SAFETY DATA SHEET

Section 1 - Identification

Product Identifier: GLIMMER Stainless Steel Cleaner
Other means of identification: 2006
Recommended use: Stainless Steel Cleaner
Recommended restrictions: For commercial and industrial use only.

Manufacturer / Importer / Supplier / Distributor Information

Company Name: National Chemical Laboratories of PA, Inc.
Address: 401 N. 10th Street - Philadelphia, PA 19123
Telephone: 1 (215) 922-1200
Supplier Email: info@nclonline.com
Contact: CHEM-TEL
Emergency Phone: 1 (800) 255-3924

Section 2 - Hazard(s) Identification

SDS Hazards and Warnings are based on the undiluted product. Refer to diluted SDS for Ready-To-Use Hazards and Warnings.

Physical Hazards: Gases Under Pressure, Compressed Gas
Health Hazards: Acute toxicity, inhalation

Signal Word: Warning

Hazard Statement: Contains gas under pressure; may explode if heated. Causes eye irritation. Causes skin irritation. Flammable aerosol. Harmful if inhaled.

Precautionary statement:
- Do not breathe dust/fume/gas/mist/vapors/spray.

Response: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. 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.

Storage: Protect from sunlight. Do not expose to temperatures exceeding 122°F/50°C. Store in a well-ventilated place.

Disposal: Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified (HNOC): None known.

Section 3 - Composition/Information on ingredients

Mixture

<table>
<thead>
<tr>
<th>Hazardous Components</th>
<th>Ingredient Name</th>
<th>CAS #</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Medium aliphatic naphtha</td>
<td>64742-88-7</td>
<td>7 - 13</td>
</tr>
<tr>
<td></td>
<td>Petroleum Distillate</td>
<td>64742-47-8</td>
<td>7 - 13</td>
</tr>
<tr>
<td></td>
<td>Butane</td>
<td>106-97-8</td>
<td>3 - 7</td>
</tr>
<tr>
<td></td>
<td>Polyalkyl siloxane</td>
<td>63148-62-9</td>
<td>1 - 5</td>
</tr>
<tr>
<td></td>
<td>Propane</td>
<td>74-98-6</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

Section 4 - First-aid Measures

Inhalation: Move to fresh air and keep at rest. Call a physician if symptoms develop and persist.
Skin contact: Remove contaminated clothing and shoes. Rinse skin with water. If irritation develops and persists, get medical attention.
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**Eye contact**
Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation.

**Ingestion**
Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low to avoid getting into the lungs. Call a poison control center if large amounts are ingested.

**Indication of immediate medical attention and special treatment**
Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

**General Information**
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### Section 5 - Fire-fighting measures

**Suitable extinguishing media**
Powder, water spray, foam, carbon dioxide.

**Unsuitable extinguishing media**
Not available.

**Specific hazards arising from the chemical**
Contents under pressure. Containers may explode when heated.

**Special protective equipment and precautions for firefighters**
Keep containers cool using water spray. Use proper equipment to protect personnel from bursting containers.

**Fire-fighting equipment/instructions**
Containers may explode when heated. Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

**Specific Methods**
Use standard firefighting procedures and consider the hazards of other involved materials.

### Section 6 - Accidental release measures

**Personal precautions, protective equipment and emergency procedures**
Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition. Ruptured cylinders may rocket.

**Methods and materials for containment and cleaning up**
Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

**Environmental precautions**
Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). This material is a water pollutant. Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.

### Section 7 - Handling and storage

**Precautions for safe handling**
Contents under pressure. Keep out of reach of children. Read label cautions carefully. Follow label directions to avoid injury. Use with adequate ventilation. Do not use in confined areas. Keep away from heat, sparks or open flames. Wash hands thoroughly after each use. Do not smoke while using. Avoid contact with skin and eyes. Avoid breathing vapor or mist. Do not puncture container.

**Conditions for safe storage, including any incompatibilities**
Keep out of reach of children. Do not store near heat, sparks, or open flames. Do not expose to temperatures above 120°F as container may vent, rupture or burst. Do not puncture or incinerate container. Do not store in direct sunlight. Store in a cool, dry, well-ventilated area away from incompatible materials.

