLING (PHYSICAL ASPECTS):

Keep from freezing. Keep container closed to avoid contamination.

STORAGE PRECAUTIONS:

Keep out of reach of children. Keep from freezing. Keep container tightly closed. Store in a well ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

Good general ventilation should be sufficient to control airborne levels.

EYE / FACE PROTECTION REQUIREMENTS:

Wear safety glasses.

SKIN PROTECTION REQUIREMENTS:

Wear protective gloves to minimize skin contamination. Wear appropriate personal protective equipment.

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:	Light Blue
ODOR:	Mild odor
SOLUBILITY IN WATER:	Complete
SPECIFIC GRAVITY:	1.00 (typical) (Water = 1)
PH:	8.0 typical
% VOLATILES:	94 %
VISCOSITY:	5-15 cps
VOLATILE ORGANIC COMPOUNDS (VOC):	<1%



10. STABILITY AND REACTIVITY

STABILITY:

This compound is stable at ambient conditions.

POLYMERIZATION:

Hazardous polymerization will not occur.

INCOMPATIBILITY WITH OTHER MATERIALS:

Avoid contact with strong oxidizing agents. Keep from freezing.

DECOMPOSITION:

Decomposition may produce fumes, smoke, oxides of carbon and hydrocarbons.

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL TESTING:

Based on testing of similar materials, a low health risk is to be expected with this product.

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. Uncleaned empty containers should be disposed of in the same manner as the contents.

14. TRANSPORTATION INFORMATION

PRODUCT LABEL: MilliCare Pre-Mist Concentrate NXT

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).

WHMIS Hazard Symbols:

None

Canadian Disclosure List

DODECYL SODIUM SULFATE (151-21-3)

16. OTHER INFORMATION



PREPARED BY: Steven Brown
APPROVED BY: John Bruhnke
TITLE: Regulatory Specialist
APPROVAL DATE: April 17, 2002
SUPERCEDES DATE: April 17, 2002
MSDS NUMBER: 827020

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 Sylvan Chemical Co., Inc. The data on this sheet are related only to the specific material designated herein. Sylvan Chemical Co., Inc. assumes no legal responsibility for use or reliance upon these data.

END OF MSDS

UNCONTROLLED DOCUMENT



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: MilliCare™ Solvent Spotter A
CAS Number: Blend

Company Identification

Sylvan Chemical Co., Inc.
La Grange, Georgia 30240 USA
1-888-886-2273 (For questions and emergencies)
1-800-424-9300 or 1-703-527-3887 (CHEMTREC)

PRODUCT USE:

Cleaner.

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT LISTING:

Chemical Name	Amount	CAS Number
NAPHTHA, PETROLEUM, HYDROTREATED HEAVY	< 75.0 %	64742-48-9
DIPROPYLENE GLYCOL MONOMETHYL ETHER	< 30.0 %	34590-94-8
OXIRANE, METHYL-, POLYMER WITH OXIRANE, MONOHEXYL	< 5.0 %	52232-09-4
OCTYL ALCOHOL, PROPOXYLATED, ETHOXYLATED	< 5.0 %	37311-02-7
DECYL ALCOHOL, PROPOXYLATED, ETHOXYLATED	< 5.0 %	37251-67-5

(See Section 8 for exposure guidelines)

(See Section 15 for regulatory information)

SARA 311 Categories:

Immediate (Acute) Health Effects: Yes
Delayed (Chronic) Health Effects: No
Fire Hazard: Yes
Sudden Release Of Pressure Hazard: No
Reactivity Hazard: No

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Combustible Liquid. May cause skin, eye, or respiratory tract irritation. May be harmful if swallowed.

HMIS Rating:

Health - 2
Flammability - 2
Reactivity - 0
Personal Protection Index - B

UNCONTROLLED DOCUMENT



NFPA/HMIS Definitions: (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

POTENTIAL HEALTH EFFECTS

EYE:

Can cause eye irritation.

SKIN:

May cause skin irritation with discomfort or rash.

INHALATION:

May cause irritation of the upper respiratory passages.

INGESTION:

Harmful if swallowed. May cause nausea, vomiting and diarrhea.

4. FIRST AID MEASURES

EYE CONTACT FIRST AID:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Contact a physician.

SKIN CONTACT FIRST AID:

Wash affected area with large amounts of soap and water.

INHALATION FIRST AID:

If exposed to excessive levels of fumes, remove to fresh air. Contact a physician.

INGESTION FIRST AID:

Do not induce vomiting. Contact a physician. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

COC Flash Point: 42.8 C (109.0 F)

TCC Flash Point: 42.8 C (109.0 F)

Autoignition Temperature: N/A

FLAMMABLE LIMITS IN AIR

LEL: N/A

UEL: N/A

EXTINGUISHING MEDIA:

Carbon dioxide, foam, or dry powder.

FIRE FIGHTING INSTRUCTIONS:

As in any fire, wear self-contained breathing apparatus pressure-demand MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

SAFEGUARDS (PERSONNEL):

UNCONTROLLED DOCUMENT



Isolate Hazard Area. Ventilate spill area. Floor may become slippery.

SPILL PROCEDURE:

Contain spilled material. Clean up area by absorbent material. All waste materials should be packaged, labeled, and transported in accordance with all national, state/provincial, and local requirements.

INITIAL CONTAINMENT:

Isolate Hazard Area. Contain spilled material. Absorb spills with inert material. All waste materials should be packaged, labeled, and transported in accordance with all national, state/provincial, and local requirements.

7. HANDLING AND STORAGE

HANDLING (PERSONNEL):

Wash hands thoroughly after handling.

