



# Safety Data Sheet

Issue Date: 24-Mar-2010

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Version 2

## 1. IDENTIFICATION

### Product Identifier

**Product Name** GSL VOC Free

### Other means of identification

**SDS #** SVM-018  
**Product Code** 23314  
Formula X1007

### Recommended use of the chemical and restrictions on use

**Recommended Use** Grease Soil Lifter.

### Details of the supplier of the safety data sheet

#### **Manufacturer Address**

ServiceMaster™ Clean  
3839 Forest Hill Irene Rd.  
Memphis, TN, USA. 38125

### Emergency Telephone Number

**Company Phone Number** 1-800-756-5656 (ServiceMaster™ Clean)  
**Emergency Telephone (24 hr)** INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Appearance** Thin, water white liquid

**Physical State** Liquid

**Odor** Moth ball

### Classification

Acute toxicity - Inhalation (Vapors)	Category 4
Serious eye damage/eye irritation	Category 2
Flammable Liquids	Category 4

### Signal Word

**Warning**

### Hazard Statements

Harmful if inhaled  
Causes serious eye irritation  
Combustible liquid



**Precautionary Statements - Prevention**

Avoid breathing dust/fume/gas/mist/vapors/spray  
 Use only outdoors or in a well-ventilated area  
 Wash face, hands and any exposed skin thoroughly after handling  
 Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
 Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 If eye irritation persists: Get medical advice/attention  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 Call a poison center or doctor/physician if you feel unwell  
 IN CASE OF FIRE: Use CO<sub>2</sub>, dry chemical, or foam for extinction

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool.

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other Hazards**

Harmful to aquatic life with long lasting effects  
 Harmful to aquatic life

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Diethylene Glycol Monobutyl Ether	112-34-5	2-15
1-chloro-4(trifluoromethyl) benzene	98-56-6	2-15
Sodium xylenesulfonate	1300-72-7	2-15
Triethanolamine	102-71-6	2-15

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

### 4. FIRST-AID MEASURES

**First Aid Measures**

<b>General Advice</b>	Provide this SDS to medical personnel for treatment.
<b>Eye Contact</b>	Flush eyes with water at least 20 minutes while holding eyelids open. Remove contact lenses. Rest eyes for 30 minutes. If eye irritation persists: Get medical advice/attention.
<b>Skin Contact</b>	Immediately remove excess chemical and contaminated clothing; thoroughly wash contaminated skin with mild soap and water.
<b>Inhalation</b>	Remove to fresh air. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.
<b>Ingestion</b>	If swallowed, do not induce vomiting: transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

**Most important symptoms and effects****Symptoms**

Respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat, coughing, and/or difficulty breathing. Skin irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blisters. Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision. If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever.

**Indication of any immediate medical attention and special treatment needed****Notes to Physician**

Pre-existing medical conditions of the following organ(s) or organ system(s) may be aggravated by exposure to this material: Respiratory system. Skin. Eyes.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Use water spray, dry chemical, carbon dioxide or foam extinguishing agents.

**Unsuitable Extinguishing Media** Do not use solid water streams.

**Specific Hazards Arising from the Chemical**

Product is combustible & may ignite if exposed to high temperature or direct flame.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Keep adjacent containers cool by spraying with water.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures****Personal Precautions**

Avoid contact with spilled or released material. Immediately remove all contaminated clothing. Shut off leaks, if possible without personal risks. Use appropriate containment to avoid environmental contamination.

**Environmental Precautions**

See Section 12 for additional Ecological Information.

**Methods and material for containment and cleaning up****Methods for Containment**

Prevent further leakage or spillage if safe to do so. Contain spill with dike to prevent entry into sewers or waterways.

**Methods for Clean-Up**

For large spills, dike and pump into properly labeled containers for reclamation or disposal. For small spills, soak up with absorbent material and place in properly labeled containers for disposal. All recovered material should be packaged, labeled, transported and disposed of or reclaimed in conformance with applicable laws and regulations and in conformance with good engineering practices. Reclaim where possible. Additional Advice See Chapter 13 for information on disposal. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur U.S. regulations may require reporting releases of this material to the environment which exceed the reportable quantity (refer to Chapter 15) to the National Response Centre at (800) 424-8802. This material is covered by EPA's Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) Petroleum Exclusion. Therefore, releases to the environment may not be reportable under CERCLA.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

#### **Advice on Safe Handling**

Handle in accordance with good industrial hygiene and safety practice. Avoid breathing of or contact with material. Only use in well ventilated areas. Wash thoroughly after handling. For guidance on selection of personal protective equipment see Chapter 8 of this Safety Data Sheet. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Extinguish any naked flames. Do Not smoke. Remove ignition sources. Avoid sparks. Avoid contact with skin, eyes, and clothing. Electrostatic charges may be generated during pumping. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge ( $\leq 1$  m/sec until fill pipe submerged to twice its diameter, then  $\leq 7$  m/sec). Avoid splash filling. Do NOT use compressed air for filling, discharging, or handling operations. Containers, even those that have been emptied, can contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations on or near containers.

