



PENSACOLA MILL
375 MUSCOGEE ROAD
PO BOX 87
CANTONMENT FL 32533-0087
PHONE 850 968 2121

November 18, 2005

Mrs. Melissa D. Woehle
Florida Department of Environmental Protection
160 Government Center
Pensacola, Florida 32502-5794

Subject: Material Safety Data Sheet Request

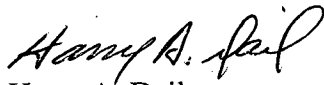
Dear Melissa:

Please find enclosed the following four MSDS's the Department requested during the hazardous waste compliance inspection on Tuesday, November 8, 2005.

- o CRC Fast dry degreaser
- o Chesterton 723 Sprasolvo, penetrating oil
- o Daubert NOX RUST VCI-10
- o Tennant Formula 658 Super Strength Liquid Degreaser.

Please contact me if you require any additional information.

Sincerely,


Harry A. Dail

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NOV 21 2005

**NORTHWEST FLORIDA
DEP**

CRC MATERIAL SAFETY DATA SHEET

CRC Industries, Inc. • 885 Louis Drive • Warminster, PA 18974 • (215) 674-4300

PRODUCT NAME Electrical Fast Dry Degreaser #-1SDS02185
 PRODUCT-02185

(Page 1 of 2)

1. INGREDIENTS	CAS #	ACGIH TLV	OSHA PEL	OTHER LIMITS	%
Methanol	67-56-1	200 ppm	200 ppm	1-10	1-10
n-Hexane	110-54-3	50 ppm	50 ppm	1-5	1-15
Trohexanes	107-83-5	500 ppm	500 ppm	1-15	50-80
Cyclohexane	110-82-7	300 ppm	300 ppm	10-25	10-25
Ethanol	64-17-5	1000 ppm	1000 ppm	1-10	1-10
Carbon Dioxide	124-38-9	5000 ppm	10000		

2. PHYSICAL DATA (Without propellant)
 Specific Gravity : 0.767
 Vapor Pressure : ND
 % Volatile : 100
 Boiling Point : <179 F (estimated)
 Freezing Point : ND
 Appearance and Odor : A water white liquid with a slight odor.
 Solubility : Slight solubility in water.

3. FIRE AND EXPLOSION DATA
 Flashpoint : <0 F Method : TCC
 Flammable Limits : UEL:NA UEL:NA
 Extinguishing Media : Dry chemical, foam, or CO2.
 Unusual Hazards : Product is highly volatile and readily gives off vapors - Keep from ignition sources.

4. REACTIVITY AND STABILITY
 Stability : Stable
 Hazardous decomposition products : CO2, CO (thermal)
 Materials to avoid : Keep from strong oxidizing agents.

5. PROTECTION INFORMATION
 Ventilation : Adequate to prevent the accumulation of vapors.
 Respiratory : Self contained breathing apparatus is accumulation of vapors is suspected.
 Eye & Face : Safety glasses
 Gloves : Neoprene
 Other Protective Equipment: Not usually required with aerosols.

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NOV 21 2005

NORTHWEST FLORIDA DEP

MATERIAL SAFETY DATA SHEET

PRODUCT NAME : Electrical Fast Dry Degreaser #-1SDS02185
 PRODUCTS-02185

MANUFACTURED BY : CRC INDUSTRIES, INC.
 885 LOUIS DRIVE, WARMINSTER, PA, 18974
 PHONE (215) 674-4300
 (Page 2 of 2)

6. HEALTH HAZARD DATA

Primary Routes of Entry : Inhalation, Skin
 Signs and Symptoms of Exposure
 1. Acute Overexposure: Eyes - burning and irritation. Skin - mild irritation. Inhalation - irritation of respiratory tract, dizziness, headaches, central nervous system depression.
 2. Chronic overexposure: Repeated overexposures may cause harm to the nervous system.

Medical Conditions Generally Aggravated by Exposure : Pre-existing lung disorders.

Chemical listed as Carcinogen : No
 or Potential Carcinogen : No
 National Toxicology Program IARC Monographs OSHA

Emergency and First Aid Procedures : (If symptoms persist, call a physician)
 1. Inhalation : Remove to fresh air. Apply artificial respiration if necessary.

