

# SUPPLIER MATERIAL SAFETY DATA SHEET (MSDS)

N/D=Not Determined

N/A=Not Applicable

**Product:** GEL SPOT**Chem. Name:** N/A**Chem. Family:** Mixture**Manufacturer:** ESTEAM**Trade Name:** Gel-spot**Use:** Spotting agent**Flammability:** 1**Reactivity:** 0**Health:** 1**Protection:**

NFPA LEAST=0, SLIGHT=1, MODERATE=2, HIGH=3, EXTREME=4

**HAZARDOUS INGREDIENTS****CAS #****% WT****HAZARD DATA****EXPOSURE LIMITS (TLV)**

D-limonene

5989-27-5

40-60

LD50 4400 mg/kg (oral-rat)

N/D

**PHYSICAL DATA****Physical State:** Gel**Odor/ Appearance:** Clear, citrus odor**Boiling Point (C):** 100**Freezing Point (C):** -4**Solubility in Water:** N/A**Ph (undiluted):** N/A**Evaporation Rate:** N/D**Specific Gravity:** N/D**Freeze/Thaw****Stable:** Yes**Percent Volatile (vol):** N/D**Vapor Pressure:** N/D**FIRE & EXPLOSION HAZARD****Flammability:** Yes**Means of Extinction:** Dry chemical, CO2**Special Procedures:** Self contained breathing apparatus**Explosion Sensitivity to Impact:** N/A**Chemical Sensitivity to Static Discharge:** N/D**Flashpoint (C) & Method:** N/D**Conditions:** N/A**Hazardous Combustion Products:** CO, CO2**Upper Explosion Limit (% by vol):** N/D**Lower Explosion Limit (% by vol):** N/D**Auto-ignition:** N/D**Rate of Burning:** N/D**Explosive Power:** N/D**TDG/WHMIS:** Non hazardous / D2B, B2**REACTIVITY DATA****Chemical Stability:** Stable under normal conditions**Hazardous Decomposition Product:** Oxides of carbon**Incompatible Substances:** Strong oxidizing agents**TOXICOLOGICAL PROPERTIES****Route of Entry - Skin Contact:** Y  
**Route of Entry - Skin Absorption:** N  
**Route of Entry - Eye Contact:** Y  
**Route of Entry - Inhalation:** Y  
**Route of Entry - Ingestion:** Y**Reproductive Effects Y/N:** N/D  
**Carcinogenicity Y/N:** N/D  
**Mutagenicity Y/N:** N/D  
**Teratogenicity Y/N:** N/D  
**TLV:** N/D**Effects of Overexposure:****Acute Effects:**

Irritant to eyes and skin. Excessive inhalation of vapors may cause nasal and respiratory irritation. If swallowed may cause gastrointestinal irritation.

**Chronic Effects:**

None known

**PREVENTATIVE MEASURES****Gloves:** Impervious  
**Eyes:** Chemical glasses**Footwear:** Not normally required  
**Respirator:** Not normally required**Clothing:** N/A  
**Other:** N/A**Recommended Engineered Controls:**

Use with adequate ventilation.

**Leak & Spill Procedures:**

Soak up with inert absorbent and place in appropriate closed container for disposal.

**Waste Disposal Methods:**

According to federal, provincial and municipal regulations.

**Special Handling Procedures:**

Store in a cool, dry place. Keep closed when not in use.

**FIRST AID MEASURES****Inhalation:** Move person to fresh air. If necessary give artificial respiration or oxygen. Call a doctor if in distress.**Ingestion:** Immediately rinse mouth and throat thoroughly with water. Call a physician.**Eye Contact:** Immediately flush eyes with running water for at least 15 minutes. Contact a physician if irritation persists.**Skin Contact:** Immediately flush skin with running water for at least 15 minutes. Launder clothing before reuse. If irritation persists get medical attention.**Prep./Revised Date:** January 8, 2010**Prepared By:** R. Russell**Source Material:** Manufacturer's MSDS**Emergency Response:** 1-613-996-6666 (Transport Emergencies)**Mailing Address:** Esteam Manufacturing Ltd.  
3750-19th Street NE Calgary, AB T2E 6V2

This information is complete to the best of our knowledge, however, users are encouraged to make their own investigations into the suitability of the information to their particular purposes. READ THE LABEL before using this or any product, and take any necessary precautions, dictated by the label or by common sense to ensure that your health is protected.

# SUPPLIER MATERIAL SAFETY DATA SHEET (MSDS)

N/D=Not Determined  
N/A=Not Applicable

**Product:** LIQUID DRYCLEANER

**Manufacturer:** ESTEAM

**Flammability:** 1

**Chem. Name:** N/A

**Trade Name:** Liquid DryCleaner

**Reactivity:** 0

**Chem. Family:** Chlorinated solvent

**Use:** Cleaning agent

**Health:** 2

**Protection:**

NFPA LEAST=0, SLIGHT=1, MODERATE=2, HIGH=3, EXTREME=4

## HAZARDOUS INGREDIENTS

Trichloroethylene  
Isoparaffinic Naptha

### CAS #

79-01-6  
64741-65-7

### % WT

60-100  
10-30

### HAZARD DATA

LD50 4920 mg/kg (oral-rat)  
LD50 >8000mg/kg (oral-rat)

### EXPOSURE LIMITS (TLV)

50 ppm TWA  
N/A

## PHYSICAL DATA

**Physical State:** Liquid

**Odor/ Appearance:** Clear, light, solvent odour

**Boiling Point (C):** N/D

**Freezing Point (C):** N/D

**Solubility in Water:** N/D

**Ph (undiluted):** N/A

**Evaporation Rate:** N/D

**Specific Gravity:** N/D

### Freeze/Thaw

**Stable:** Doesn't freeze

**Percent Volatile (vol):** N/D

**Vapor Pressure:** N/D

## FIRE & EXPLOSION HAZARD

**Flammability:** N

**Means of Extinction:** Foam, CO<sub>2</sub>, Dry Chemical

**Special Procedures:** Do not use water.

**Explosion Sensitivity to Impact:** N/D

**Chemical Sensitivity to Static Discharge:** N/D

**Flashpoint (C) & Method:** None

### Conditions:

**Hazardous Combustion Products:** N/D

**Upper Explosion Limit (% by vol):** N/D

**Lower Explosion Limit (% by vol):** N/D

**Auto-ignition:** N/D

**Rate of Burning:** N/D

**Explosive Power:** N/D

Less than 5 Lt classified as Limited Quantities.