HANDLING (PHYSICAL ASPECTS):

Keep out of reach of children. Keep container closed to avoid contamination.

STORAGE PRECAUTIONS:

Store in a cool dry place. Keep container tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

Good general ventilation should be sufficient to control airborne levels.

EYE / FACE PROTECTION REQUIREMENTS:

Chemical goggles are recommended to avoid contact with eyes.

SKIN PROTECTION REQUIREMENTS:

Wear protective gloves to minimize skin contamination.

RESPIRATORY PROTECTION REQUIREMENTS:

Atmospheric levels should be maintained below the exposure guideline.

EXPOSURE GUIDELINES:

No Information Available.

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	Liquid
COLOR:	Colorless
ODOR:	Slight
BOILING POINT:	86-181 C
SOLUBILITY IN WATER:	Negligible
SPECIFIC GRAVITY:	0.78-0.82 (Water = 1)
MELTING/FREEZING POINT:	N/A C
PH:	Not Applicable
% VOLATILES:	95 %
VOLATILE ORGANIC COMPOUNDS (VOC):	25 %



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 oxidizing agents.

DECOMPOSITION:

Decomposition may produce fumes, smoke, oxides of carbon and hydrocarbons.

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. TRANSPORTATION INFORMATION

PRODUCT LABEL:	MilliCare™ Solvent Spotter A
D.O.T. SHIPPING NAME:	Flammable liquid, n.o.s.
TECHNICAL SHIPPING NAME:	Flammable liquid, n.o.s.,(contains naphtha (petroleum), hydrotreated heavy), 3, UN 1993, III
D.O.T. HAZARD CLASS:	3
UN NUMBER:	1993
D.O.T. LABEL:	Flammable
D.O.T. PLACARD:	Flammable
PACKAGE CLASS:	PG III

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).

WHMIS Hazard Symbols:

Class B-3 - Flammable and Combustible Material, Class D-2(B) - Materials Causing Other Toxic Effects





Canadian Disclosure List

DIPROPYLENE GLYCOL MONOMETHYL ETHER (34590-94-8)

NJ Right to Know List

DIPROPYLENE GLYCOL MONOMETHYL ETHER (34590-94-8)

PA Hazardous Substance List

DIPROPYLENE GLYCOL MONOMETHYL ETHER (34590-94-8)

16. OTHER INFORMATION

PREPARED BY:	John Bruhnke
APPROVED BY:	Steven Brown
TITLE:	Senior Development Chemist
APPROVAL DATE:	June 27, 2000
SUPERCEDES DATE:	June 9, 2000
MSDS NUMBER:	827661

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 Sylvan Chemical Co., Inc. The data on this sheet are related only to the specific material designated herein. Sylvan Chemical Co., Inc. assumes no legal responsibility for use or reliance upon these data.

END OF MSDS





Spartan Chemical Company, Inc.

Material Safety Data Sheet

SECTION I: PRODUCT INFORMATION

Product Name or Number (as it appears on label):

SHINELINE EMULSIFIER PLUS

Product Number: 0084

Product Division:

Janitorial

Spartan Chemical Company, Inc.

1110 Spartan Drive

Maumee OH 43537

Product/Technical
Information: 1-(800)-537-8990

Medical Emergency: 1-(888)-314-6171 (24 hours)

Chemical Leak/Spill
Emergency: CHEMTREC 1-(800) 424-9300 (24 hours)

Shipping Description:		Compounds, cleaning liquid, 8, NA 1760, II, (contains sodium hydroxide)	
NFPA Ratings:		HMIS Ratings:	
Health:	3 - Serious	Health:	*3 - Serious; Chronic Hazard
Fire:	0 - Minimal	Fire:	0 - Minimal
Reactivity:	0 - Minimal	Reactivity:	0 - Minimal
		Pers. Prot. Equip.:	See Section VIII

SECTION II: HAZARDOUS INGREDIENTS

(Listed when present at 1% or greater, carcinogens at 0.1% or greater) All component chemicals are listed or exempted from listing on the "TSCA Inventory" of chemical substances maintained by the U.S. Environmental Protection Agency.

Chemical Name(s)	% W	CAS Registry No.	Table Z- 1 - A			Carcinogen
			TWA mg/m ³	STEL mg/m ³	CEILING mg/m ³	
*2-Butoxyethanol	28	111-76-2	120 (skin)	Not Established	Not Established	No
Monoethanolamine	05-10	141-43-5	8	15	Not Established	No
Sodium xylene sulfonate	01-05	1300-72-7	Not Established	Not Established	Not Established	No
Sodium metasilicate	01-05	6834-92-0	Not Established	Not Established	Not Established	No
Sodium hydroxide	01-05	1310-73-2	2	Not Established	Not Established	No
Ethoxylated alcohols phosphate ester	01-05	68130-47-2	Not Established	Not Established	Not Established	No

Comment: *This substance is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (SARA) and of 40 CFR 372.

