



SERVICEMASTER OF COLUMBUS

Darrel McKathnie
2910 27th Street P O Box 427
Columbus, Nebraska 68601
1-402 563-1722
*Professional Cleaning
Commercial and Residential*

RECEIVED

JAN 29 1990

REMD SECTION

Site	10th Street
ID	DE-92713227
Dr.	Heb...
Ct.	Serv. Master
1-21-90	

January 21, 1990

U S Environmental Protection Agency
Region VII, Superfund Branch
726 Minnesota Avenue
Kansas City, Kansas 66101

2041452



Re Information requested

Dear Miss Trugley,

Darrel L McKathnie (owner - January 2, 1979 - June 1, 1984)
P O Box 427 (present mailing address)
Columbus, NE 68602
Phone 402-563-1722

Building address 1061-25th Avenue
Legal description North 1/3 of North 1/2 Lot 5 Block 117
Original city
Lot size 22' x 66'
Building size 22' x 66'

To my knowledge there were 3 businesses in this building prior to our ownership 1) art gallery 2) ceramic shop 3) meat processing plant

This building had city water and sewer

No underground storage tanks on this property

10th Street
AR102165

During the 5 years that we owned the property, the building was primarily used to store antique furniture. Three households of fire damaged furniture were cleaned and stored in the building. Occasionally, (once a month), an area rug or piece of upholstery was cleaned.

WSL, FiberFresh, and GSL were used to clean upholstery. This solution was applied to the fabric and extracted (vacuumed) out with water. SLP and FiberFresh were used to clean carpet. This was applied and extracted (vacuumed) out with water. For the removal of gum or tar from upholstery or carpet, SolvOil was applied to the spot and extracted out with water. An ounce or less of SolvOil is used to remove each spot of gum or tar. The extracted solution from the furniture and carpet was disposed of in the sanitary sewer (toilet).

Hard surface furniture was cleaned with WallGlide or GlassClene. This was applied and wiped off with towels, and the towels were washed in a washing machine.

Products used in cleaning fire damaged furniture and carpets:

- SolvOil (absolutely no more than 2 gallons were used during the time we occupied the building)
- WallGlide
- GlassClene
- FiberFresh
- GSL
- SLP
- WSL

These were stored in gallon containers.

Material safety data sheets are enclosed.

Sincerely,

Darrel L McKathnie

Darrel L McKathnie

MATERIAL SAFETY DATA SHEET

SECTION I

Product (Trade) Name - SolvOil Pro
Manufacturer's Name - The ServiceMaster Company
Address - 2300 Warrenville Road - Downers Grove, IL 60515
Emergency Telephone No. - (312) 964-1300
Chemical Name and Synonyms - N/A DOT Hazard Class. Flammable Liquid
Chemical Family - N/A D.O.T. ID Number NA 1993
Formula: - N/A Hazardous Waste Classification: D001

SECTION II - HAZARDOUS INGREDIENTS

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>Weight Percent (in the Product as Supplied)</u>	<u>TLV (ACGIH, 1986-87)</u>	<u>Listed as Carcinogenic by IARC, NTP, OSHA, ACGIH</u>
1,1,1-Trichloroethane	71-55-6	60-85	350 ppm TWA	No
Petroleum Naptha	64742-89-8	5-15	500 ppm TWA	No
Toluene	108-88-3	10-20	100 ppm TWA	No

SECTION III - PHYSICAL DATA

Boiling Point (°F)	104	Specific Gravity (H ₂ O = 1)	1.13
Vapor Pressure (mm hg.)	N/D	Percent Volatile By Volume.	100
Vapor Density (Air = 1).	1	Evaporation Rate:	1
Solubility in Water.	Insoluble	(butyl acetate = 1)	
Appearance and Odor	Clear liquid with chlorinated solvent odor.		
pH of Concentrate	N/A		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (deg F.)	66 (open cup) 42 (closed cup)	Flammable Limits:	LEL 1% UEL 7%
Extinguishing Media:	Carbon dioxide, foam, dry chemical.		

Special Fire Fighting Procedures: Fire involving significant quantities may form toxic materials (carbon dioxide, carbon monoxide). Self-contained breathing apparatus and protective clothing should always be worn while fighting fires involving chemicals.

Unusual Fire and Explosion Hazards: Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot light, other flames, sparks, etc. at locations distant from material handling point.