**TDG/WHMIS:** Trichloroethylene Class 6.1  
UN 1710 PG III / D, D2B

## REACTIVITY DATA

**Chemical Stability:** Stable

**Incompatible Substances:** Water, oxidizing materials

**Hazardous Decomposition Product:** CO, CO<sub>2</sub>, smoke, Hydrogen Chloride, Phosgene (small amounts), Chlorine (small amounts)

## TOXICOLOGICAL PROPERTIES

**Route of Entry - Skin Contact:** Y  
**Route of Entry - Skin Absorption:** N  
**Route of Entry - Eye Contact:** Y  
**Route of Entry - Inhalation:** Y  
**Route of Entry - Ingestion:** N

**Reproductive Effects Y/N:** N/D  
**Carcinogenicity Y/N:** N/D  
**Mutagenicity Y/N:** N/D  
**Teratogenicity Y/N:** N/D  
**TLV:** N/D

### Effects of Overexposure:

#### Acute Effects:

May cause mild eye and skin irritation on contact. Inhalation may cause dizziness, drunkenness and drowsiness, unconsciousness and even death in extreme doses. Exposures in 1000 ppm range can cause narcosis.

#### Chronic Effects:

Prolonged or repeated contact can cause dermatitis through defatting of the skin.

## PREVENTATIVE MEASURES

**Gloves:** Solvent resistant  
**Eyes:** Chemical goggles

**Footwear:** N/A  
**Respirator:** N/A

**Clothing:** N/A  
**Other:** Eye wash station

### Recommended Engineered Controls:

Use with adequate ventilation. Local exhaust recommended.

### Leak & Spill Procedures:

Evacuate area, avoid vapours, contain spill. Mop or absorb material and collect to a closed container for disposal.

### Waste Disposal Methods:

According to federal, provincial and municipal regulations.

### Special Handling Procedures:

Avoid skin contact, do not breath vapours. Store in a cool, dry, well ventilated area. Vapours will collect in low areas.

## FIRST AID MEASURES

**Inhalation:** Move person to fresh air. If necessary give artificial respiration or oxygen. Call a doctor if in distress.

**Ingestion:** Do not induce vomiting. Contact a physician or poison centre immediately.

**Eye Contact:** Immediately flush eyes with running water for at least 15 minutes. Contact a physician if irritation persists.

**Skin Contact:** Immediately flush skin for at least 15 minutes. Launder clothing before reuse. Contact a physician if irritation persists.

**Prep./Revised Date:** January 8, 2010

**Prepared By:** R. Russell

**Source Material:** Manufacturer's MSDS

**Emergency Response:** 1-613-996-6666 (Transport Emergencies)

**Mailing Address:** Esteam Manufacturing Ltd.  
3750-19th Street NE Calgary, AB T2E 6V2



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N/D=Not Determined  
N/A=Not Applicable

<b>Product:</b> P.O.G.	<b>Manufacturer:</b> ESTEAM	<b>Flammability:</b> 2
<b>Chem. Name:</b> N/A	<b>Trade Name:</b> Paint, oil, grease remover	<b>Reactivity:</b> 0
<b>Chem. Family:</b> Mixture	<b>Use:</b> Carpet spotting compound	<b>Health:</b> 2
		<b>Protection:</b>

NFPA LEAST=0, SLIGHT=1, MODERATE=2, HIGH=3, EXTREME=4

HAZARDOUS INGREDIENTS	CAS #	% WT	HAZARD DATA	EXPOSURE LIMITS (TLV)
Petroleum Distillate	64741-65-7	60-100	LD50 > 8000 mg/kg (oral-rat)	N/A
Primary Amyl Acetate	628-63-7	5-10	LD50 6500 mg/kg (oral-rat)	TWA 100 ppm

PHYSICAL DATA				Freeze/Thaw
<b>Physical State:</b> Liquid	<b>Boiling Point (C):</b> 176.6	<b>Solubility in Water:</b> Slight	<b>Evaporation Rate:</b> N/D	<b>Stable:</b> Doesn't freeze
<b>Odor/ Appearance:</b> Clear, banana odour	<b>Freezing Point (C):</b> N/D	<b>Ph (undiluted):</b> N/A	<b>Specific Gravity:</b> Approx. 0.75	<b>Percent Volatile (vol):</b> N/D
				<b>Vapor Pressure:</b> N/D

FIRE & EXPLOSION HAZARD		Conditions:	TDG/WHMIS:
<b>Flammability:</b> Y	<b>Means of Extinction:</b> CO2, Dry chemical, Foam	Excessive heat, flames.	Non Hazardous / B2, D2B
<b>Special Procedures:</b> Exclude air. SCBA. Treat as flammable	<b>Explosion Sensitivity to Impact:</b> N/A	<b>Hazardous Combustion Products:</b> N/A	
<b>Chemical Sensitivity to Static Discharge:</b> N/A	<b>Flashpoint (C) &amp; Method:</b> 43 (TCC)	<b>Upper Explosion Limit (% by vol):</b> N/D	
		<b>Lower Explosion Limit (% by vol):</b> N/D	
		<b>Auto-ignition:</b> N/D	
		<b>Rate of Burning:</b> N/A	
		<b>Explosive Power:</b> N/A	

REACTIVITY DATA	Chemical Stability:	Incompatible Substances:
<b>Hazardous Decomposition Product:</b> CO, CO2	Stable	N/D