▼ SECTION III: PHYSICAL DATA

Boiling Point:	200 °F	Vapor Pressure:	Unknown
Vapor Density (AIR = 1):	Unknown	Solubility in Water:	Complete
pH:	13.5-13.7	Specific Gravity (H ₂ O=1):	1.02
Evaporation Rate (but.ace.=1):	<1	Percent Solid by Weight:	8-9
Physical State:	Liquid		
Appearance & Odor:	Clear liquid, fresh fragrance		

▼ SECTION IV: FIRE & EXPLOSIVE HAZARD DATA

Flash Point:	> 200°F	Method Used:	ASTM-D56
Flammable Limits:	N/A	Flame Extension:	N/A
Extinguishing Media:	N/A		
Special Fire Fighting Procedures:	N/A		
Unusual Fire & Explosive Hazards:	N/A		

▼ SECTION V: HEALTH HAZARD DATA

Threshold Limit Value:	Not Established	Primary Routes of Entry:	Inhalation, Skin Contact, Eyes & Oral
Effects of Overexposure-Conditions to Avoid:	<p>CORROSIVE:</p> <p>HARMFUL TO EYES: Causes severe eye damage or irritation with symptoms of pain, redness, swelling of the conjunctiva and possible permanent corneal damage.</p> <p>HARMFUL TO SKIN: Causes severe skin damage or irritation with symptoms of pain, redness and chemical burns. Harmful contact may not cause immediate pain. Repeated contact may cause a dermatitis. Harmful if absorbed through the skin.</p> <p>HARMFUL OR FATAL IF SWALLOWED: Causes damage or chemical burns to esophagus and mucous membranes with symptoms of pain, nausea, vomiting and diarrhea. Aspiration of product into the lungs may occur during ingestion or vomiting, resulting in lung injury.</p> <p>HARMFUL IF INHALED: Breathing product vapor or mist may cause irritation or damage of the respiratory tract, with symptoms of nasal discomfort and discharge with chest pain and coughing.</p> <p>Contains 2-butoxyethanol which may cause central nervous system depression with symptoms such as headache; dizziness; nausea and drowsiness. Exposure to 2-butoxyethanol may cause blood cell; liver and kidney damage based on animal data.</p> <p>Contains monoethanolamine which may cause liver and kidney damage with repeated exposure.</p> <p>Do not get in eyes, on skin or clothing. Avoid breathing product vapor or mist. Do not swallow. Use with adequate ventilation. Wash thoroughly after handling.</p>		
Conditions Aggravated by Use:	Preexisting skin; eye and respiratory disorders.		

Emergency & First Aid Procedures:

Eyes:	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact
-------	---

	lenses. Call a poison control center or doctor for treatment advice.
Skin:	Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a poison control center or doctor for treatment advice. wash contaminated clothing before reuse. Destroy contaminated shoes.
Ingestion:	Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting. Drink one or two glasses of water to dilute product. Do not give anything by mouth to an unconscious person.
Inhalation:	In case of respiratory irritation or dizziness; move person to fresh air. If not breathing; give artificial respiration. If breathing is difficult; give oxygen. Call a poison control center or doctor for treatment advice.

▼ SECTION VI: REACTIVITY DATA

Stability:	Stable	Incompatible Materials:	Strong acids and oxidizing agents
Hazardous Decomposition Products:	None known	Hazardous Polymerization:	Will Not Occur

▼ SECTION VII: SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:	Contain large spills and transfer the material to appropriate containers for reclamation or disposal. Absorb remaining material or small spills with an inert material and dispose in accordance with federal, state and local regulations.
Waste Disposal Method:	Assure conformance with federal, state and local regulations.

▼ SECTION VIII: SPECIAL PROTECTION INFORMATION

Respiratory Protection:	If exposure limits are exceeded (see Section II) or if respiratory irritation occurs, the use of an appropriate NIOSH approved respirator is recommended.
Ventilation:	Provide good general ventilation. Local exhaust ventilation may be necessary for some operations.
Protective Gloves(Specify Type):	Solvent/alkali resistant gloves such as neoprene, nitrile or natural rubber/ latex are recommended.
Eye Protection(Specify Type):	Splash goggles are recommended to prevent eye contact.
Other Protective Equipment:	Solvent /alkali resistant boots are recommended. Use of impervious apron, face shield and other protective equipment should be considered in order to prevent or minimize contact with this product. Eye wash stations and washing facilities should be readily accessible. See 29 CFR 1910.132-138.

▼ SECTION IX: SPECIAL PRECAUTIONS

Precautions; Handling & Storing:	Keep container tightly closed. Store in a cool, dry area. Do not freeze. Do not store above 120°F. Do not mix with other chemicals. Keep out of reach of children.
Other Precautions:	California Proposition 65: WARNING: This product contains the following chemicals known to the State of California to cause cancer or birth defects or other reproductive harm: Ethylene oxide; CAS No. 75-21-8 (Trace); Dioxane; CAS No. 123-91-1 (Trace); Acetaldehyde; CAS No. 75-07-0 (Trace)

© SCC 04/04/2003
SHINELINE EMULSIFIER PLUS

Name: Ronald T. Cook
Effective Date: 04/04/2003

Title: Manager, Regulatory Affairs
Supercedes: 03/01/2002

Ref: 29 CFR 1910.1200 (OSHA) Changes: Update Section II

This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained herein. Actual conditions of use and handling are beyond sellers control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State and Local laws and regulations.



Spartan Chemical Company, Inc.

Material Safety Data Sheet

SECTION I: PRODUCT INFORMATION

Product Name or Number (as it appears on label):

TOUGH ON GREASE

Product Number: 2034

Spartan Chemical Company, Inc.

1110 Spartan Drive

Maumee OH 43537

Product Division:

JanitorialProduct/Technical
Information: 1-(800)-537-8990

Medical Emergency: 1-(888)-314-6171 (24 hours)

Chemical Leak/Spill
Emergency: CHEMTREC 1-(800) 424-9300 (24 hours)

Shipping Description:		Cleaning compounds, liquid, n.o.s.	
NFPA Ratings:		HMIS Ratings:	
Health:	1- Slight	Health:	1- Slight
Fire:	0 - Minimal	Fire:	0 - Minimal
Reactivity:	0 - Minimal	Reactivity:	0 - Minimal
		Pers. Prot. Equip.:	B - Safety Glasses; gloves

SECTION II: HAZARDOUS INGREDIENTS

(Listed when present at 1% or greater, carcinogens at 0.1% or greater) All component chemicals are listed or exempted from listing on the "TSCA Inventory" of chemical substances maintained by the U.S. Environmental Protection Agency.