2. Eyes : Flush with large amounts of water for 15 minutes.

3. Skin : Wash area thoroughly with soap and water.

4. Ingestion : DO NOT induce vomiting. Call a physician.

7. SPILL OR LEAK PROCEDURES
 Precautions to be taken : Store in a cool, dry area.
 in Handling and Storage

Steps to be taken in case of spill with an inert absorbent material. Absorb material is released or spill with an inert absorbent material.

Waste Disposal : All used and unused product should be disposed of in conformance with local, state and federal regulations.

8. SPECIAL PRECAUTIONS AND USE DIRECTIONS :
 Aerosol cans may explode when heated above 120 F. Use product in areas with good ventilation. Vapors are heavier than air and will collect in low areas.

9. NFPA HAZARD RATINGS Health: 2 Flammability: 3 Reactivity: 0

10. SARA Information
 This product contains the following chemicals that are subject to release reporting under Section 313 of SARA Title III
 Chemical Name CAS # Percent

Ethanol 67-56-1 1-10
 Cyclohexane 110-82-7 50-80

PREPARED BY: Adam Belisher ORIGINAL DATE OF DATE OF REVISION: 11/03/94

1611



CHESTERTON

Global Solutions. Local Service.

MATERIAL SAFETY DATA SHEET

in accordance with 91/155/EEC

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product Name: 723 Spruzol[®]

Date of Preparation: 24 June 2004

MSDS No. 175-17

Not classified as hazardous according to criteria of Worksafe Australia.

Company:
A.W. CHESTERTON COMPANY
225 Fallon Road
Stonham, MA 02180-2904, USA
Tel.: 781-438-7000
(Mon. - Fri. 8:30 - 5:00 PM EST)

Supplier:

For Chemical Emergency:
24 hours per day, 7 days per week
Call Inframac: 1-800-535-5053
Outside N. America: +1 352-323-3500 (collect)

Use: Penetrating oil - frees nuts, bolts, fittings without injury to base metal.

2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients [†]	% Wt.	CAS No.	EC No.	Symbol	R-phrases
Stoddard Solvent ^{**}	45-55	8052-41-3	232-189-3	Xn	R-65
Carbon Dioxide	1-5	124-38-9	204-596-9	-	-

Other Ingredients: [†]	% Wt.	CAS No.	EC No.	Symbol	R-phrases
Distillates (Petroleum), Hydrotreated Naphthenic ^{**}	45-55	64742-53-6	265-156-6	-	-
		64742-52-5	265-155-0		

[†]Contains less than 0.1 % w/w Benzene. ^{**}Contains less than 3 % DMSO extract as measured by IP 346. See section 15 for labelling risk phrases and section 16 for others.

3. HAZARDS IDENTIFICATION

Contents under pressure. Direct eye contact may result in eye irritation. High vapor concentrations cause eye and respiratory tract irritation and dizziness, headache and other central nervous system effects. Since this product is combustible, avoid using near ignition sources and hot surfaces.

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If not breathing, administer artificial respiration.

Skin Contact: Wash skin with soap and water. Contact physician if irritation persists.

Eye Contact: Flush eyes for at least 15 minutes with large amounts of water. Contact physician if irritation persists.

Ingestion: Do not induce vomiting. Contact physician immediately.

Advice to Physician: Treat symptoms.

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[†]Classified according to:
- 29 CFR 1910.1200, 1915, 1916, 1917
- Mass. Right-to-Know Law (ch. 90, M.G.L.A. 111F)
- Canadian WHMIS regulations
- 67/548/EEC (28th Amendment) and 99/45/EC
- Worksafe Australia (NOHSC 1008 (1999))

Date: 24 June 2004

Product: 723 Sprasolvo®

MSDS No.: 75-17

5. FIRE-FIGHTING MEASURES

Extinguishing Methods: carbon dioxide, dry chemical, foam or water spray
Unusual Fire and Explosion Hazards: Pressurized containers, when heated, are a potential explosive hazard.
Special Fire Fighting Measures: Cool exposed containers with water. Recommend Firefighters wear self-contained breathing apparatus.
Flammability Classification: NFPA Storage Level III; 16 CFR 1500.3 Non-flammable aerosol

HAZCHEM Emergency Action Code: 2

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Utilize exposure controls and personal protection as specified in Section 8.
Environmental Precautions: Keep out of sewers, streams and waterways.
Methods of Clean Up: Evacuate area. Provide adequate ventilation. Contain spill to a small area. Pick up with absorbent material (sand, sawdust, clay, etc.) and place in a suitable container for disposal.