TOXICOLOGICAL PROPERTIES			Effects of Overexposure:
<b>Route of Entry - Skin Contact:</b> Y	<b>Reproductive Effects Y/N:</b> N	<b>Acute Effects:</b>	Inhalation may be irritating. Eye and skin contact may cause moderate irritation.
<b>Route of Entry - Skin Absorption:</b> N	<b>Carcinogenicity Y/N:</b> N	<b>Chronic Effects:</b>	
<b>Route of Entry - Eye Contact:</b> Y	<b>Mutagenicity Y/N:</b> N	Frequent or prolonged contact may irritate skin.	
<b>Route of Entry - Inhalation:</b> Y	<b>Teratogenicity Y/N:</b> N/D		
<b>Route of Entry - Ingestion:</b> Y	<b>TLV:</b> 50 ppm OSHA PEL		

PREVENTATIVE MEASURES	Gloves:	Footwear:	Clothing:
	Solvent proof for prolonged contact	N/A	N/A
	<b>Eyes:</b> Goggles/side shield	<b>Respirator:</b> NIOSH approved	<b>Other:</b> None

<b>Recommended Engineered Controls:</b> Use with adequate ventilation.	<b>Leak &amp; Spill Procedures:</b> Soak up with inert absorbent material and gather in a container for disposal. Keep away from sewers and waterways.	<b>Waste Disposal Methods:</b> According to federal, provincial and municipal regulations.	<b>Special Handling Procedures:</b> Store in a cool, dry place. Keep closed when not in use.
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FIRST AID MEASURES	
<b>Inhalation:</b>	Move person to fresh air. If necessary give artificial respiration or oxygen. Call a doctor if in distress.
<b>Ingestion:</b>	Do not induce vomiting. Prevent aspiration. Contact a physician or poison centre immediately.
<b>Eye Contact:</b>	Immediately flush eyes with running water for at least 15 minutes. Contact a physician if irritation persists.
<b>Skin Contact:</b>	Immediately flush skin for at least 15 minutes. Launder clothing before reuse. Contact a physician if irritation persists.

<b>Prep./Revised Date:</b> January 8, 2010	<b>Mailing Address:</b> Esteam Manufacturing Ltd. 3750-19th Street NE Calgary, AB T2E 6V2
<b>Prepared By:</b> R. Russell	
<b>Source Material:</b> Manufacturer's MSDS	
<b>Emergency Response:</b> 1-613-996-6666 (Transport Emergencies)	



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# SUPPLIER MATERIAL SAFETY DATA SHEET (MSDS) N/D=Not Determined N/A=Not Applicable

**Product:** Pet Stain & Odor Remover

**Manufacturer:** ESTEAM

**Flammability:** 0

**Chem. Name:** N/A

**Trade Name:** Pet Stain & Odor Remover

**Reactivity:** 0

**Chem. Family:** N/A

**Use:** Odor neutralizer & stain remover

**Health:** 1

**Protection:**

NFPA LEAST=0, SLIGHT=1, MODERATE=2, HIGH=3, EXTREME=4

## HAZARDOUS INGREDIENTS

Sodium Metabisphite  
Dipropylene Glycol Monopropyl Ether  
Sod, Tripolyphosphate

**CAS #**  
7681-57-4  
29911-27-1  
7758-29-4

**% WT**  
1-5  
1-5  
1-5

**HAZARD DATA**  
LD/50 1540 mg/kg (oral-rat)  
LD/50 1620 mg/kg (oral-rat)  
LD/50 3900 mg/kg (oral-rat)

**EXPOSURE LIMITS (TLV)**  
5 mg/m3  
N/A  
N/A

## PHYSICAL DATA

**Physical State:** Liquid

**Odor/Appearance:** Yellow liquid,  
lemon scent

**Boiling Point (C):** N/D  
**Freezing Point (C):** 0

**Solubility in Water:** 100%  
**Ph (undiluted):** 6.6

**Evaporation Rate:** N/D  
**Specific Gravity:** N/D

**Freeze/Thaw**

**Stable:** Yes

**Percent Volatile (vol):** N/D

**Vapor Pressure:** As water

## FIRE & EXPLOSION HAZARD

**Flammability:** N

**Means of Extinction:** N/A

**Special Procedures:** N/A

**Explosion Sensitivity to Impact:** N/A

**Chemical Sensitivity to Static Discharge:** N/A

**Flashpoint (C) & Method:** N/A

**Conditions:** N/A

**Hazardous Combustion Products:** N/A

**Upper Explosion Limit (% by vol):** N/A

**Lower Explosion Limit (% by vol):** N/A

**Auto-ignition:** N/A

**Rate of Burning:** N/A

**Explosive Power:** N/A

**TDG/WHMIS:** Non hazardous /D2B

## REACTIVITY DATA

**Chemical Stability:** Stable

**Hazardous Decomposition Product:** Sulphur dioxide

**Incompatible Substances:** Strong oxidizers

## TOXICOLOGICAL PROPERTIES

**Route of Entry - Skin Contact:** Y  
**Route of Entry - Skin Absorption:** N  
**Route of Entry - Eye Contact:** Y  
**Route of Entry - Inhalation:** Y  
**Route of Entry - Ingestion:** Y

**Reproductive Effects Y/N:** N  
**Carcinogenicity Y/N:** N  
**Mutagenicity Y/N:** N  
**Teratogenicity Y/N:** N  
**TLV:** N/D

**Effects of Overexposure:**

**Acute Effects:**

Bacterial infection may occur through open wounds or broken skin. May cause eye irritation, and defatting of the skin.

**Chronic Effects:**

None

## PREVENTATIVE MEASURES

**Gloves:** Rubber  
**Eyes:** Goggles

**Footwear:** N/A  
**Respirator:** N/A

**Clothing:** N/A  
**Other:** N/A

**Recommended Engineered Controls:**

Use with adequate ventilation.

**Leak & Spill Procedures:**

Rinse spill area thoroughly with clear water.

**Waste Disposal Methods:**

According to federal, provincial and municipal regulations.