Chemical Name(s)	% W	CAS Registry No.	Table Z- 1 - A			Carcinogen
			TWA mg/m ³	STEL mg/m ³	CELING mg/m ³	
Dipropylene glycol n-propyl ether	<5	29911-27-1	Not Established	Not Established	Not Established	No

SECTION III: PHYSICAL DATA

Boiling Point:	212 °F	Vapor Pressure:	18 mm Hg @ 75°F
Vapor Density (AIR = 1):	Unknown	Solubility in Water:	Complete
pH:	11.7-12.3	Specific Gravity (H ₂ O=1):	1.04
Evaporation Rate (but.ace.=1):	<1	Percent Solid by Weight:	5-10
Physical State:	Liquid		
Appearance & Odor:	Clear, non-viscous, mild solvent odor		

▼ **SECTION IV: FIRE & EXPLOSIVE HAZARD DATA**

Flash Point:	None	Method Used:	ASTM-D56
Flammable Limits:	N/A	Flame Extension:	N/A
Extinguishing Media:	N/A		
Special Fire Fighting Procedures:	N/A		
Unusual Fire & Explosive Hazards:	N/A		

▼ **SECTION V: HEALTH HAZARD DATA**

Threshold Limit Value:	Not Established	Primary Routes of Entry:	Inhalation, Skin Contact
Effects of Overexposure-Conditions to Avoid:	May cause skin and eye irritation. Avoid prolonged skin contact and inhalation of vapors or mist.		
Conditions Aggravated by Use:	Unknown		

Emergency & First Aid Procedures:

Eyes:	In case of contact; irrigate well with water for at least 15 minutes. Remove contact lenses. If irritated; call a physician.
Skin:	In case of skin contact flush well with water for at least 15 minutes.
Ingestion:	If swallowed; do NOT induce vomiting. Give large quantities of water. Contact a physician immediately. Never give anything by mouth to an unconscious person.

▼ **SECTION VI: REACTIVITY DATA**

Stability:	Stable	Incompatible Materials:	Strong oxidizing agents
Hazardous Decomposition Products:	None known	Hazardous Polymerization:	Will Not Occur

▼ **SECTION VII: SPILL OR LEAK PROCEDURES**

Steps to be Taken in Case Material is Released or Spilled:	Flush with large amounts of water into sanitary sewer.
Waste Disposal Method:	Same as above

▼ SECTION VIII: SPECIAL PROTECTION INFORMATION

Respiratory Protection:	None required
Ventilation:	Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.
Protective Gloves(Specify Type):	Solvent resistant gloves
Eye Protection(Specify Type):	Safety glasses
Other Protective Equipment:	None

▼ SECTION IX: SPECIAL PRECAUTIONS

Precautions; Handling & Storing:	Nothing special
Other Precautions:	None

© SCC 09/24/1999
TOUGH ON GREASE

Name: Ronald T. Cook
Effective 09/24/1999
Date:

Title: Manager, Regulatory Affairs
Supercedes: 02/12/1998

Ref: 29 CFR 1910.1200 (OSHA) Changes: Address and Format

This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained herein. Actual conditions of use and handling are beyond sellers control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State and Local laws and regulations.

EQUINOX® ULTRA HIGH SPEED FLOOR COATING

LAST REVISION DATE: 10/22/01

MANUFACTURER: Pioneer Eclipse® Corporation
Sparta, NC 28675 Phone: 1-336-372-8080
FOR CHEMICAL EMERGENCY: Spill, Leak, Fire,
Exposure or Accident CALL CHEMTREC - Day or
Night 1-800-424-9300 Toll Free in the
Continental US 483-7616 in DISTRICT OF
COLUMBIA. For calls originating outside the US:
Call Collect 1-202-483-7616 Washington, DC

SECTION I: GENERAL INFORMATION

PRODUCT NAME: Equinox Ultra High Speed
Floor Coating
PRODUCT #: 103
PRODUCT CLASS: Acrylic co-polymer emulsion
PRECAUTIONS: Possible skin and eye irritant.
Keep container sealed when not in use. Keep
out of reach of children.
FLAMMABILITY: 0
REACTIVITY: 0
HEALTH: 1
NFPA HAZARD RATINGS

4-EXTREME 3-HIGH 2-MODERATE
1-SLIGHT 0-INSIGNIFICANT

**SECTION II: HAZARDOUS INGREDIENTS**

INGREDIENT: *Diethylene glycol monoethyl ether
CAS#: 111-90-0
%: 5-10
OSHA PEL: N/E
ACGIH TLV: N/E
AIHA WEEL: 25 ppm
LD 50 SPECIES & ROUTE: 5.5 g/kg rat, oral
9.0 g/kg rabbit, skin
LC 50: >200 mg/l inspired 1 hour, rat

* This chemical is subject to the reporting
requirements of Section 313 of SARA Title III.

