



## MATERIAL SAFETY DATA SHEET

### SECTION 1 - PRODUCT IDENTIFICATION

**Product Name:** **GSL VOC Free**  
**Product Use:** Grease Soil Lifter  
**Product Number:** 23314  
**Formula Code:** X1007  
**Manufacturer/Supplier:** ServiceMaster<sup>TM</sup> Clean  
**Address:** 3839 Forest Hill-Irene Rd.  
Memphis, TN USA 38125  
**Telephone:** 1-800-756-5656  
**Emergency Phone:** 1-800-535-5053 (InfoTrac)

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration
Alcohols, C9 – 11, ethoxylated	68439-46-3	2 – 15 %W
2-(2-Butoxyethoxy) ethanol	112-34-5	5 – 35 %W
Sodium xylenesulfonate	1300-72-7	2 – 15 %W
Benzene, 1-chloro-4	98-56-6	2 – 15 %W
Ethanol, 2, 2', 2'' – nitrilotris	102-71-6	2 – 15 %W

### 3. HAZARDS IDENTIFICATION

Emergency Overview	
<b>Appearance and Odor</b>	Thin, water white. Liquid. Moth Ball odor
<b>Health Hazards</b>	CAUTION! May cause eye skin and respiratory tract irritation.
<b>Health Hazards</b>	
<b>Inhalation</b>	May produce symptoms of central nervous system depression, including headache, dizziness, nausea, loss of balance and drowsiness.
<b>Skin Contact</b>	May cause mild irritation to skin.
<b>Eye Contact</b>	Causes noticeable pain, severe irritation and transient corneal injury.
<b>Ingestion</b>	May cause CNS depression, gastrointestinal tract, liver and kidney damage.
<b>Signs and Symptoms</b>	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.
<b>Aggravated Medical Condition</b>	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.

### 4. FIRST AID MEASURES

<b>General Information</b>	In general no treatment is necessary, however, obtain medical advice.
<b>Inhalation</b>	Remove to fresh air. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.
<b>Skin Contact</b>	Immediately remove excess chemical and contaminated clothing; thoroughly wash contaminated skin with mild soap and water.
<b>Eye Contact</b>	Flush eyes with water at least 20 minutes while holding eyelids open. Remove contact lenses. Rest eyes for 30 minutes.
<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.

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## 5. FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

<b>Flash point</b>	>160F
<b>Explosion / Flammability limits in air</b>	0.26 – 8.5 %(V)
<b>Auto ignition temperature</b>	Not Available
<b>Extinguishing Media</b>	Use water spray, dry chemical, carbon dioxide or foam extinguishing agents.
<b>Unsuitable Extinguishing Media</b>	Do not use solid water streams.
<b>Protective Equipment for Firefighters</b>	Wear full protective clothing and self-contained breathing apparatus.
<b>Additional Advice</b>	Keep adjacent containers cool by spraying with water.

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## 6. ACCIDENTAL RELEASE MEASURES

Observe all relevant local and international regulations.

<b>Protective measures</b>	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.
<b>Clean Up Methods</b>	Contain spill with dike to prevent entry into sewers or waterways. 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.
<b>Additional Advice</b>	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.

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## 7. HANDLING AND STORAGE

<b>General Precautions</b>	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 Material 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.
<b>Handling</b>	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.
<b>Storage</b>	Must be stored in a diked (bunded) area. Bulk storage tanks should be diked (bunded).
<b>Product Transfer</b>	Keep containers closed when not in use. Do not use compressed air for filling, discharging or handling.
<b>Recommended Materials</b>	For containers, or container linings use mild steel, stainless steel. For container paints, use epoxy paint, zinc silicate paint.
<b>Container Advice</b>	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.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION Occupational Exposure Limits

<b>Exposure Controls</b>	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.
<b>Personal Protective Equipment</b>	Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.
<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. Longer term protection: Nitrile rubber gloves Incidental contact/Splash protection: PVC or neoprene rubber gloves
<b>Hand Protection</b>	
<b>Eye Protection</b>	Chemical splash goggles (chemical monogoggles).
<b>Protective Clothing</b>	Use protective clothing which is chemical resistant to this material. Safety shoes and boots should also be chemical resistant.
<b>Monitoring Methods</b>	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 <a href="http://www.cdc.gov/niosh/nmam/nmammenu.html">http://www.cdc.gov/niosh/nmam/nmammenu.html</a> Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods <a href="http://www.osha-slc.gov/dts/sltc/methods/toc.html">http://www.osha-slc.gov/dts/sltc/methods/toc.html</a> Health and Safety Executive (HSE), UK: Methods for the Determination of Hazardous Substances <a href="http://www.hsl.gov.uk/search.htm">http://www.hsl.gov.uk/search.htm</a>
<b>Environmental Exposure Controls</b>	Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapour.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Thin, water white liquid.
Odor	Moth ball odor.
Boiling point	Not available
Flash point	71 °C / >160 °F
Explosion / Flammability limits in air	0.26 – 8.5 %(V)
Auto-ignition temperature	Not available
Vapor pressure	Not available
Specific gravity	0.98
Water solubility	Soluble
Vapor density (air=1)	Not available
State of aggregation	Liquid
Stability	Stable.
Volatile organic carbon content	0 %
Evaporation rate (nBuAc=1)	Not available

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## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under normal conditions of use.
<b>Conditions to Avoid</b>	Avoid heat, sparks, open flames and other ignition sources.
<b>Hazardous Decomposition Products</b>	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

<b>Basis for Assessment</b>	Information given is based on product testing, and/or similar products, and/or components.
<b>Acute Oral Toxicity</b>	Low toxicity: LD50 >5000 mg/kg , Rat
<b>Acute Dermal Toxicity</b>	Low toxicity: LD50 >2500 mg/kg , Rabbit
<b>Acute Inhalation Toxicity</b>	Low toxicity: LC50 greater than near-saturated vapor concentration. / 1 hours, Rat
<b>Skin Irritation</b>	May cause moderate irritation to skin. Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis.
<b>Eye Irritation</b>	Moderate eye irritant
<b>Repeated Dose Toxicity</b>	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

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## 12. DISPOSAL CONSIDERATIONS

<b>Material Disposal</b>	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.
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**Container Disposal**

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.

**Local Legislation**

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.

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**13. OTHER INFORMATION****HMIS Rating (Health, Fire, Reactivity)**

2, 1, 0

**NFPA Rating (Health, Fire, Reactivity)**

2, 1, 0

**MSDS Effective Date**

03/24/2014

**MSDS Regulation**

The content and format of this MSDS is in accordance with the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**MSDS Distribution**

The information in this document should be made available to all who may handle the product

**Disclaimer**

The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty or guarantee is expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product.