### Section 8 - Exposure control/personal protection

**OCCUPATIONAL EXPOSURE LIMITS**

<table>
<thead>
<tr>
<th>Component</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butane (CAS 106-97-8)</td>
<td>TWA</td>
<td>1000 ppm</td>
</tr>
<tr>
<td>Medium aliphatic naphtha (CAS 64742-88-7)</td>
<td>TWA</td>
<td>100 ppm</td>
</tr>
<tr>
<td>Petroleum Distillate (CAS 64742-47-8)</td>
<td>TWA</td>
<td>100 ppm</td>
</tr>
<tr>
<td>Propane (CAS 74-98-6)</td>
<td>TWA</td>
<td>1000 ppm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butane (CAS 106-97-8)</td>
<td>TLV</td>
<td>1000 ppm</td>
</tr>
<tr>
<td>Petroleum Distillate (CAS 64742-47-8)</td>
<td>TLV</td>
<td>200 mg/m³</td>
</tr>
<tr>
<td>Medium aliphatic naphtha (CAS 64742-88-7)</td>
<td>TLV</td>
<td>200 mg/m³</td>
</tr>
<tr>
<td>Propane (CAS 74-98-6)</td>
<td>TLV</td>
<td>1000 ppm</td>
</tr>
</tbody>
</table>

**Appropriate engineering controls**
Maintain adequate ventilation.

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

<table>
<thead>
<tr>
<th>Category</th>
<th>Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eye/face protection</strong></td>
<td>Usage of safety glasses/ goggles is recommended.</td>
</tr>
<tr>
<td><strong>Skin protection</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Hand protection</strong></td>
<td>Chemical resistant gloves</td>
</tr>
<tr>
<td><strong>Other</strong></td>
<td>None.</td>
</tr>
<tr>
<td><strong>Respiratory protection</strong></td>
<td>Respiratory Protection not required for normal use.</td>
</tr>
</tbody>
</table>

### Section 9 - Physical and chemical properties

**Appearance**
White opaque liquid.
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Physical state: Mixture packaged in pressurized aerosol spray can.
Form: Liquid.
Color: White.
Odor: Lemon.
Odor threshold: Not available.
pH: 7.0 - 8.0
Melting point/freezing point: Not available.
Initial boiling point and boiling range: >100 °F
Flash point: Not available.
Evaporation rate: Slower.
Flammability (solid, gas):
Upper/lower flammability or explosive limits:
- Flammability limit - lower (%): Not available.
- Flammability limit - upper (%): Not available.
- Explosive limit - lower (%): Not available.
- Explosive limit - upper (%): Not available.
Vapor pressure: N/A
Vapor density: N/A
Relative density: 0.91 - 0.99
Relative density temperature: 75 °F (23.89 °C)
Partition Coefficient n-octanol/water: Not available
Auto-ignition temperature: Not Available
Decomposition temperature: Not Available
Viscosity: Not available
Partition Coefficient n-octanol/water: Not available
Auto-ignition temperature: Not Available
Decomposition temperature: Not Available
Viscosity Temperature: 75 °F (23.89 °C)
Other Information:
- VOC's: 20.04
- Pressure: 40 - 52 psig @ 70 °F

Section 10 - Stability and reactivity
Reactivity: The product is stable and non-reactive under normal conditions.
Chemical stability: Stable at normal conditions.
Possibility of hazardous reactions: Hazardous polymerization will not occur.
Conditions to Avoid: Heat, sparks, open flames and temperatures above 120°F
Incompatible materials: Strong oxidizing agents.

Section 11 - Toxicological information
Information on likely routes of exposure:
- Inhalation: May cause respiratory tract irritation. This product may be aspirated onto the lungs and cause chemical pneumonitis.
- Skin contact: May cause skin irritation. Handling can cause dry skin.
- Eye contact: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Information on toxicological effects:
Acute toxicity:
<table>
<thead>
<tr>
<th>Components</th>
<th>Level</th>
<th>Type</th>
<th>Code</th>
<th>Species</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyalkyl siloxane (CAS 63148-62-9)</td>
<td>Acute</td>
<td>Oral</td>
<td>LDS0</td>
<td>Rat</td>
<td>&gt; 17000 mg/kg</td>
</tr>
</tbody>
</table>
Germ cell mutagenicity: Not Hazardous by WHMIS/OSHA criteria.
Carcinogenicity: Not Hazardous by WHMIS/OSHA criteria.
Chronic effects: Not Hazardous by WHMIS/OSHA criteria.