N/E = Not Established, N/L = Not Listed,
N/A = Not Applicable

SECTION III: PHYSICAL/CHEMICAL DATA

PHYSICAL STATE: Liquid
pH: 9.0 ± 0.5
BOILING POINT: 100° C / 212° F
EVAPORATION RATE: Less than 1 (Water = 1)
FREEZING POINT: 0° C / 32° F
VAPOR DENSITY: Less than 1 (Air = 1)
% VOLATILE BY WEIGHT: 77-79%
VAPOR PRESSURE (mm Hg): N/E
APPEARANCE: Milky white
WEIGHT PER GALLON: 8.62 lb (3.9 kg)
DENSITY: 1.034 kg/l @20° C
SOLUBILITY IN WATER: Miscible

SECTION IV: FIRE AND EXPLOSION DATA

FLASH POINT: Non-combustible
EXPLOSIVE LIMITS:
LOWER: N/A **UPPER:** N/A
EXTINGUISHING MEDIA: N/A
SPECIAL FIRE FIGHTING PROCEDURES: None
HAZARDOUS COMBUSTIBLE PRODUCTS: None
UNUSUAL FIRE AND EXPLOSION HAZARDS:
Materials can splatter above 100° C / 212° F.

SECTION V: REACTIVITY DATA

STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur.
INCOMPATIBILITY (MATERIALS TO AVOID):
Strong acids and bases
HAZARDOUS DECOMPOSITION PRODUCTS: N/A
REACTIVITY CONDITIONS: None

SECTION VI: HEALTH HAZARD DATA

EYES: Slightly irritating to eyes. For eye contact,
flush with a large amount of water for at least
15 minutes. See a physician if irritation persists.
SKIN: Irritating to skin upon repeated or
prolonged contact. For skin contact, wash
affected areas with soap and water.
INHALATION: Vapor or mist can cause
headache, nausea and irritation of the eyes,
nose, throat and lungs. For overexposure, move
subject to fresh air.
INGESTION: Irritation to mouth, esophagus
and stomach. If ingested, drink several
glasses of water and induce vomiting.
Seek medical attention.
CHRONIC EFFECTS AND MEDICAL CONDITIONS
AGGRAVATED BY OVEREXPOSURE: Prolonged or
repeated contact can cause drying, defatting
and dermatitis to skin.
CARCINOGEN: Non-carcinogenic
REPRODUCTIVE EFFECTS: N/E
TERATOGENICITY: N/E
MUTAGENICITY: N/E
THRESHOLD LIMIT VALUE: See Section II.

SECTION VII: SPILL, LEAK & DISPOSAL PROCEDURES

SMALL SPILLS: Absorb spill with inert material
(e.g. sand, earth) and dispose of as waste
material in accordance with local, state and
federal regulations.
LARGE SPILLS: Keep spectators away. Floors
may be slippery; use care to avoid falling. Dike
and contain spill with inert material (e.g. sand,
earth). Transfer liquid to containers for recovery
or disposal and solid diking material to separate
containers for disposal. Keep spills and cleaning
runoff out of sewers and open bodies of water.

WASTE DISPOSAL: Coagulate the emulsion by
the stepwise addition of ferric chloride and lime.
Remove the clear supernatant liquid and flush to
a chemical sewer or drum liquid waste and turn
it over to a licensed hazardous waste disposal
facility for disposal, landfill or incinerate the
contaminated solids and diking material
according to local, state and federal regulations.

SECTION VIII: SPECIAL PROTECTION

EYE PROTECTION: Chemical splash goggles
(ANSI Z87.1-1989 or approved equivalent)
RESPIRATORY PROTECTION: None required
when permissible airborne concentrations
are not exceeded. In emergency, use
approved positive pressure self-contained
breathing device.
VENTILATION: Mechanical local exhaust
ventilation at point of contamination release.
OTHER PROTECTIVE EQUIPMENT: As required
by employer code.

SECTION IX: SPECIAL PRECAUTIONS

HANDLING AND STORAGE:
Storage temperature (MAX. 60° C / 140° F)
(MIN. 1° C / 34° F).
OTHER PRECAUTIONS: Avoid freezing. If frozen,
allow to return to room temperature slowly. Mix
thoroughly before using.

SECTION X: ADDITIONAL INFORMATION

Neither this data sheet nor any statement
contained herein grants or extends any license,
expressed or implied, in connection with patents
issued or pending which may be the property of
the manufacturer or others. The information in
this data sheet has been assembled by the
manufacturer based on its own studies and the
work of others. The manufacturer makes no
warranties, expressed or implied, as to the
accuracy, completeness or adequacy of the
information contained herein. The manufacturer
shall not be liable (regardless of fault) or the
vendee, the vendee's employees or anyone for
any direct, special or consequential damages
arising out of or in connection with the
accuracy, completeness, adequacy or
furnishing of such information.

This MSDS has been provided to you in accordance
with the OSHA HAZARD COMMUNICATION STANDARD
(29CFR1910.1200).

***IMPORTANT SAFETY INFORMATION
DO NOT DISCARD***
PLEASE ROUTE TO COMPANY SAFETY OFFICER

Pioneer Eclipse

MATERIAL SAFETY DATA SHEET

ECLIPSE NEUTRAL CLEANER

LAST REVISION DATE: 08/08/03
MANUFACTURER: Pioneer Eclipse® Corporation
 Sparta, NC 28675 Phone: 1-336-372-8080
FOR CHEMICAL EMERGENCY: Spill, Leak, Fire,
 Exposure or Accident **CALL CHEMTREC - Day or**
Night 1-800-424-9300 Toll Free in the
 Continental US **483-7616** In DISTRICT OF
 COLUMBIA. For calls originating outside the US:
 Call Collect **1-202-483-7616** Washington, DC.