### Conditions for safe storage, including any incompatibilities

#### **Storage Conditions**

Keep container tightly closed and store in a cool, dry and well-ventilated place. Must be stored in a diked (bunded) area. Bulk storage tanks should be diked (bunded).

#### **Packaging Materials**

For containers, or container linings use mild steel, stainless steel. For container paints, use epoxy paint, zinc silicate paint.

#### **Incompatible Materials**

Oxidizing agents. Acids.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
1-chloro-4(trifluoromethyl) benzene 98-56-6	TWA: 2.5 mg/m <sup>3</sup> F	TWA: 2.5 mg/m <sup>3</sup> F TWA: 2.5 mg/m <sup>3</sup> dust (vacated) TWA: 2.5 mg/m <sup>3</sup>	-
Triethanolamine 102-71-6	TWA: 5 mg/m <sup>3</sup>	-	-

#### **Other Information**

Monitoring Methods: Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate. Examples of sources of recommended air monitoring methods are given below or contact supplier. Further national methods may be available. National Institute of Occupational Safety and Health (NIOSH), USA: Manual of analytical Methods <http://www.cdc.gov/niosh/nmam/nmammenu.html> Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods <http://www.oshaslc.gov/dts/sltc/methods/toc.html> Health and Safety Executive (HSE), UK: Methods for the Determination of Hazardous Substances <http://www.hsl.gov.uk/search.htm>.

### Appropriate engineering controls

#### **Engineering Controls**

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Eye washes and showers for emergency use. Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

**Individual protection measures, such as personal protective equipment**

<b>Eye/Face Protection</b>	Chemical splash goggles (chemical monogoggles).
<b>Skin and Body Protection</b>	Longer term protection: Nitrile rubber gloves Incidental contact/Splash protection: PVC or neoprene rubber gloves Use protective clothing which is chemical resistant to this material. Safety shoes and boots should also be chemical resistant.
<b>Respiratory Protection</b>	If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Where air-filtering respirators are unsuitable (e.g., airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive pressure breathing apparatus.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

<b>Physical State</b>	Liquid	<b>Odor</b>	Moth ball
<b>Appearance</b>	Thin, water white liquid	<b>Odor Threshold</b>	Not determined
<b>Color</b>	Clear		
<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks • Method</u></b>	
<b>pH</b>	9.4-9.9		
<b>Melting Point/Freezing Point</b>	Not determined		
<b>Boiling Point/Boiling Range</b>	Not determined		
<b>Flash Point</b>	> 71.11 °C / > 160 °F		
<b>Evaporation Rate</b>	Not available		
<b>Flammability (Solid, Gas)</b>	Not determined		
<b>Upper Flammability Limits</b>	8.5%		
<b>Lower Flammability Limit</b>	0.26%		
<b>Vapor Pressure</b>	Not available		
<b>Vapor Density</b>	Not available		
<b>Specific Gravity</b>	0.98-1.03		
<b>Water Solubility</b>	Soluble in water		
<b>Solubility in other solvents</b>	Not determined		
<b>Partition Coefficient</b>	Not determined		
<b>Auto-ignition Temperature</b>	Not available		
<b>Decomposition Temperature</b>	Not determined		
<b>Kinematic Viscosity</b>	Not determined		
<b>Dynamic Viscosity</b>	Water thin		
<b>Explosive Properties</b>	Not determined		
<b>Oxidizing Properties</b>	Not determined		
<b>VOC Content (%)</b>	0%		
<b>Density</b>	Pounds per gallon 25°C 8.2 - 8.6		

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### Chemical Stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to Avoid

Avoid heat, sparks, open flames and other ignition sources.

### Incompatible Materials

Oxidizing agents. Acids.

### Hazardous Decomposition Products

Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

<b>Product Information</b>	Information given is based on product testing, and/or similar products, and/or components
<b>Eye Contact</b>	Causes serious eye irritation; Causes noticeable pain, severe irritation and transient corneal injury.
<b>Skin Contact</b>	May cause mild irritation to skin.
<b>Inhalation</b>	Harmful if inhaled; May produce symptoms of central nervous system depression, including headache, dizziness, nausea, loss of balance and drowsiness.
<b>Ingestion</b>	May cause CNS depression, gastrointestinal tract, liver and kidney damage.

### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Dipropylene glycol monobutyl ether 29911-28-2	= 1620 µL/kg ( Rat )	= 5860 µL/kg ( Rabbit )	> 2.04 mg/L ( Rat ) 4 h = 42.1 ppm ( Rat ) 4 h
Diethylene Glycol Monobutyl Ether 112-34-5	= 3384 mg/kg ( Rat )	= 2700 mg/kg ( Rabbit )	-
Berol 260 SA	= 1378 mg/kg ( Rat )	> 2 g/kg ( Rabbit )	-
1-chloro-4(trifluoromethyl) benzene 98-56-6	= 13 g/kg ( Rat )	> 2 mL/kg ( Rabbit )	= 33 mg/L ( Rat ) 4 h
Sodium xylenesulfonate 1300-72-7	= 7200 mg/kg ( Rat )	-	-
Triethanolamine 102-71-6	= 4190 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit ) > 16 mL/kg ( Rat )	-

### Information on physical, chemical and toxicological effects

<b>Symptoms</b>	Please see section 4 of this SDS for symptoms.
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**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Carcinogenicity**

The table below indicates whether each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested.

Chemical Name	ACGIH	IARC	NTP	OSHA
Triethanolamine 102-71-6		Group 3		

**IARC (International Agency for Research on Cancer)**

Group 3 IARC components are "not classifiable as human carcinogens"

**Chronic toxicity**

Cardiovascular system: chronic abuse of similar materials has been associated with irregular heart rhythms and cardiac arrest.

Central nervous system: repeated exposure affects the nervous system.

Kidney: caused kidney effects in male rats which are not considered relevant to humans.

**Numerical measures of toxicity**

Product Information

<b>Oral LD50</b>	> 5000 mg/kg (rat)
<b>Dermal LD50</b>	> 2000 mg/kg (rabbit)

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

**Component Information**

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Dipropylene glycol monobutyl ether 29911-28-2		841: 96 h Poecilia reticulata mg/L LC50 static		
Diethylene Glycol Monobutyl Ether 112-34-5	100: 96 h Desmodesmus subspicatus mg/L EC50	1300: 96 h Lepomis macrochirus mg/L LC50 static		2850: 24 h Daphnia magna mg/L EC50 100: 48 h Daphnia magna mg/L EC50
1-chloro-4(trifluoromethyl) benzene 98-56-6		11.5 - 15.8: 48 h Lepomis macrochirus mg/L LC50 static		3.68: 48 h Daphnia magna mg/L EC50
Triethanolamine 102-71-6	216: 72 h Desmodesmus subspicatus mg/L EC50 169: 96 h Desmodesmus subspicatus mg/L EC50	10600 - 13000: 96 h Pimephales promelas mg/L LC50 flow-through 1000: 96 h Pimephales promelas mg/L LC50 static 450 - 1000: 96 h Lepomis macrochirus mg/L LC50 static		1386: 24 h Daphnia magna mg/L EC50

**Persistence/Degradability**

Not determined.

**Bioaccumulation**

Not determined.

**Mobility**

Chemical Name	Partition Coefficient
1-chloro-4(trifluoromethyl) benzene 98-56-6	3.7
Triethanolamine 102-71-6	-2.53

**Other Adverse Effects**

Not determined

**13. DISPOSAL CONSIDERATIONS**

**Waste Treatment Methods**

**Disposal of Wastes**

Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

**Contaminated Packaging**

Drain container thoroughly. After draining, vent in a safe place away from sparks and fire. Refer to Section 7 before handling the product or containers. Residues may cause an explosion hazard if heated above the flash point. Do not puncture, cut or weld uncleaned drums. Send to drum recoverer or metal reclaimer.

**14. TRANSPORT INFORMATION**

**Note**

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT**

Not regulated

**IATA**

Not regulated

**IMDG**

**Marine Pollutant**

This material may meet the definition of a marine pollutant

**TDG**

Not regulated

**15. REGULATORY INFORMATION**

**International Inventories**

Not determined

**US Federal Regulations**

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

**SARA 313**

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Diethylene Glycol Monobutyl Ether - 112-34-5	112-34-5	2-15	1.0

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)



**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Diethylene Glycol Monobutyl Ether 112-34-5	X		X
1-chloro-4(trifluoromethyl) benzene 98-56-6	X		X
Triethanolamine 102-71-6	X	X	X

**16. OTHER INFORMATION****NFPA****Health Hazards**

2

**Flammability**

1

**Instability**

0

**Special Hazards**

Not determined

**HMIS****Health Hazards**

2

**Flammability**

1

**Physical Hazards**

0

**Personal Protection**

Not determined

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**Revision Note:** New format

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**