Section 12 - Ecological Information
Ecotoxicity: May cause long-term adverse effects in the aquatic environment
Persistence and degradability: Not available.
Bioaccumulative potential: Not available.
Mobility in soil: Not available.
Other adverse effects: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine
Section 13 - Disposal considerations

Disposal instructions
Before offering for recycling, empty the container by using the product according to the label. If recycling is not available, wrap the container and discard in the trash. Dispose of unused product in accordance with regulations.

Local disposal regulations
Dispose in accordance with all applicable regulations.

Hazardous waste code
The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.

Contaminated packaging
Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

Section 14 - Transport information

DOT
- UN number: UN1950
- Proper shipping name: Aerosols, flammable
- Transport hazard class(es): 2.1
- Packing group: Not Applicable.
- Special precautions for user: Read safety instructions, SDS and emergency procedures before handling.
- Labels required: None/Ninguno
- Packaging exemption: 306
- Packaging non bulk: None/Ninguno
- Packaging bulk: None/Ninguno
- Comment: This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

IATA
- UN number: UN1950
- UN proper shipping name: Aerosols, flammable
- Transport hazard class(es): 2.1
- Packing group: Not Applicable.
- Environmental hazards: No.
- Labels required: 2.1
- ERG Code: 10L
- Special precautions for user: Read safety instructions, SDS and emergency procedures before handling.
- Passenger and Cargo aircraft: Allowed.
- Cargo aircraft only: Allowed.
- Packaging Exceptions: LTD QTY

IMDG
- UN number: UN1950
- UN proper shipping name: AEROSOLS
- Transport hazard class(es): 2.1
- Packing group: Not Applicable.
- Environmental hazards: No.
- Marine pollutant: No.
- Labels required: 2.1
- EmS: F-D, S-U
- Special precautions for user: Read safety instructions, SDS and emergency procedures before handling.
- Packaging Exceptions: LTD QTY
- Transportation in bulk according to Annex II of MARPOL 73/78 and IBC Code: Not applicable.

Section 15 - Regulatory Information

US federal regulations
- TSCA Section 12(b) Export Notification (40 CFR707, Subpt. D)
  - Components
    - Butane (CAS 106-97-8)
    - Result: N/A
    - Comment:

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Medium aliphatic naphtha (CAS 64742-88-7) N/A%
Petroleum Distillate (CAS 64742-47-8) N/A%
Polyalkyl siloxane (CAS 63148-62-9) 1-5%
Propane (CAS 74-98-6) N/A%

CERCLA Hazardous Substance List (40 CFR 302.4)
Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard Categories**
- Immediate Hazard: No
- Delayed Hazard: No
- Fire Hazard: Yes
- Pressure Hazard: Yes
- Reactivity Hazard: No

**SARA 302 Extremely hazardous substance**: No

**SARA 311/312 Hazardous chemical**: No

**SARA 313 (TRI reporting)**: No

**Other federal regulations**
- Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HSPs) List
- Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
- Safe Drinking Water Act (SDWA)
- Food and Drug Administration (FDA) Not regulated.

**US state regulations**
- **US. Massachusetts RTK - Substance List**
  - Components
    - Butane (CAS 106-97-8)
    - Propane (CAS 74-98-6)
- **US. New Jersey Worker and Community Right-to-Know Act**
  - Components
    - Butane (CAS 106-97-8)
    - Polyalkyl siloxane (CAS 63148-62-9)
    - Propane (CAS 74-98-6)
- **US. Pennsylvania RTK - Hazardous Substances**
  - Components
    - Butane (CAS 106-97-8)
    - Polyalkyl siloxane (CAS 63148-62-9)
    - Propane (CAS 74-98-6)
- **US. Rhode Island RTK**
- **US - California Proposition 65**
  - California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**International Inventories**

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory Name</th>
<th>On Inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>No</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>No</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDLS)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>No</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>No</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>No</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>No</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>No</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances</td>
<td>No</td>
</tr>
<tr>
<td>Unites States</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>No</td>
</tr>
</tbody>
</table>

* "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).
* "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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**Section 16 - Other information, including date of preparation or last version**

**Issue date** 4/10/2015
**Version #** 01
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