7. HANDLING AND STORAGE

Handling: Shake well before using. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No Smoking. After handling, wash before eating, drinking or smoking.
Storage: Pressurized container; protect from sunlight and do not expose to temperatures exceeding 50°C (120°F). Do not pierce or burn, even after use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous Ingredients	OSHA		ACGIH TLV		AUSTRALIA	
	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
Stoddard Solvent	300	2900	100	525	-	790
carbon dioxide	5000	9000	5000	9000	5000	9000
Oil Mist, Mineral	-	5	30000	54000	30000	54000
			-	5	-	5
			STEL	10		

Respiratory Protection: Not normally needed. If necessary, utilize an approved organic vapor respirator.
Ventilation: No special requirements. If exposure limits are exceeded, provide adequate ventilation. Vapors are heavier than air and will collect in low areas.
Protective Gloves: Chemical resistant gloves (e.g., natural rubber, Neoprene or PVC)
Eye Protection: Recommend safety glasses.
Other: none

Product: 723 Sprasolve®

Date: 24 June 2004

MSDS No.: 175-17

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid	Odour	petroleum distillate odor
Colour	blue	Vapour pressure @ 20°C	not determined
Initial boiling point	not determined	% Aromatics by weight	0.5%
Melting point	not determined	pH	not applicable
% Volatile (by volume)	50%	Density	0.83 kg/l
Flash point	49°C (120°F), product only	Weight per volume	6.9 lbs/gal
Method	Tag Closed Cup	Coefficient (water/oil)	< 1
Viscosity	< 100 cps @ 25°C	Vapour density (air=1)	> 1
Autoignition temp.	not determined	Rate of evaporation (ether=1)	< 1
Explosion limits	LEL 1.2%, UEL 9.9%	Solubility in water	negligible
		Other	none

10. STABILITY AND REACTIVITY

Stability:	Stable
Hazardous Polymerization:	Will not occur.
Hazardous Decomposition Products:	Carbon Monoxide, aldehydes and other toxic fumes.
Conditions to Avoid:	Open flames and high temperatures.
Materials to Avoid:	Strong oxidizers like liquid Chlorine and concentrated Oxygen, reactive metals.

11. TOXICOLOGICAL INFORMATION

Primary Route of Exposure Under Normal Use:	Inhalation, skin and eye contact.
Acute Effects:	Information is based on available data on product components. Product as a whole has not been evaluated. Oral: LD50 (rat) = 4700 mg/kg, Dermal: LD50 (rabbit) = 16.37 mg/kg, Inhalation: LC50 (rat) = 15,900 ppm Direct eye contact may result in eye irritation. High vapor concentrations cause eye and respiratory tract irritation and dizziness, headache and other central nervous system effects.
Chronic Effects:	Prolonged or repeated skin contact may defat the skin and cause skin irritation.
Other Information:	As per 29 CFR 1910.1200 (Hazard Communication), this product contains no carcinogens as listed in the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC) or the Occupational Safety and Health Administration (OSHA).

12. ECOLOGICAL INFORMATION

Ecotoxicological data have not been determined specifically for this product. The information given below is based on a knowledge of the components and the ecotoxicology of similar substances.	
Mobility:	Liquid. Insoluble in water. In determining environmental mobility, consider the product's physical and chemical properties (see Section 9). The hazardous ingredients will rapidly evaporate to the air if released into the environment.
Degradability:	Mineral Oil: not readily biodegradable. Stoddard Solvent: inherently biodegradable.
Accumulation:	Mineral Oil: not expected to bioaccumulate.
Ecotoxicity:	Oil products, improperly released to the environment, can cause ground and water pollution.