SECTION I: GENERAL INFORMATION

PRODUCT NAME: Eclipse Neutral Cleaner
PRODUCT #: 301
PRODUCT TYPE: All-purpose water-based cleaner
PRECAUTIONS: Possible skin and eye irritant.
 Keep container sealed when not in use. Keep out
 of reach of children.
FLAMMABILITY: 0
REACTIVITY: 0
HEALTH: 1
NFPA HAZARD RATINGS
 4-EXTREME 3-HIGH 2-MODERATE
 1-SLIGHT 0-INSIGNIFICANT



SECTION II: HAZARDOUS INGREDIENTS

INGREDIENT: Anionic/nonionic surfactants
CAS #: N/A
%: 5-10 %
OSHA PEL: N/A
ACGIH TLV: N/A
LD 50 SPECIES & ROUTE: N/A

N/E = Not Established, N/L = Not Listed,
 N/A = Not Applicable.

SECTION III: PHYSICAL/CHEMICAL DATA

APPEARANCE: Pink viscous liquid
PHYSICAL STATE: Liquid
pH: 9.0 ± 0.25
BOILING POINT: 100°C / 212°F
EVAPORATION RATE: Less than water
FREEZING POINT: 0°C / 32°F
VAPOR DENSITY: Less than air
VOLATILE BY WEIGHT: 92-94%
VAPOR PRESSURE: Less than water
DENSITY: 8.5 lb per gal @ 68°F
 1.02 kg per liter @ 20°C
SOLUBILITY IN WATER: Miscible

SECTION IV: FIRE AND EXPLOSION DATA

FLASH POINT: Non-combustible
EXPLOSIVE LIMITS:
 LOWER: N/A UPPER: N/A
EXTINGUISHING MEDIA: N/A
SPECIAL FIRE FIGHTING PROCEDURES: None
HAZARDOUS COMBUSTIBLE PRODUCTS: None
UNUSUAL FIRE AND EXPLOSION HAZARDS:
 Materials can splatter above 100°C / 212°F.

SECTION V: REACTIVITY DATA

STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur.
INCOMPATIBILITY (MATERIALS TO AVOID):
 Strong acids and bases
HAZARDOUS DECOMPOSITION PRODUCTS: N/A
REACTIVITY CONDITIONS: None

SECTION VI: HEALTH HAZARD DATA

EYES: Slightly irritating to eyes. For eye contact,
 flush with a large amount of water for at least 15
 minutes. See a physician if irritation persists.
SKIN: Slightly irritating to skin upon repeated or
 prolonged contact. For skin contact, wash
 affected areas with soap and water.
INHALATION: Vapor or mist may cause
 irritation of the eyes, nose, throat and lungs. For
 overexposure, move subject to fresh air.
INGESTION: May cause irritation to mouth,
 esophagus and stomach. If ingested, drink
 several glasses of water and do not induce
 vomiting. Seek medical attention.
CHRONIC EFFECTS AND MEDICAL CONDITIONS
AGGRAVATED BY OVEREXPOSURE: Prolonged or
 repeated contact can cause drying, defatting and
 dermatitis to skin.
CARCINOGEN: Non-carcinogenic
REPRODUCTIVE EFFECTS: N/E
TERATOGENICITY: N/E
MUTAGENICITY: N/E
THRESHOLD LIMIT VALUE: See Section II.

SECTION VII: SPILL, LEAK & DISPOSAL PROCEDURES

SMALL SPILLS: Absorb spill with inert material
 (e.g. sand, earth) and dispose of as waste
 material in accordance with local, state and
 federal regulations.
LARGE SPILLS: Keep spectators away. Floors
 may be slippery; use care to avoid falling. Dike
 and contain spill with inert material (e.g. sand,
 earth). Transfer liquid to containers for recovery
 or disposal and solid diking material to separate
 containers for disposal. Keep spills and cleaning
 runoff out of sewers and open bodies of water.
WASTE DISPOSAL: Dispose of as waste
 material in accordance with local, state, and
 federal regulations.

SECTION VIII: SPECIAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT (PPE)
EYES: None required under normal conditions of
 use. Safety glasses recommended.
SKIN: If prolonged or repeated contact is
 possible, chemical-resistant clothing (e.g., rubber
 gloves) is recommended.
RESPIRATORY: No respiratory protection is
 required if ventilation is adequate.

ENGINEERING CONTROLS: Good general room
 ventilation is expected to be adequate. Local
 exhaust ventilation (e.g., fans) may be necessary
 when general ventilation does not keep airborne
 concentrations below any exposure limits.

SECTION IX: SPECIAL PRECAUTIONS

HANDLING AND STORAGE:
 Storage temperature (MAX. 60°C / 140°F)
 (MIN. 1°C / 34°F)
OTHER PRECAUTIONS: Keep from freezing;
 product may coagulate.

SECTION X: ADDITIONAL INFORMATION

Neither this data sheet nor any statement
 contained herein grants or extends any license,
 expressed or implied, in connection with patents
 issued or pending which may be the property of
 the manufacturer or others. The information in
 this data sheet has been assembled by the
 manufacturer based on its own studies and the
 work of others. The manufacturer makes no
 warranties, expressed or implied, as to the
 accuracy, completeness or adequacy of the
 information contained herein. The manufacturer
 shall not be liable (regardless of fault) or the
 vendee, the vendee's employees or anyone for
 any direct, special or consequential damages
 arising out of or in connection with the
 accuracy, completeness, adequacy or
 furnishing of such information.

This MSDS has been provided to you in accordance
 with the OSHA HAZARD COMMUNICATION STANDARD
 (29CFR1910.1200).