**Special Handling Procedures:**

Avoid eye contact. Avoid breathing spray mist. Keep out of reach of children.

## FIRST AID MEASURES

**Inhalation:** Move person to fresh air. If allergic respiratory reaction should occur, seek medical attention.

**Ingestion:** Drink large amounts of water and get medical attention.

**Eye Contact:** Immediately flush eyes with running water for at least 15 minutes. Contact a physician if irritation persists.

**Skin Contact:** Wash with soap and running water.

**Prep./Revised Date:** January 8, 2010

**Prepared By:** R. Russell

**Source Material:** Manufacturer's MSDS

**Emergency Response:** 1-613-996-6666 (Transport Emergencies)

**Mailing Address:** Esteam Manufacturing Ltd.  
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# SUPPLIER MATERIAL SAFETY DATA SHEET (MSDS)

N/D=Not Determined  
N/A=Not Applicable

**Product:** RUST REMOVER

**Manufacturer:** ESTEAM

**Flammability:** 0

**Chem. Name:** N/A

**Trade Name:** Rust Remover

**Reactivity:** 0

**Chem. Family:** Mixture

**Use:** Removal of rust, metallic and other stains

**Health:** 2

**Protection:**

NFPA LEAST=0, SLIGHT=1, MODERATE=2, HIGH=3, EXTREME=4

## HAZARDOUS INGREDIENTS

Phosphoric Acid  
Oxalic Acid  
2-Butoxyethanol

**CAS #**  
7664-38-2  
144627  
111-76-2

**% WT**  
1-5  
1-5  
1-5

**HAZARD DATA**  
LD50 1530 mg/kg (oral-rat)  
LD50 475 mg/kg (oral-rat)  
LD50 1746 mg/kg (oral-rat)

**EXPOSURE LIMITS (TLV)**  
1 mg/m3  
2 mg/m3  
25 ppm TWA

## PHYSICAL DATA

**Physical State:** Liquid

**Odor/ Appearance:** Clear, sharp odor

**Boiling Point (C):** 100  
**Freezing Point (C):** 0

**Solubility in Water:** 100%  
**Ph (undiluted):** 0.6

**Evaporation Rate:** N/D  
**Specific Gravity:** N/D

**Freeze/Thaw**

**Stable:** Yes

**Percent Volatile (vol):** N/D

**Vapor Pressure:** N/D

## FIRE & EXPLOSION HAZARD

**Flammability:** N

**Means of Extinction:** All types

**Special Procedures:** Spray water to cool & control vapours

**Explosion Sensitivity to Impact:** N/A

**Chemical Sensitivity to Static Discharge:** N/A

**Flashpoint (C) & Method:** N/A

**Conditions:** N/A

**Hazardous Combustion Products:** Phosphorous oxide

**Upper Explosion Limit (% by vol):** N/A

**Lower Explosion Limit (% by vol):** N/A

**Auto-ignition:** N/A

**Rate of Burning:** N/A

**Explosive Power:** N/A

**TDG/WHMIS:** Non hazardous / E, D2B

## REACTIVITY DATA

**Chemical Stability:** Stable

**Hazardous Decomposition Product:** None

**Incompatible Substances:** Bases, sulphides, phosphides, cyanides, acetylides, fluorides, silicocide and carbides.

## TOXICOLOGICAL PROPERTIES

**Route of Entry - Skin Contact:** Y  
**Route of Entry - Skin Absorption:** N  
**Route of Entry - Eye Contact:** Y  
**Route of Entry - Inhalation:** Y  
**Route of Entry - Ingestion:** Y

**Reproductive Effects Y/N:** N/D  
**Carcinogenicity Y/N:** N  
**Mutagenicity Y/N:** N  
**Teratogenicity Y/N:** N  
**TLV:** N/D

### Effects of Overexposure:

#### Acute Effects:

May cause severe skin irritation. If splashed in eyes, may cause severe burns or permanent eye damage. Inhalation of mist may cause nose and throat irritation. Ingestion may cause burns to the mouth & throat, pain in the stomach, nausea, vomiting, diarrhea & convulsions. In severe cases collapse and death.

#### Chronic Effects:

Skin contact may cause dermatitis.

## PREVENTATIVE MEASURES

**Gloves:** Rubber  
**Eyes:** Goggles

**Footwear:** Rubber Boots  
**Respirator:** N/A

**Clothing:** Resistant coveralls  
**Other:** N/A

### Recommended Engineered Controls:

Use with adequate ventilation.

### Leak & Spill Procedures:

Recover liquid into a sealed plastic container for disposal. Neutralize area with soda ash or lime and flush with water.

### Waste Disposal Methods:

According to federal, provincial and municipal regulations.

### Special Handling Procedures:

Store in a plastic or acid resistant container in a clean dry area.

## FIRST AID MEASURES

**Inhalation:** Move person to fresh air. If necessary give artificial respiration or oxygen. Call a doctor if in distress.

**Ingestion:** Do not induce vomiting. Rinse mouth several times with cold water. Drink large amounts of water. Seek medical attention.

**Eye Contact:** Immediately flush eyes with running water for at least 15 minutes. Contact a physician if irritation persists.

**Skin Contact:** Immediately flush skin for at least 15 minutes. Launder clothing before reuse. Contact a physician if irritation persists.