Product: 723 Sprasolvo®

MSDS No.: 175-17

DATE: 24 June 2004

13. DISPOSAL CONSIDERATIONS

Incinerate absorbed material in an approved area. Incinerate pressurized containers at an approved facility. Check local, state and national/federal regulations and comply with the most stringent requirement.

EWC-code: 15 01 10, 13 02 05

14. TRANSPORT INFORMATION

TDG: AEROSOLS, NON-FLAMMABLE, CLASS 2.2, UN1950

U.S. DOT:
Shipping Name: AEROSOLS, NON-FLAMMABLE
Hazard Class: 2.2
UN/NA #: UN-1950
Packaging Group #: Not Applicable
Emergency Response Guide Book No: 26
NOTE: Shipped as Consumer Commodity (CJ 4.5) in packaging having a rated capacity gross weight of 6 lb. or less (49 CFR 173.306(h)).

IMDG: *AEROSOLS, CLASS 2, UN1950
***NOTE:** Shipped as DANGEROUS GOODS IN LIMITED QUANTITY OF CLASS 2
Ref: IMDG Code 2000 - Chapter 3.2 Dangerous Goods 1.5a for UN1950, Aerosols, column 7 (limited quantity) page 93, special provisions 277 page 186 and Chapter 3.4 (Limited quantities) page 192

IATA/ICAO: AEROSOLS, NON-FLAMMABLE, CLASS 2.2, UN: 950

ADR/RID: 1950 AEROSOLS, 2, 3A, ADR

15. REGULATORY INFORMATION

European Classification: none

R-Phrase(s): *

S-Phrase(s): S23 Do not breathe vapour/spray.
S24 Avoid contact with skin.
*R65 not applicable according to criteria

Name of the substances on the label: none

Other information: Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C (120°F). Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. 45.3% by mass of the contents are flammable.

Canadian Classification: A: Compressed gases; D2B: Toxic materials causing other effects

Risk Phrases(s): Prolonged or repeated skin contact may defat the skin and cause skin irritation

Precautionary and First Aid Measure(s): Do not breathe vapour/spray. Avoid contact with skin. Use with adequate ventilation. After contact with skin, wash with soap and water.

Other Information: Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C (120°F). Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material

16. OTHER INFORMATION

US EPA SARA TITLE III

312 Hazards: 313 Chemicals:

Immediate: None

Pressure Release:

TSCA: All chemical components are listed in the TSCA inventory.

Hazardous Materials Identification System (HMIS)

- 4 = Severe Hazard
- 3 = Serious Hazard
- 2 = Moderate Hazard
- 1 = Slight Hazard
- 0 = Minimal Hazard
- * = See Section 8

HEALTH	1
FLAMMABILITY	1
REACTIVITY	1
Personal Protection	*

JAPAN PRTR Class I Chemicals:

none

Class II Chemicals:

none

Risk phrases in section 2: R10: Flammable.
R63: Harmful: may cause lung damage if swallowed.

Date: 24 June 2004

Product: 723 Sprasolve®

MSDS No. 173-17

Changes to the MSDS in this revision: sections 9, 12, 13.

This information is based solely on data provided by suppliers of the materials used, not on the mixture itself. No warranty is expressed or implied regarding the accuracy of the data or the suitability of the product for the user's particular purpose. The user must make their own determination as to suitability.

MTA #1608

MATERIAL SAFETY DATA SHEET

DAUBERT CHEMICAL COMPANY
4700 SOUTH CENTRAL AVENUE
CHICAGO, ILLINOIS 60638
TELEPHONE: (708) 496-7350
FAX: (708) 496-7367

EMERGENCY CONTACT:
CHEMTREC (800) 424-9300

HMIS HAZARD RATING	
Health	1
Fire	1
Reactivity	0
Personal Protection	D

Date of Review: September 28, 1998	Revised: September 28, 1998
Date of Preparation: December 1990	By: J. Kuksuk

SECTION 1: PRODUCT IDENTIFICATION

Product Code: 415000
Product Name: NOX RUST VCI-10
Chemical Family: Petroleum Oil, Additive Blend
Material Usage: Corrosion Preventive/Lubricant Compound

EMERGENCY OVERVIEW: Petroleum-based product. When product burns it releases typical hydrocarbon products of combustion. Refer to Section 3 for health effects and to Section 5 for fire hazard data.