***IMPORTANT SAFETY INFORMATION
 DO NOT DISCARD***
 PLEASE ROUTE TO COMPANY SAFETY OFFICER

Pioneer Eclipse

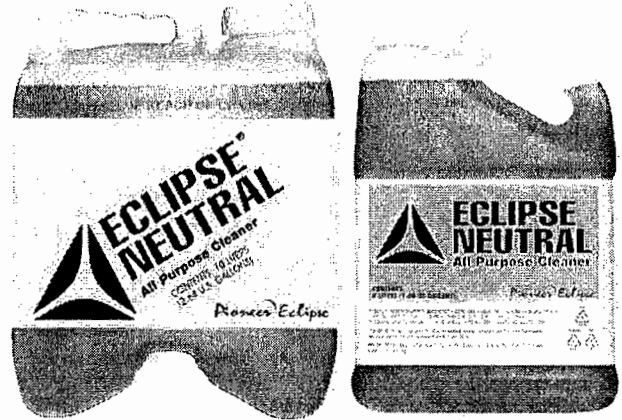
PRODUCT DATA

ECLIPSE® NEUTRAL CLEANER

Low pH, all-purpose daily floor cleaner removes dirt and soil without harming the shine. May be used on all washable surfaces.

FEATURES

- Concentrated for economical use
- Low foaming – easily applied with mop, sponge or autoscrubber
- Effective cleaner for deep scrubbing
- Excellent cleaner for use after stripping and scrubbing to neutralize the floor surface
- Pleasant light, lemon fragrance



RECOMMENDED FLOOR SURFACES

All resilient tile flooring, linoleum, terrazzo, marble and quarry tile and treated wood floors.

PRODUCT DATA

Description:	All-purpose synthetic water-based cleaner
Appearance:	Pink viscous liquid
Fragrance:	Slight lemon
Viscosity (Brookfield):	200 \pm 50 centipoise @ 68°F (20°C)
pH:	9.0 \pm 0.25 ASTM E70-77
pH @ 1:64:	8.5 \pm 0.25 ASTM E70-77
Flash Point:	None
Shelf Life:	2 years, ASTM D1791-93 (1998)
Density:	8.5 lb per gal @ 68°F 1.02 kg per liter @ 20°C
Freeze/Thaw:	Passes 3 cycles ASTM D3209-93 (1998)

PRECAUTIONS

Keep out of reach of children. Keep container sealed when not in use. Avoid freezing. If frozen, allow to return to room temperature slowly and mix thoroughly before using.

ORDERING INFORMATION

Product #301:	2 x 2.64 gallon per case (2 x 10 liter)
Product #301MP:	4 x 1.06 gallon per case (4 x 4 liter)

DIRECTIONS FOR USE: ROUTINE MAINTENANCE

1. Sweep floor using a mop treated with Eclipse Dust Mop Treatment or with an untreated dust mop daily.
2. Mix Eclipse Neutral Cleaner in mop bucket or autoscrubber per the following dilution ratios:

Light Cleaning

1:128 1 US oz per gallon water (40 ml per 5 liters water)

Medium Cleaning

1:64 2 US oz per gallon water (80 ml per 5 liters water)

Heavy Cleaning

1:32 4 US oz per gallon water (160 ml per 5 liters water)

3. Damp mop or autoscrub floor with a Pioneer Eclipse light cleaning pad.

DIRECTIONS FOR USE: DEEP SCRUB MAINTENANCE

1. Sweep floor using a mop treated with Eclipse Dust Mop Treatment or with an untreated dust mop.
2. Mix Eclipse Neutral Cleaner in mop bucket or autoscrubber per the "Heavy Cleaning" dilution ratio.
3. Autoscrub with a Pioneer Eclipse deep scrub pad. Rinse floor with clean cold water and allow to dry thoroughly.
4. Recoat floor with recommended Pioneer Eclipse floor coating following coating label directions.

NOTE: Eclipse Neutral Cleaner is an effective all-purpose cleaner for any washable surface.

Pioneer Eclipse®

PROCHEM ULTRA-PAC TRAFFIC LANE CLEANER
MIXING PROCEDURES

WHEN USING AS A PRE-MIST BOOSTER: For normal maintenance

13 oz NXT
3 oz Prochem
1 gal water

WHEN USING AS A PRE-MIST ONLY: For medium to heavy soiled areas.
Can be used with MDCC or Extraction. Neutralization is recommended.
Allow to dwell for minimum of 10 minutes.

6 oz Prochem
1 gal water

WHEN USING WITH CROWD CONTROL: For protein based oils and grease. Can be
Used with MDCC or Extraction. Must be neutralized. Allow to dwell for
minimum of 20 minutes.

3 oz Crowd Control
1 gal 125° – 145° water
Shake well then add
6 oz Prochem

MATERIAL SAFETY DATA SHEET – U.S.

Ultrapac Trafficlean S711 Professional Chemicals Corporation

Revision Date: January 8, 2003 Revision 2.1

Section 1: Chemical Product and Company Information

Product Name: Ultrapac Trafficlean

Product Number: S711

Manufacturer: Professional Chemicals Corp
325 S. Price Road
Chandler, AZ USA 85224

Emergency Telephone:
(800) 535-5053 [Infotrac]

Section 2: Composition / Information or Ingredients

<u>Hazardous Ingredient</u>	<u>CAS</u>	<u>OSHA PEL</u>	<u>OSHA HAZARD</u>	<u>LD₅₀ LC₅₀</u>
Ethylene Glycol Butyl Ether	111-76-2	N/E	Acute	See Section 11

Section 3: Hazard Identification

Emergency Overview

Appearance: Yellow Opaque Liquid **Odor:** Mint Scent **Flashpoint:** >212°F

Hazard: Product is mild irritant

Eye Contact: May cause temporary eye irritation; injury to eye tissue unlikely.

Skin Contact: Frequent or prolonged contact may cause temporary irritation. Skin contact may aggravate an existing dermatitis condition.

Inhalation: May cause slight temporary irritation.

Ingestion: Small amounts swallowed incidental to normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause temporary injury.