**Prep./Revised Date:** January 8, 2010

**Prepared By:** R. Russell

**Source Material:** Manufacturer's MSDS

**Emergency Response:** 1-613-996-6666 (Transport Emergencies)

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# SUPPLIER MATERIAL SAFETY DATA SHEET (MSDS) N/D=Not Determined N/A=Not Applicable

**Product:** STAIN GONE

**Manufacturer:** ESTEAM

**Flammability:** 0

**Chem. Name:** N/A

**Trade Name:** Stain Gone

**Reactivity:** 0

**Chem. Family:** N/A

**Use:** Enzyme carpet stain remover

**Health:** 2

**Protection:**

NFPA LEAST=0, SLIGHT=1, MODERATE=2, HIGH=3, EXTREME=4

**HAZARDOUS INGREDIENTS**

**CAS #**

**% WT**

**HAZARD DATA**

**EXPOSURE LIMITS (TLV)**

None known

## PHYSICAL DATA

**Physical State:** Liquid

**Boiling Point (C):** N/D

**Solubility in Water:** 100%

**Evaporation Rate:** N/D

**Freeze/Thaw**

**Stable:** Yes

**Percent Volatile (vol):** N/D

**Odor/ Appearance:** Gold liquid, lemon scent

**Freezing Point (C):** 0

**Ph (undiluted):** 7.9

**Specific Gravity:** N/D

**Vapor Pressure:** As water

## FIRE & EXPLOSION HAZARD

**Flammability:** N

**Means of Extinction:** N/A

**Special Procedures:** N/A

**Explosion Sensitivity to Impact:** N/A

**Chemical Sensitivity to Static Discharge:** N/A

**Flashpoint (C) & Method:** N/A

**Conditions:** N/A

**Hazardous Combustion Products:** N/A

**Upper Explosion Limit (% by vol):** N/A

**Lower Explosion Limit (% by vol):** N/A

**Auto-ignition:** N/A

**Rate of Burning:** N/A

**Explosive Power:** N/A

**TDG/WHMIS:** Non hazardous / Not regulated

## REACTIVITY DATA

**Chemical Stability:** Stable

**Hazardous Decomposition Product:** None

**Incompatible Substances:** None

## TOXICOLOGICAL PROPERTIES

**Route of Entry - Skin Contact:** Y  
**Route of Entry - Skin Absorption:** N  
**Route of Entry - Eye Contact:** Y  
**Route of Entry - Inhalation:** Y  
**Route of Entry - Ingestion:** Y

**Reproductive Effects Y/N:** N  
**Carcinogenicity Y/N:** N  
**Mutagenicity Y/N:** N  
**Teratogenicity Y/N:** N  
**TLV:** N/D

**Effects of Overexposure:**

**Acute Effects:**

May cause gastric distress, eye irritation, and defatting of the skin.

**Chronic Effects:**

May cause an allergic respiratory reaction in sensitive individuals, resulting in breathlessness, coughing or chest tightness.

## PREVENTATIVE MEASURES

**Gloves:** Rubber

**Footwear:** N/A

**Clothing:** N/A

**Eyes:** Goggles

**Respirator:** N/A

**Other:** N/A

**Recommended Engineered Controls:**

Use with adequate ventilation.

**Leak & Spill Procedures:**

Rinse spill area thoroughly with clear water.

**Waste Disposal Methods:**

According to federal, provincial and municipal regulations.

**Special Handling Procedures:**

Avoid eye contact. Avoid breathing spray mist. Keep out of reach of children.

## FIRST AID MEASURES

**Inhalation:** Move person to fresh air. If allergic respiratory reaction should occur, seek medical attention.

**Ingestion:** Drink large amounts of water and get medical attention.

**Eye Contact:** Immediately flush eyes with running water for at least 15 minutes. Contact a physician if irritation persists.

**Skin Contact:** Wash with soap and running water.

**Prep./Revised Date:** January 8, 2010

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N/D=Not Determined  
N/A=Not Applicable

**Product:** SUPER SPOTTER

**Manufacturer:** ESTEAM

**Flammability:** 0

**Chem. Name:** N/A

**Trade Name:** Super spotter

**Reactivity:** 0

**Chem. Family:** Mixture

**Use:** Carpet spotting compound

**Health:** 2

**Protection:**

NFPA LEAST=0, SLIGHT=1, MODERATE=2, HIGH=3, EXTREME=4

## HAZARDOUS INGREDIENTS

2-Butoxyethanol  
Primary Amyl Acetate

**CAS #**  
111-76-2  
628-63-7

**% WT**  
1-5  
1-4

**HAZARD DATA**  
LD50 1746 mg/kg (oral-rat)  
LD50 6500 mg/kg (oral-rat)

**EXPOSURE LIMITS (TLV)**  
25 ppm TWA  
100 ppm TWA

## PHYSICAL DATA

**Physical State:** Liquid

**Odor/Appearance:** Clear, candy odor

**Boiling Point (C):** N/D  
**Freezing Point (C):** N/D

**Solubility in Water:** Excellent  
**Ph (undiluted):** 6.7

**Evaporation Rate:** N/D  
**Specific Gravity:** N/D

**Freeze/Thaw**

**Stable:** Yes

**Percent Volatile (vol):** N/D

**Vapor Pressure:** N/D

## FIRE & EXPLOSION HAZARD

**Flammability:** N

**Means of Extinction:** N/A

**Special Procedures:** N/A

**Explosion Sensitivity to Impact:** N/A

**Chemical Sensitivity to Static Discharge:** N/A

**Flashpoint (C) & Method:** N/A

**Conditions:** N/A

**Hazardous Combustion Products:** N/A

**Upper Explosion Limit (% by vol):** N/A

**Lower Explosion Limit (% by vol):** N/A

**Auto-ignition:** N/A

**Rate of Burning:** N/A

**Explosive Power:** N/A

**TDG/WHMIS:** Non hazardous / D2B

## REACTIVITY DATA

**Chemical Stability:** Stable

**Hazardous Decomposition Product:** None known

**Incompatible Substances:** None known

## TOXICOLOGICAL PROPERTIES

**Route of Entry - Skin Contact:** Y  
**Route of Entry - Skin Absorption:** Y  
**Route of Entry - Eye Contact:** Y  
**Route of Entry - Inhalation:** N  
**Route of Entry - Ingestion:** Y

**Reproductive Effects Y/N:** N/D  
**Carcinogenicity Y/N:** N/D  
**Mutagenicity Y/N:** N/D  
**Teratogenicity Y/N:** N/D  
**TLV:** N/D

**Effects of Overexposure:**

**Acute Effects:**

May cause eye and skin irritation. May be harmful if swallowed. Inhalation of fumes may cause irritation.