SECTION V - HEALTH HAZARD DATA

Primary Route(s) of Exposure: Inhalation.
Threshold Limit Value: 1130mg/m³ (calculated for the mixture).

Effects of Overexposure

By Inhalation.	Excessive inhalation of vapors can cause nasal and respiratory irritation. Other effects include dizziness, weakness, fatigue. Can cause possible unconsciousness, CNS depression, and death.
By Eye Contact.	May cause severe irritation, redness, and blurred vision.
By Ingestion.	May cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Aspiration into lungs may cause chemical pneumonitis which can be fatal. Rapid absorption through the lungs may result in systemic effects.
By Skin Contact:	Prolonged or repeated contact can cause moderate irritation, defatting of tissue, and dermatitis.

- **Chronic:** Long-term exposure by breathing vapors may cause damage to central nervous system kidneys, liver or other organs. Long-term skin exposure may cause dermatitis.

N/A - Not Applicable

N/D - Not Determined

N/E - Not Established

10th Street
 AR102167

MATERIAL SAFETY DATA SHEET

SECTION I

Product (Trade) Name - WallGlide Plus
 Manufacturer's Name - The ServiceMaster Company
 Address - 2300 Warrenville Road - Downers Grove, IL 60515
 Emergency Telephone No. - (312) 964-1300
 Chemical Name and Synonyms - N/A DOT Hazard Class. Nonhazardous
 Chemical Family - N/A ID Number None
 Formula: - N/A Hazardous Waste Classification Nonhazardous

SECTION II - HAZARDOUS INGREDIENTS

Ingredient	C.A.S. No.	Weight Percent (in the Product as Supplied)	TLV (ACGIH, 1985-86)	Listed as Carcinogenic by IARC, NTP, OSHA, ACGIH
Ethanolamine	141-43-5	5-10	3 ppm	No
Nonhazardous Ingredients (water, surfactants, chelating salt, dye, perfume)		90-95	N/A	No

SECTION III - PHYSICAL DATA

Boiling Point (°F)	> 212	Specific Gravity (H ₂ O = 1)	1.07
Vapor Pressure (mm hg)	N/D	Percent Volatile By Weight	70-75
Vapor Density (Air = 1)	> 1	Evaporation Rate (water = 1)	~1
Solubility in Water	Completely soluble		
Appearance and Odor	Pink liquid with pine odor.		
pH of Concentrate	10.3	pH Diluted for Use.	9-10

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Tag Closed Tester) > 200° Flammable Limits: LEL N/A UEL N/A

Extinguishing Media Water, CO₂

Special Fire Fighting Procedures: Self-contained breathing apparatus and protective clothing should always be worn in fighting fires involving chemicals.

Unusual Fire and Explosion Hazards: None known.

SECTION V - HEALTH HAZARD DATA

Primary Route(s) of Exposure: Skin contact.
 Threshold Limit Value: N/D See Section II for TLV of Hazardous Ingredient.
 Effects of Overexposure
 - Acute
 By Inhalation Possible irritation of respiratory tract.
 By Eye Contact: Irritation
 By Ingestion Gastrointestinal irritation Possible nausea and diarrhea
 By Skin Contact Possible mild irritation
 - Chronic: Repeated or prolonged contact with skin may cause dryness or irritation.
 - Medical Conditions Generally Aggravated by Exposure. None known.

N/A - Not Applicable

N/D - Not Determined

N/E - Not Established

10th Street
AR102168

SECTION V - HEALTH HAZARD DATA (Cont'd)

Emergency and First Aid Procedures

- | | |
|------------------|--|
| For Inhalation | Move to fresh air. If affected person is not breathing, give artificial respiration and get medical attention. |
| For Eye Contact | Flush with water for at least 15 minutes lifting upper and lower lids occasionally. Get medical attention if symptoms persist. |
| For Ingestion | Promptly induce vomiting, get medical attention. |
| For Skin Contact | Immediately flush skin with water for at least 15 minutes. Remove contaminated clothing and launder before reuse. |

SECTION VI - REACTIVITY DATA

- | | |
|---|--|
| Stability: Stable | Conditions to Avoid: None known. |
| Incompatibility (Materials to Avoid) | Chlorine bleaches or other active chlorine. |
| Hazardous Decomposition Products: | On combustion, carbon dioxide, carbon monoxide, and other unidentified products of combustion. |
| Hazardous Polymerization: | Will not occur. |

SECTION VII - SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled - For large spills, eliminate all possible sources of ignition first. Add absorbent and remove with shovel. Or, pick up smaller amounts with a mop and bucket and rinse away residues with water.