SECTION 2: INGREDIENTS

Component	Wt%	Recommended Exposure Limits (TWA)
Petroleum Oil (Severely solvent-refined and/or severely hydrotreated) CAS #64741-96-4 and/or #64742-52-5	85-95	OSHA PEL: Not Established ACGIH TLV: 5 mg/m ³ (mists)
Octanoic Acid CAS #124-07-02	2-6	None Established
Morpholine CAS #110-91-8	1-4	OSHA PEL: 20 ppm (skin) STEL: 30 ppm

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SECTION 3: HEALTH HAZARD INFORMATION

Primary Routes of Entry: Inhalation, skin absorption.

Acute Effects: May cause severe eye irritation and reversible skin irritation. Prolonged skin exposure may cause dermatitis or oil acne. Breathing mists may cause pulmonary irritation or dizziness. Excessive inhalation may produce dizziness, nausea, headache, and incoordination.

Chronic Effects: Not determined.

Carcinogenicity: None of the components of this product are listed as carcinogens by NTP, IARC, or OSHA 1910(Z).

Pre-Existing Medical Conditions Aggravated by Exposure: Exposure may aggravate pre-existing respiratory or skin problems.

SECTION 4: FIRST AID PROCEDURES

Inhalation: Move victim to fresh air and call emergency medical care. If not breathing, give artificial respiration; if breathing is difficult, give oxygen.

Eyes: In case of contact with material, immediately flush eyes with running water for at least 15 minutes. Seek immediate medical attention.

Skin: Wash skin with soap and water. Remove and isolate contaminated clothing and shoes at the site.

Ingestion: DO NOT INDUCE VOMITING. Consult a physician. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

SECTION 5: FIRE AND EXPLOSION HAZARD DATA

Flash Point: 250 °F. Min. (COC)

Explosive Limits: LEL = Not Determined UEL = Not Determined

EXTINGUISHING MEDIA:

Small Fires: Dry chemical, CO₂, water spray, or regular foam.

Large Fires: Water spray, fog, or regular foam. Move container from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Stay away from ends of tanks. For massive fire in cargo area, use unmanned hose holder or monitor nozzles. If this is impossible, withdraw from area and let fire burn. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tank due to fire.

Special Firefighting Protection/Emergency Action: Fire may produce irritating or poisonous gases. Positive pressure self-contained breathing apparatus (SCBA) and structural firefighters' protective clothing will provide limited protection. Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind; keep out of low areas. Isolate for 1/2 mile in all directions if tank, rail car or tank truck is involved in fire. If runoff from fire control occurs, notify the appropriate authorities.

Unusual Fire/Explosion Hazards: Flammable/combustible material; may be ignited by heat, sparks or flames.

Vapors may travel to a source of ignition and flash back. Container may explode in heat of fire. Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard.

Products of Combustion: Carbon monoxide, carbon dioxide, oxides of sulfur, miscellaneous hydrocarbons.

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SECTION 6: SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Steps to be Taken in case Material is Released or Spilled: Shut off ignition sources; no flares, smoking or flames in hazard area. Stop leak if you can do it without risk.

Small Spills: Take up with sand or other noncombustible absorbent material and place into containers for later disposal.

Large Spills: Dike far ahead of liquid spill for later disposal.

SECTION 7: SAFE HANDLING INFORMATION

Precautions To Be Taken In Handling/Storage: Store in cool, well-ventilated area. Keep away from flames, sparks or hot surfaces. Never use a torch to cut or weld on or near container. Empty containers can contain explosive vapors.

Other Precautions: Never wear contaminated clothing. Launder or dry clean before wearing. Discard oil-soaked shoes. Wash thoroughly with soap and water (waterless hand cleaner may be helpful in removing residues) after use and before smoking or eating. Avoid excessive skin contact.

SECTION 8: EXPOSURE CONTROLS

Respiratory Protection: NIOSH-approved respirator for organic vapor and mist to control exposure where ventilation is inadequate.

Ventilation: General and local exhaust.