**Chronic Effects:**

Repeated or prolonged contact may cause defatting dermatitis.

## PREVENTATIVE MEASURES

**Gloves:** Rubber recommended  
**Eyes:** Chemical goggles

**Footwear:** N/A  
**Respirator:** N/A

**Clothing:** N/A  
**Other:** N/A

**Recommended Engineered Controls:**

Use with adequate ventilation. Local exhaust recommended.

**Leak & Spill Procedures:**

Mop up excess. Flush with water to a sanitary sewer.

**Waste Disposal Methods:**

According to federal, provincial and municipal regulations.

**Special Handling Procedures:**

Keep container tightly closed. Store in a cool, dry place away from children.

## FIRST AID MEASURES

**Inhalation:** Move person to fresh air. If necessary give artificial respiration or oxygen. Call a doctor if in distress.

**Ingestion:** Contact a physician.

**Eye Contact:** Immediately flush eyes with running water for at least 15 minutes. Contact a physician if irritation persists.

**Skin Contact:** Immediately flush skin for at least 15 minutes. Launder clothing before reuse. Contact a physician if irritation persists.

**Prep./Revised Date:** January 8, 2010

**Prepared By:** R. Russell

**Source Material:** Manufacturer's MSDS

**Emergency Response:** 1-613-996-6666 (Transport Emergencies)

**Mailing Address:** Esteam Manufacturing Ltd.  
3750-19th Street NE Calgary, AB T2E 6V2



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# SUPPLIER MATERIAL SAFETY DATA SHEET (MSDS)

N/D=Not Determined  
N/A=Not Applicable

**Product:** TANNIN REMOVER

**Manufacturer:** ESTEAM

**Flammability:** 0

**Chem. Name:** N/A

**Trade Name:** Tannin remover

**Reactivity:** 0

**Chem. Family:** Mixture

**Use:** Coffee and tea stain remover for carpets

**Health:** 1

**Protection:**

NFPA LEAST=0, SLIGHT=1, MODERATE=2, HIGH=3, EXTREME=4

## HAZARDOUS INGREDIENTS

Alkyl Dimethyl Benzyl Ammonium Chloride  
Acetic Acid

**CAS #**  
68424-85-1  
64-19-7

**% WT**  
1-5  
1-5

**HAZARD DATA**  
Acute oral LD50 (rat) 404 mg/kg  
LD50 3310 mg/kg (oral-rat)

**EXPOSURE LIMITS (TLV)**  
N/D  
10 ppm

## PHYSICAL DATA

**Physical State:** Liquid

**Boiling Point (C):** 100

**Solubility in Water:** 100%

**Evaporation Rate:** N/D

**Freeze/Thaw**

**Stable:** Yes

**Percent Volatile (vol):** 0%

**Odor/Appearance:** Cloudy liquid, vinegar odor

**Freezing Point (C):** 0

**Ph (undiluted):** 4.5

**Specific Gravity:** N/D

**Vapor Pressure:** N/D

## FIRE & EXPLOSION HAZARD

**Flammability:** N

**Means of Extinction:** N/A

**Special Procedures:** N/A

**Explosion Sensitivity to Impact:** N/A

**Chemical Sensitivity to Static Discharge:** N/A

**Flashpoint (C) & Method:** N/A

**Conditions:** N/A

**Hazardous Combustion Products:** N/A

**Upper Explosion Limit (% by vol):** N/A

**Lower Explosion Limit (% by vol):** N/A

**Auto-ignition:** N/A

**Rate of Burning:** N/A

**Explosive Power:** N/A

**TDG/WHMIS:** Non hazardous / D2B

## REACTIVITY DATA

**Chemical Stability:** Stable

**Hazardous Decomposition Product:** None

**Incompatible Substances:** None

## TOXICOLOGICAL PROPERTIES

**Route of Entry - Skin Contact:** Y  
**Route of Entry - Skin Absorption:** N  
**Route of Entry - Eye Contact:** Y  
**Route of Entry - Inhalation:** N  
**Route of Entry - Ingestion:** Y

**Reproductive Effects Y/N:** N/D  
**Carcinogenicity Y/N:** N/D  
**Mutagenicity Y/N:** N/D  
**Teratogenicity Y/N:** N/D  
**TLV:** N/D

### Effects of Overexposure:

#### Acute Effects:

May cause irritation if inhaled. Will cause irritation of membranes of mouth and throat. Nausea, abdominal pain, vomiting, diarrhea and headache may result. Will cause eye irritation.

#### Chronic Effects:

Frequent or prolonged exposure may cause defatting of the skin resulting in dermatitis.

## PREVENTATIVE MEASURES

**Gloves:** N/A  
**Eyes:** N/A

**Footwear:** N/A

**Respirator:** Organic vapour is recommended

**Clothing:** N/A

**Other:** N/A

### Recommended Engineered Controls:

Use with adequate ventilation.

### Leak & Spill Procedures:

Soak up with absorbent material and flush area to a sanitary sewer.

### Waste Disposal Methods:

According to federal, provincial and municipal regulations.

### Special Handling Procedures:

Avoid eye contact. Avoid breathing vapours.

## FIRST AID MEASURES

**Inhalation:** Move person to fresh air. If necessary give artificial respiration or oxygen. Call a doctor if in distress.

**Ingestion:** Contact a physician. Give two glasses of water.

**Eye Contact:** Immediately flush eyes with running water for at least 15 minutes. Contact a physician if irritation persists.