Waste Disposal Method - Dispose of large quantities as ignitable hazardous waste. Consign to a waste hauler. Small amounts may be allowed to evaporate in an outdoor location away from sources of ignition.

Dispose of all waste in accordance with local, State, and Federal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

For Handling Product as Supplied

- | | |
|----------------------------|---|
| Respiratory Protection | - If TLV is exceeded, use a NIOSH-approved respirator with cartridges for ammonia and organic vapors. |
| Ventilation | - Use with sufficient ventilation to maintain exposure below TLV. |
| Protective Gloves | - NBR or rubber. |
| Eye Protection | - Chemical splash goggles. |
| Other Protective Equipment | - If splashing occurs when handling concentrate, wear impervious apron and/or clothing as required to avoid skin contact. |

For Handling Product After Dilution For Use

- | | |
|-----------------------------|--|
| Respiratory Protection | - Not normally needed. |
| Ventilation | - Normal ventilation generally satisfactory. |
| Protective Gloves. | - Not normally needed. |
| Eye Protection | - Not normally needed. |
| Other Protective Equipment. | - Not normally needed. |

SECTION IX - SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing: Keep containers closed. Keep away from heat, sparks, and open flame.

Other precautions: Empty container may be hazardous. Rinse thoroughly before disposal.

Prepared By Richard C. Mulhall
Title Microbiologist

Approved by. David L. Coleman
Title. Director, Product Development and Quality Control

Date of Preparation January 13, 1987
Supersedes previous form dated January 1981

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding and Shipbreaking (29 CFR 1915 1916 1917)

SECTION I

MANUFACTURER'S NAME SERVICEMASTER INDUSTRIES INC.		EMERGENCY TELEPHONE NO 312/964-1300
ADDRESS (Number Street City State and ZIP Code) 2300 Warrenville Road, Downers Grove, Illinois 60515		
CHEMICAL NAME AND SYNONYMS N/A		TRADE NAME AND SYNONYMS FiberFresh Concentrate
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS PRESERVATIVES & SOLVENTS	%	TLV (Unit)	ALLOYS AND METALLIC COATINGS	%	TLV (Unit)
PIGMENTS			BASE METAL		(ppm)
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
Ingredients					
Surfactant	5-10%				N/A
Alcohol	4-7%				100
Salts	0.5-3%				N/A
Water	80-90%				N/A
Formaldehyde	< 0.2%				2

SECTION III PHYSICAL DATA

BOILING POINT (°F)	> 212	SPECIFIC GRAVITY (H ₂ O=1)	1.01
VAPOR PRESSURE mm Hg.		PERCENT VOLATILE BY VOLUME (%)	95-97
VAPOR DENSITY (AIR=1)	> 1	EVAPORATION RATE (Water = 1)	~ 1
SOLUBILITY IN WATER	Soluble		
APPEARANCE AND ODOR	Clear, yellowish liquid with cedar odor		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) > 150°F (TOC), 121°F (TCC)	FLAMMABLE LIMITS	LEL	UEL
EXTINGUISHING MEDIA Water, CO ₂ or other media as called for by materials actually involved in fire			
SPECIAL FIRE FIGHTING PROCEDURES None			
UNUSUAL FIRE AND EXPLOSION HAZARDS None			

MATERIAL SAFETY DATA SHEET

SECTION I

Product (Trade) Name - FiberFresh Grease Soil Lifter (GSL)
 Manufacturer's Name - The ServiceMaster Company
 Address - 2300 Warrenville Road - Downers Grove, IL 60515
 Emergency Telephone No. - (312) 964-1300
 Chemical Name and Synonyms - N/A DOT Hazard Class Nonhazardous
 Chemical Family - N/A ID Number None
 Formula: - N/A Hazardous Waste Classification F001