HMIS Hazard Rating: Health 1 Flammability 0 Reactivity 0

Section 4: First Aid Measures

Eye Contact: Immediately irrigate with flowing water continuously for 15 minutes. If irritation persists consult medical personnel.

Skin Contact: Wash with soap and water. If irritation persists consult medical personnel.

Inhalation: Move to fresh air. If irritation persists consult medical personnel.

Ingestion: If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. If injured party is conscious, give two glasses of water. Seek medical attention.

MATERIAL SAFETY DATA SHEET – U.S.

Ultrapac Trafficlean S711

Professional Chemicals Corporation

Revision Date: January 8, 2003 Revision 2.1

Section 5: Fire-Fighting Measures

Flashpoint: >212°F

Autoignition Temperature: N/D

General Hazard: Mild Irritant

Upper Flammable Limit (% by volume): N/D

Lower Flammable Limit (% by volume): N/D

Fire Fighting Procedures: Wear self-contained breathing apparatus and full protective clothing. Use water spray to cool nearby containers and structures exposed to fire.

Hazardous Decomposition Products: During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds. Hazardous combustion products may include and are not limited to carbon dioxide and carbon monoxide.

Section 6: Accidental Release Measures

Keep all unnecessary personnel away. Prevent additional discharge of material. Prevent material from entering sewers, watercourses, or low areas. Contain and absorb spilled material with sand or earth. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

Section 7: Handling and Storage

Store out of reach of children; keep container closed; store in a cool well-ventilated place away from strong oxidizing or alkaline product. Avoid contact with skin and eyes. Use in a well-ventilated area; do not breathe vapors. Wash hands thoroughly after handling.

Section 8: Exposure Controls / Personal Protection

Engineering Controls: Normal room ventilation is satisfactory for limited use.

Eye Protection: Safety glasses.

Skin Protection: Use gloves impervious to this material when prolonged or frequently repeated contact could occur.

Respiratory: No respiratory protection should be needed.

Exposure guidelines: N/E

Section 9: Physical and Chemical Properties

Appearance/Physical State: Opaque Yellow Liquid

Vapor Pressure: N/D

Boiling Point: N/D

Density: 9.4 lbs. /gal.

Solubility in Water: N/D

Odor: Mint scent

Vapor Density: N/D

Freezing Point: N/D

Concentrate pH: 9.5

RTU pH: 9.5 – 9.8

MATERIAL SAFETY DATA SHEET – U.S.

Ultrapac Trafficlean S711 Professional Chemicals Corporation

Revision Date: January 8, 2003 Revision 2.1

Section 10: Stability and Reactivity

Chemical stability: Stable

Incompatibility with other substances: Strong oxidizing or alkaline agents

Reactivity: None Known

Hazardous Decomposition Products: Exposure to fire may liberate carbon dioxide, carbon monoxide, organic acids, and other unidentified thermal decomposition products from this product or its packaging.

Section 11: Toxicological Information

Route of Entry: Eye/Skin contact

Effects of Acute Overexposure to Product:

Eye Contact: May cause temporary eye irritation, redness, tearing, and blurred vision

Skin Contact: May cause temporary skin irritation, defatting and dermatitis

Inhalation: Inhalation of mist or vapor may cause temporary respiratory irritation; temporary central nervous system effects including dizziness, weakness, fatigue, nausea, and headache.

Ingestion: May cause gastrointestinal temporary irritation with nausea, vomiting and diarrhea
aspiration into the lungs can cause chemical pneumonitis.

Effects of Chronic Overexposure to Product:

Exposure limits: N/D for mixture

Teratogenicity: None

Reproductive toxicity: None

Sensitization to Product: None known

Mutagenicity: None

Carcinogenicity: None

Section 12: Ecological Information

Please refer to Section 6 for information regarding accidental releases and Section 15 for regulatory reporting information.

Section 13: Disposal Considerations

Dispose of in accordance with federal, state and local regulations. Prevent run-off to sewers.

Section 14: Transportation Information

Product is not hazardous by DOT regulation.

Packaging: Strong outer packaging. UN specification packaging not required.

Note: Additional compliance steps are required for air shipments; ship in accordance with 49 CFR parts 100 - 185.

MATERIAL SAFETY DATA SHEET – U.S.

Ultracac Trafficlean S711

Professional Chemicals Corporation

Revision Date: January 8, 2003 Revision 2.1

Section 15: Regulatory Information

TSCA: All chemicals used in this product are listed

CERCLA: No

SARA Title III: Under the provisions of Title III, Sections 311/312 of the Superfund Amendments and Reauthorization Act, this product is classified into the immediate health hazard category

The chemicals used in this product may be subject to the provisions of the Community Right-to Know Act (40 CFR 370 - 374). If reporting requirements are met, please contact the Environmental, Health and Safety (EHS) Manager for information regarding this product.

Section 16: Other Information

This document is prepared in accordance with 29 CFR 1910.1200. The purpose of this section is to ensure that the hazards of all chemicals produced or imported are evaluated, and that information concerning their hazards is transmitted to employers and employees.

All information appearing herein is based upon data obtained from the raw material manufacturer and/or recognized technical sources. While the information above is believed to be true and accurate, the author makes no representations as to its accuracy or sufficiency. Conditions of use are beyond the manufacturer's control; therefore the users are responsible to verify this data under their own particular conditions, applications and regulations to determine if the product is suitable for their particular purposes. The users assume all risks of product use, handling, disposal, reliance upon, publication or use of the information contained herein. This information applies only to the product designated above and does not necessarily apply to its use in combination with other materials, products, chemical compounds, structures or processes.

Prepared by: EHS Manager

Phone Number: [480] 899-7000