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

**Prep./Revised Date:** January 8, 2010

**Prepared By:** R. Russell

**Source Material:** Manufacturer's MSDS

**Emergency Response:** 1-613-996-6666 (Transport Emergencies)

**Mailing Address:** Esteam Manufacturing Ltd.  
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# SUPPLIER MATERIAL SAFETY DATA SHEET (MSDS)

N/D=Not Determined  
N/A=Not Applicable

**Product:** VANISH # 1

**Manufacturer:** ESTEAM

**Flammability:** 0

**Chem. Name:** N/A

**Trade Name:** Vanish # 1

**Reactivity:** 1

**Chem. Family:** Mixture

**Use:** Part 1 of a 2 part stain remover

**Health:** 1

**Protection:**

NFPA LEAST=0, SLIGHT=1, MODERATE=2, HIGH=3, EXTREME=4

## HAZARDOUS INGREDIENTS

Aqua Ammonia  
Isopropanol

**CAS #**  
1336-21-5  
67-63-0

**% WT**  
<4  
<2

**HAZARD DATA**  
LD50 350 mg/kg (oral-rat)  
LD50 5045 kg/kg (oral-rat)

**EXPOSURE LIMITS (TLV)**  
25 ppm  
400 ppm

## PHYSICAL DATA

**Physical State:** Liquid

**Odor/ Appearance:** Clear, mild ammonia odor

**Boiling Point (C):** 100

**Freezing Point (C):** 0

**Solubility in Water:** Complete

**Ph (undiluted):** 11.4

**Evaporation Rate:** N/D

**Specific Gravity:** 1.0

**Freeze/Thaw**

**Stable:** Yes

**Percent Volatile (vol):** N/D

**Vapor Pressure:** N/D

## FIRE & EXPLOSION HAZARD

**Flammability:** N

**Means of Extinction:** N/A

**Special Procedures:** N/A

**Explosion Sensitivity to Impact:** N/A

**Chemical Sensitivity to Static Discharge:** N/A

**Flashpoint (C) & Method:** N/A

**Conditions:** N/A

**Hazardous Combustion Products:** N/A

**Upper Explosion Limit (% by vol):** N/A

**Lower Explosion Limit (% by vol):** N/A

**Auto-ignition:** N/A

**Rate of Burning:** N/A

**Explosive Power:** N/A

**TDG/WHMIS:** Non hazardous / D2B

## REACTIVITY DATA

**Chemical Stability:** Stable

**Hazardous Decomposition Product:** None

**Incompatible Substances:** None

## TOXICOLOGICAL PROPERTIES

**Route of Entry - Skin Contact:** N  
**Route of Entry - Skin Absorption:** N  
**Route of Entry - Eye Contact:** Y  
**Route of Entry - Inhalation:** N  
**Route of Entry - Ingestion:** Y

**Reproductive Effects Y/N:** N/D  
**Carcinogenicity Y/N:** N/D  
**Mutagenicity Y/N:** N/D  
**Teratogenicity Y/N:** N/D  
**TLV:** N/D

**Effects of Overexposure:**

**Acute Effects:**

May cause skin and eye irritation.

**Chronic Effects:**

Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation.

## PREVENTATIVE MEASURES

**Gloves:** N/A

**Eyes:** Chemical goggles

**Footwear:** N/A

**Respirator:** N/A

**Clothing:** N/A

**Other:** N/A

**Recommended Engineered Controls:**

Use with adequate ventilation.

**Leak & Spill Procedures:**

Small quantities may be diluted with water and flushed to a sanitary sewer.

**Waste Disposal Methods:**

According to federal, provincial and municipal regulations.

**Special Handling Procedures:**

Keep out of reach of children.

## FIRST AID MEASURES

**Inhalation:** Move person to fresh air. If necessary give artificial respiration or oxygen. Call a doctor if in distress.

**Ingestion:** Contact a physician.

**Eye Contact:** Immediately flush eyes with running water for at least 15 minutes. Contact a physician if irritation persists.

**Skin Contact:** Immediately flush skin for at least 15 minutes. Launder clothing before reuse. Contact a physician if irritation persists.

**Prep./Revised Date:** January 8, 2010

**Prepared By:** R. Russell

**Source Material:** Manufacturer's MSDS

**Emergency Response:** 1-613-996-6666 (Transport Emergencies)

**Mailing Address:** Esteam Manufacturing Ltd.  
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# SUPPLIER MATERIAL SAFETY DATA SHEET (MSDS)

N/D=Not Determined  
N/A=Not Applicable

**Product:** VANISH PART 2

**Chem. Name:** N/A

**Chem. Family:**

**Manufacturer:** ESTEAM

**Trade Name:** Vanish part 2

**Use:** Part 2 of a 2 part stain remover

**Flammability:** 0

**Reactivity:** 1 **Special:** OX

**Health:** 1

**Protection:**

NFPA LEAST=0, SLIGHT=1, MODERATE=2, HIGH=3, EXTREME=4

## HAZARDOUS INGREDIENTS

Hydrogen Peroxide

**CAS #**

7722-84-1

**% WT**

5-15

**HAZARD DATA**

LD50 2 g/kg (oral-mouse)

**EXPOSURE LIMITS (TLV)**

2 ppm TWA

## PHYSICAL DATA

**Physical State:** Liquid

**Odor/Appearance:** Clear liquid no odor

**Boiling Point (C):** N/D

**Freezing Point (C):** N/D

**Solubility in Water:** 100%

**Ph (undiluted):** 5.7

**Evaporation Rate:** N/D

**Specific Gravity:** N/D

**Freeze/Thaw**

**Stable:** Yes

**Percent Volatile (vol):** N/D

**Vapor Pressure:** N/D

## FIRE & EXPLOSION HAZARD

**Flammability:** N

**Means of Extinction:** N/A

**Special Procedures:** N/A

**Explosion Sensitivity to Impact:** N/A

**Chemical Sensitivity to Static Discharge:** N/A

**Flashpoint (C) & Method:** None

**Conditions:** N/A

**Hazardous Combustion Products:** Releases oxygen which may intensify fire

**Upper Explosion Limit (% by vol):** N/A

**Lower Explosion Limit (% by vol):** N/A

**Auto-ignition:** N/A

**Rate of Burning:** N/A

**Explosive Power:** N/A

**TDG/WHMIS:** Non hazardous / C, E

## REACTIVITY DATA

**Chemical Stability:** Stable

**Hazardous Decomposition Product:** None

**Incompatible Substances:** Reducing agents and all trace contamination, combustible

## TOXICOLOGICAL PROPERTIES

**Route of Entry - Skin Contact:** Y  
**Route of Entry - Skin Absorption:** N  
**Route of Entry - Eye Contact:** Y  
**Route of Entry - Inhalation:** N  
**Route of Entry - Ingestion:** Y

**Reproductive Effects Y/N:** N  
**Carcinogenicity Y/N:** N  
**Mutagenicity Y/N:** N  
**Teratogenicity Y/N:** N  
**TLV:** N/D

**Effects of Overexposure:**

**Acute Effects:**

Severe irritant to eyes, nose, throat and internal organs.