SECTION II - HAZARDOUS INGREDIENTS

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>Weight Percent (in the Product as Supplied)</u>	<u>TLV (ACGIH, 1985-86)</u>	<u>Listed as Carcinogenic by IARC, NTP, OSHA, ACGIH</u>
Diethylene Glycol				
monobutyl Ether	112-35-4	35-45	N/E	No
1,1,1-trichloroethane	71-55-6	35-45	350 ppm	No
Xylene	1330-20-7	5-10	100 ppm	No
<u>Nonhazardous Ingredients</u> (nonionic surfactant)		0-25	N/A	No

SECTION III - PHYSICAL DATA

Boiling Point (°F) (initial)	142	Specific Gravity (H ₂ O = 1)	1.06
Vapor Pressure (mm hg)	N/D	Percent Volatile By Weight.	97
Vapor Density (Air = 1)	> 1	Evaporation Rate: (initial)	> 1
Solubility in Water	Insoluble	(butylacetate = 1)	
Appearance and Odor	Clear, colorless liquid with odor of chlorinated solvent.		
pH of Concentrate.	N/A		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Tag. Closed Tester): > 200°F
 Extinguishing Media: CO₂, foam, dry chemical.

Flammable Limits: LEL	UEL
(For Xylene) 1.1	6.6

Special Fire Fighting Procedures: Fire involving significant quantities may form toxic materials (carbon dioxide, carbon monoxide, acidic products, etc.). Self-contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode recommended.

Unusual Fire and Explosion Hazards: Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, other flames and ignition sources at locations distant from material handling point.

SECTION V - HEALTH HAZARD DATA

Primary Route(s) of Exposure: Inhalation.
Threshold Limit Values: N/D for mixture. See Section II for TLV of Hazardous Ingredients

Effects of Overexposure

- Acute

By Inhalation: Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache or possible unconsciousness.
 By Eye Contact: Can cause irritation.
 By Ingestion: Can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.
 By Skin Contact: Prolonged or repeated contact can cause moderate irritation, defatting, dermatitis.

- **Chronic:** Repeated or prolonged breathing of vapors may cause headache, irritation of respiratory tract. Repeated or prolonged contact with skin may cause defatting, dryness, irritation.
 - **Medical Conditions Generally Aggravated by Exposure:** Pre-existing skin or respiratory disease.

N/A - Not Applicable

N/D - Not Determined

N/E - Not Established

10th Street
 AR102171

SECTION I

SECTION II - HAZARDOUS INGREDIENTS

SECTION III - PHYSICAL DATA

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammable Limits: $\frac{LEL}{N/A}$ $\frac{UEL}{N/A}$

Special Fire Fighting Procedures: Exposure to heat may release hydrogen peroxide or oxygen. Self-contained breathing apparatus and protective clothing should always be worn when fighting fires involving chemicals

SECTION V - HEALTH HAZARD DATA

N/E - Not Established

10th Street
AR102172

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing
Shipbuilding and Shipbreaking (29 CFR 1915 1916 1917)

SECTION I

MANUFACTURER'S NAME SERVICEMASTER INDUSTRIES INC.		EMERGENCY TELEPHONE NO 312/964-1300
ADDRESS (Number Street City State and ZIP Code) 2300 Warrenville Road, Downers Grove, Illinois 60515		
CHEMICAL NAME AND SYNONYMS N/A		TRADE NAME AND SYNONYMS FiberFresh Wool Soil Lifter
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS PRESERVATIVES & SOLVENTS	%	TLV (Unit)	ALLOYS AND METALLIC COATINGS	%	TLV (Unit)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
Ingredients					
Carbonate Salts	-	30-50%			NA
Borate Salts	-	30-50%			NA
Fluorescent Brightening Agent	-	Trace			NA
Inert Ingredients	-	0-40%			NA

SECTION III - PHYSICAL DATA

BOILING POINT (°F)	NA	SPECIFIC GRAVITY (H ₂ O=1) Bulk Density	64 lb/ft ³
VAPOR PRESSURE (mm Hg)	NA	PERCENT VOLATILE BY VOLUME (%)	0
VAPOR DENSITY (AIR=1)	NA	EVAPORATION RATE (_____=1)	NA
SOLUBILITY IN WATER	5-10%		
APPEARANCE AND ODOR	White powder - no distinct odor		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) NA	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA Use water, foam, dry chemical, CO ₂ as required by materials actually involved in fire			
SPECIAL FIRE FIGHTING PROCEDURES None			
UNUSUAL FIRE AND EXPLOSION HAZARDS None			