Personal Protective Equipment:

Protective Gloves: Impervious gloves (Viton, PVOH, etc.)

Eye Protection: Safety glasses with sideshields or chemical goggles.

Other Protective Clothing or Equipment: If splashing is anticipated, wear rubber apron and boots or other protective equipment to minimize contact.

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SECTION 9: REACTIVITY HAZARD DATA

Stability: Stable

Incompatibility: Strong acids, oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, oxides of sulfur, miscellaneous hydrocarbons.

Hazardous Polymerization: Will not occur.

SECTION 10: PHYSICAL AND CHEMICAL PROPERTIES

Color:	Amber
Appearance:	Oily Liquid
Odor:	Amine-like
Boiling Point (initial):	>300 °F
Evaporation Rate (n-Butyl Acetate=1):	>1
Vapor Pressure (mmHg @ 20 °C):	<1
Vapor Density (air=1):	>1
Solubility in Water:	Negligible
Specific Gravity:	0.91
pH:	Not Applicable
Percent Volatile by Volume	<14

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ROCK ISLAND LUBRICANTS

SECTION 11: DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Dispose of in accordance with state, local and federal regulations. Materials may become a hazardous waste through use. If permitted, incineration may be practiced.

SECTION 12: REGULATORY INFORMATION

Volatile Organic Content: (Calculated Values)

VOC per gallon: <0.7 lbs/gal
VOC per gallon minus exempt solvents & water: <0.7 lbs/gal

EPA Hazardous Waste Number(s) (40 CFR Part 261): Not Applicable

EPA Hazard Category (40 CFR Part 370): DELAYED (CHRONIC)

SARA TITLE III:

This product contains the following TOXIC CHEMICALS subject to the Reporting Requirements of Sec. 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and of 40 CFR Part 372:

Chemical	CAS No.	Wt%
NONE		

This product contains the following EXTREMELY HAZARDOUS SUBSTANCE(S) subject to Emergency Planning Requirements under Sec. 301-303 (40 CFR Parts 300 and 355) and Emergency Release Notification Requirements under Sec. 304:

Chemical	CAS No.	Wt%	RO/TPO Lbs
NONE			

This product contains the following (CERCLA LIST) HAZARDOUS SUBSTANCE(S) subject to Emergency Release Notification Requirements under Sec. 304 (40 CFR Part 302):

Chemical	CAS No.	Wt%	Final RO Lbs
NONE			

CALIFORNIA PROPOSITION 65:

This product may contain trace quantities of the following chemicals that are identified by the State of California under the Safe Drinking Water and Toxic Reinforcement Act of 1986 ("Proposition 65") as either a carcinogenic or reproductive hazard:

Chemical	CAS No.	Estimated Concentration %
NONE		

Although the information contained herein is believed to be reliable, it is furnished without warranty of any kind. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, and storage.

9/29/04

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1171981



MATERIAL SAFETY DATA SHEET
Formula 658 Super Strength Liquid Cleaner

TENNANT
701 North Liac Drive
P.O. Box 1452
Minneapolis, MN 55440-1452

EMERGENCY PHONE NUMBERS:

CHEMTREC: (800) 424-9300 (24 hrs)
CANADA: CANUTEC (613) 995-6666 (24 hrs)

District of Columbia: (202) 483-7616 (24 hrs)
MSDS Requests: (800) 553-8033

PREPARATION INFO:

By: Kevin Hobbie
(763) 540-1471 (days)
(651) 649-0408 (nights)

This Material Safety Data Sheet (MSDS) has been prepared in compliance with the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein.

Issue Date:	May 10, 2004	HAZARD RATING	NFPA	HMIS	NFPA	HMIS	4 = Extreme	3 = High	0 = Insignificant
Supersedes:	June 25, 2001	Health	2	2	Reactivity	0	2 = Moderate	1 = Slight	COR = Corrosive
Printed:	5/10/04	Fire	1	1	Special	COR			X = Ask supervisor for guidance.