**Chronic Effects:**

Irritation with discomfort or rash. Inhalation irritating to mucous membrane.

## PREVENTATIVE MEASURES

**Gloves:** Recommended  
**Eyes:** Chemical goggles

**Footwear:** N/A  
**Respirator:** N/A

**Clothing:** N/A  
**Other:** N/A

**Recommended Engineered Controls:**

Use with adequate ventilation.

**Leak & Spill Procedures:**

Flush to a sanitary sewer with water.

**Waste Disposal Methods:**

According to federal, provincial and municipal regulations.

**Special Handling Procedures:**

Store in a cool, dry place away from combustibles and out of direct sunlight.

## FIRST AID MEASURES

**Inhalation:** Move person to fresh air. If necessary give artificial respiration or oxygen. Call a doctor if in distress.

**Ingestion:** Drink large amounts of water to dilute and call a physician.

**Eye Contact:** Immediately flush eyes with running water for at least 15 minutes. Contact a physician if irritation persists.

**Skin Contact:** Immediately flush skin for at least 15 minutes. Launder clothing before reuse. Contact a physician if irritation persists.

**Prep./Revised Date:** January 8, 2010

**Prepared By:** R. Russell

**Source Material:** Manufacturer's MSDS

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# SUPPLIER MATERIAL SAFETY DATA SHEET (MSDS)

N/D=Not Determined  
N/A=Not Applicable

**Product:** VANISH #1 & #2 MIXED

**Manufacturer:** ESTEAM

**Flammability:** 0

**Chem. Name:** N/A

**Trade Name:** Vanish

**Reactivity:** 1 **Special:** OX

**Chem. Family:** N/A

**Use:** Carpet spotting agent

**Health:** 1

**Protection:**

NFPA LEAST=0, SLIGHT=1, MODERATE=2, HIGH=3, EXTREME=4

## HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	% WT	HAZARD DATA	EXPOSURE LIMITS (TLV)
Aqua Ammonia	1336-21-5	1-5	LD50 350 mg/kg (oral-rat)	25 ppm
Isopropanol	67-63-0	1-5	LD50 5045 mg/kg (oral-rat)	400 ppm
Hydrogen Peroxide	7722-84-1	5-10	LD50 2g/kg (oral-mouse)	2 ppm TWA

## PHYSICAL DATA

**Physical State:** Liquid

**Boiling Point (C):** 100

**Solubility in Water:** Complete

**Evaporation Rate:** N/D

**Freeze/Thaw**

**Stable:** Yes

**Percent Volatile (vol):** N/D

**Odor/ Appearance:** Clear, mild ammonia odor

**Freezing Point (C):** 0

**Ph (undiluted):** 9.7

**Specific Gravity:** 1.0

**Vapor Pressure:** N/D

## FIRE & EXPLOSION HAZARD

**Flammability:** N

**Means of Extinction:** N/A

**Special Procedures:** N/A

**Explosion Sensitivity to Impact:** N/A

**Chemical Sensitivity to Static Discharge:** N/A

**Flashpoint (C) & Method:** N/A

**Conditions:** N/A

**Hazardous Combustion Products:** N/A

**Upper Explosion Limit (% by vol):** N/A

**Lower Explosion Limit (% by vol):** N/A

**Auto-ignition:** N/A

**Rate of Burning:** N/A

**Explosive Power:** N/A

**TDG/WHMIS:** Non hazardous / D2B, C, E

## REACTIVITY DATA

**Chemical Stability:** Stable

**Hazardous Decomposition Product:** None known

**Incompatible Substances:** Reducing agents and any foreign materials.

## TOXICOLOGICAL PROPERTIES

**Route of Entry - Skin Contact:** Y  
**Route of Entry - Skin Absorption:** N  
**Route of Entry - Eye Contact:** Y  
**Route of Entry - Inhalation:** Y  
**Route of Entry - Ingestion:** Y

**Reproductive Effects Y/N:** N/D  
**Carcinogenicity Y/N:** N/D  
**Mutagenicity Y/N:** N/D  
**Teratogenicity Y/N:** N/D  
**TLV:** N/D

**Effects of Overexposure:**

**Acute Effects:**

Severe irritant to eyes, skin, respiratory tract and gastrointestinal tract.

**Chronic Effects:**

Irritation with discomfort or rash. Inhalation irritating to mucous membrane.

## PREVENTATIVE MEASURES

**Gloves:** Impervious  
**Eyes:** Safety glasses

**Footwear:** N/A  
**Respirator:** NIOSH approved

**Clothing:** N/A  
**Other:** N/A

**Recommended Engineered Controls:**

Use with adequate ventilation.

**Leak & Spill Procedures:**

Dilute with large quantities of water and flush to a sanitary sewer.

**Waste Disposal Methods:**

According to federal, provincial and municipal regulations.

**Special Handling Procedures:**

Store in a cool, dry place away from combustibles and out of direct sunlight.

## FIRST AID MEASURES

**Inhalation:** No special procedures.

**Ingestion:** Drink large amounts of water to dilute and call a physician.

**Eye Contact:** Immediately flush eyes with running water for at least 15 minutes. Contact a physician if irritation persists.

**Skin Contact:** Immediately flush skin for at least 15 minutes. Launder clothing before reuse. Contact a physician if irritation persists.

**Prep./Revised Date:** January 8, 2010

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