***** I. IDENTIFICATION *****

PRODUCT NAME: Formula 658 Super Strength Liquid Cleaner

US DEPT OF TRANSPORTATION (GROUND):

PART NUMBER: 08678 -5, -15, -55, 60697-5, -55, 221001

UN#: UN1824

PACKAGING GROUP: II

CHEMICAL FAMILY: Alkaline Detergent

HAZARD CLASSIFICATION: Corrosive

MATERIAL USE: Industrial Detergent for Floors

SHIPPING NAME: Sodium Hydroxide Solution

***** II. PHYSICAL DATA *****

BOILING POINT:	212°F / 100°C	FREEZE POINT:	5°F / -15°C
DENSITY:	1.0 kg/L	% VOLATILE:	76 by wt
SOLUBILITY IN WATER:	Complete	VAPOR PRESSURE:	Not Available mm Hg at 20 °C.
ODOR THRESHOLD:	Not Available	pH:	13 - 14
PHYSICAL FORM:	Liquid	VAPOR DENSITY:	Heavier THAN AIR
APPEARANCE AND ODOR:	Clear dark amber/Soap	COEFFICIENT WATER/OIL DISTRIBUTION:	Not Available
EVAPORATION RATE:	Slower THAN N-BUTYL ACETATE	VOC g/L (lb/gal):	333 (2.77)
MECHANICAL IMPACT:	Not Available	STATIC DISCHARGE:	Not Available

***** III. INGREDIENTS *****

All components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory. Hazardous ingredients, defined as Controlled Products by Canadian WHMIS, are identified by (H2D) after the chemical ingredient. This product has been classified in accordance with the hazard criteria of the CPR (Controlled Products Regulations) and the MSDS contains all of the information required by the CPR.

CHEMICAL	CAS #	% W	OSHA PEL ppm	ACGIH TLV TWA ppm	ACGIH TLV		LC50 INHALATION
					STEL ppm	LD50	
2-Butoxyethanol (H2D)	111-76-2	5-10	50, 240 mg/m³	25, 120 mg/m³	Not Available	1,746 mg/kg (oral rat), 435 mg/kg (dermal rabbit)	700 ppm/7hr (mouse)
Potassium Hydroxide (H2D)	1310-58-3	5-10	Not Available	2 mg/m³ (ceiling)	2 mg/m³ (ceiling)	Not Available	Not Available
Ethoxylated Propoxylated Linear Alcohol	37311-02-7	1-5	Not Available	Not Available	Not Available	Not Available	Not Available
Nonionic Surfactant	9016-45-9	1-5	Not Available	Not Available	Not Available	3000 mg/kg (oral rat) >3 g/kg (skin rabbit)	Not Available
Dicarboxylic Fatty Acid	53960-98-4	1-5	Not Available	Not Available	Not Available	>6000 mg/kg (oral rat)	Not Available
Sodium Tall Oil Soap	65997-01-5	1-5	Not Available	3 mg/m3 (resp frac) 10 mg/m3 total	Not Available	Not Available	Not Available
Potassium Silicate	1312-76-1	1-5	2 mg/m³ (ceiling)	2 mg/m³ (ceiling)	Not Available	Not Available	Not Available
Aliphatic Petroleum Distillate	8008-20-5	1-5	Not Available	Not Available	Not Available	Not Available	Not Available
Diethanolamine (H2D)	111-42-2	<1	Not Available	2 m (skin)	Not Available	Not Available	Not Available

SARA Title III Section 313 Information:

Components present in this product at a level which could require reporting under this statute are:

- 2-Butoxyethanol - CAS #111-76-2 5.4% by wt
- Diethanolamine - CAS #111-42-2 <0.8% by wt.

California Proposition 65 Information:

This product contains the following chemicals that have been designated as cancer and/or reproductive hazards under California Proposition 65.

None

****** IV. FIRE AND EXPLOSIVE HAZARD DATA ******

FLAMMABLE: No **FLASH POINT:** >200°F / > 93°C **Setofflash**
FLAMMABLE LIMITS: % LEL: Not Available % UEL: Not Available **AUTOIGNITION TEMPERATURE** Not Available / Not Available
EXTINGUISHING MEDIA: Use National Fire Protection Association (N.F.P.A.) Class B extinguishers (carbon dioxide, dry chemicals or foam). Do NOT use direct water stream.

SPECIAL FIRE FIGHTING PROCEDURES:

Use water spray to keep fire-exposed containers cool. Wear self-contained breathing apparatus; wear goggles if eye protection is not provided

UNUSUAL FIRE EXPLOSION HAZARD:

Keep containers tightly closed. Closed containers may explode when exposed to extreme heat. Do not apply to hot surfaces.

****** V. REACTIVITY DATA ******

STABILITY: Stable **HAZARDOUS POLYMERIZATION (May Occur/Will Not Occur):** Will Not
CONDITIONS TO AVOID: Excessive heat.
INCOMPATIBILITY (materials to avoid): Strong acids, oxidizing agents and reactive metals.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide, carbon monoxide and nitrogen oxides.

****** VI. HEALTH HAZARD DATA ******

EFFECTS OF OVEREXPOSURE: THRESHOLD LIMIT VALUE - See Section III for individual ingredients.
PRIMARY ROUTES OF ENTRY: Inhalation & Skin Contact
SKIN CONTACT/ABSORPTION: Contains alkaline materials that can cause skin burns.
EYE CONTACT: Immediate severe irritation inflammation with possible eye injury. During application of this product, contact lenses should NOT be worn.
INGESTION (Swallowing):
 Contains materials which will cause a burning sensation, gastric upset, diarrhea and severe inflammation to mucous membranes.
INHALATION (Breathing):
 Slight headache. May burn nasal passages.
SUPPLEMENTAL HEALTH INFORMATION:
 All ingredients are NOT carcinogenic, based on the International Agency for Research on Cancer (IARC) and the National Toxicology Program (NTP). 2-Butoxyethanol has caused blood disorders (resulting in kidney, liver, and spleen damage) in long-term studies in laboratory animals. The human red cell is much less sensitive to hemolysis, so these effects in animals may not be relevant to human exposure. Pre-existing blood disorders may be aggravated by exposure to 2-Butoxyethanol. Traces of Ethylene Oxide could accumulate in headspace drums, storage/transport vessels or in enclosed areas where the product is being handled or used.

****** VII. EMERGENCY AND FIRST AID PROCEDURES ******

SKIN CONTACT: IMMEDIATELY wash exposed areas with mild soap and water. Rinse thoroughly with cool water. Pat dry. DO NOT RUB SKIN. Seek medical attention if irritation develops and persists. Wash clothing before reuse.
EYE CONTACT: Flush immediately with water for 15 minutes; CALL A PHYSICIAN
INGESTION (Swallowing): CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. DO NOT attempt to induce vomiting. Give 1 to 2 glasses of milk or water to drink.
INHALATION (Breathing): Remove to fresh air. If breathing difficulty persists or occurs later, consult a physician.

****** VIII. PREVENTIVE MEASURES ******

SPILL OR LEAK PROCEDURES: **STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**
 Keep spectators away. Floor may be slippery; use care to avoid falling. Dike and contain the spill with inert material (sand, earth, fuller's earth, etc.) and if appropriate, transfer the liquid and solid diking material to separate containers for recovery or disposal. Remove contaminated clothing promptly and wash affected skin areas with soap and water. Wash clothing before reuse. Keep spill out of all sewers and open bodies of water.
WASTE DISPOSAL METHOD: Dispose of in accordance with federal, state and local regulations.
SPECIAL PROTECTION INFORMATION: RESPIRATORY PROTECTION and VENTILATION:
 Use with adequate ventilation.
 Local exhaust.
PROTECTIVE GLOVES (specify type): **EYE PROTECTION (specify type)**
 For sensitive skin or prolonged contact, use impervious gloves; i.e. rubber. Chemical splash goggles. Have eye fountain available. Do not wear contact lenses when working with this material.
SKIN PROTECTION: Impervious gloves; i.e., rubber
SPECIAL PRECAUTIONS: PRECAUTIONS TO BE TAKEN IN HANDLING OR STORAGE:
 Store inside in a cool (below 100°F or 37.5°C), dry place. KEEP FROM FREEZING. Store separate from oxidizers.
OTHER PRECAUTIONS: Do not take internally. Avoid prolonged contact with skin; contaminated clothing should be removed immediately. Avoid free fall of liquid in excess of a few inches.