1. IDENTIFICATION

Product Identifier
Product Name Greasomatic ®96

Other means of identification
SDS # PLI-001

Recommended use of the chemical and restrictions on use
Recommended Use Automatic lubricator.

Details of the supplier of the safety data sheet
Supplier Address
Power Lube Industrial, LLC
4930 S. 2nd St. Ste 300
Milwaukee, WI 53207

Emergency Telephone Number
Company Phone Number 1-800-635-8170
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: In the normal course of use of a GREASOMATIC 96 , no hazard will arise because the reactive agents remain sealed inside it. The GREASOMATIC is of robust, tamper-resistant construction and users are warned not to make any attempt to force open the casing, whether the unit is inactivated, working or spent. However, should a GREASOMATIC become fractured as a result of severe accidental damage or deliberate interference, small amounts of the following preparations or substances may escape:

- Inactivated Greasomatic: up to 47 g of liquid electrolyte and up to 125 g of lubricant
- Working or Spent Greasomatic: up to 47 g of liquid electrolyte and up to 0.02 g of hydrogen gas and up to 125 g of lubricant

Such an escape will give rise to the following potential hazards (assessment of which should take into account the very small quantities of the substances involved and the unlikelihood of prolonged exposure to them).

Appearance Colorless liquid
Physical State Liquid

Classification

This product is an "article" and a Safety Data Sheet is not required under 29 CFR 1910.1200; however, for the benefit of users, the following safety information is provided in a similar layout to that laid down for Safety Data Sheets.
### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Nature**

A GREASOMATIC 96 is an automatic lubricator that is designed to screw into a grease nipple socket or other lubrication point and discharge its content of 120 mL of grease or oil in a controlled continuous flow for a user-selected period of up to 12 months. Built into the top of the GREASOMATIC 96 is a flexible rubber expansion chamber containing a small amount of a mildly acidic electrolyte (a dilute solution of citric acid and glycine in water) and an adjustable molybdenum: zinc galvanic element. By manipulation of the control knob on the top of the unit, the user can adjust the configuration of the galvanic element to give the desired discharge duration and then inject the galvanic element into the electrolyte. The resultant electro-chemical reaction generates a small but steadily increasing amount of hydrogen gas which gradually expands against a piston to inject the lubricant into the bearing to which the GREASOMATIC is fitted. The chemicals and the gas remain hermetically sealed within the expansion chamber so that none can contaminate the lubricant. Only if the casing of the GREASOMATIC is fractured by severe mechanical damage can the gas or chemicals escape. In the event of a complete blockage of the bearing's lubricant channel, the internal pressure in the GREASOMATIC will build up until the pressure relief valve in the base operates to release lubricant (but no gas or electrolyte), thus relieving the pressure and warning that no lubrication is taking place.

### 4. FIRST-AID MEASURES

**First Aid Measures**

**Eye Contact**

In case of contact with electrolyte, irrigate eye with copious amounts of water. If eye irritation persists: Get medical advice/attention.

**Skin Contact**

In case of contact with electrolyte, wash with soap and water.

**Inhalation**

Remove to fresh air.

**Ingestion**

Clean mouth with water and drink afterwards plenty of water.

**Most important symptoms and effects**

**Symptoms**

May cause skin and eye irritation.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician**

Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Carbon dioxide (CO2), Dry powder. Foam. Sand/earth.

**Unsuitable Extinguishing Media**

Not determined.

**Specific Hazards Arising from the Chemical**

A Greasomatic and its contents are not readily combustible but will burn if ignited in the course of some larger conflagration. Hydrogen is lighter than air and highly flammable. However, the risk of fire or explosion from the maximum of 0.02 g of the gas which is sealed within a working or used GREASOMATIC 96 is not considered to constitute a serious hazard or health risk.

**Hazardous Combustion Products**


**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.
6. ACCIDENTAL RELEASE MEASURES

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

**Personal Precautions**
Use personal protective equipment as required.

**Environmental Precautions**
Prevent product from entering drains.

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

**Methods for Containment**
Prevent further leakage or spillage if safe to do so.

**Methods for Clean-Up**
Electrolyte spillage: Soak up with absorbent material and dispose of via a licensed waste disposal site.

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7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on Safe Handling**
Handle in accordance with good industrial hygiene and safety practice. Keep away from heat.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions**
Store at 0 - 40°C in dry conditions.

**Incompatible Materials**
None known based on information supplied.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines**
Do not attempt to force open the casing of a GREASOMATIC, whether inactivated, working or spent. If handling an accidentally fractured GREASOMATIC, keep it away from naked flames and avoid eye or skin contact with electrolyte.

**Appropriate engineering controls**

**Engineering Controls**
None under normal use conditions.

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

**Eye/Face Protection**
Avoid contact with eyes.

**Skin and Body Protection**
Wear suitable protective clothing.

**Respiratory Protection**
Ensure adequate ventilation, especially in confined areas.

**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

Physical State: Liquid
Appearance: Colorless liquid
Color: Colorless
Odor: Not determined
Odor Threshold: Not determined

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<tr>
<td>Oxidizing Properties</td>
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</table>

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
Keep out of reach of children.

Incompatible Materials
None known based on information supplied.

Hazardous Decomposition Products
11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information
Under normal conditions of intended use, this material does not pose a risk to health.

Eye Contact
Avoid contact with eyes.

Skin Contact
Not expected to be a skin irritant during prescribed use.

Inhalation
Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Ingestion
Do not taste or swallow.

Information on physical, chemical and toxicological effects

Symptoms
Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity
Carcinogenic potential is unknown.

Numerical measures of toxicity
Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity
No data is available on finished product.

Persistence/Degradability
Not determined.

Bioaccumulation
Not determined.

Mobility
Not determined.

Other Adverse Effects
Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes
A spent GREASOMATIC 96 should be considered as general industrial waste and disposed of via a licensed waste disposal site, preferably a landfill. Due to its sealed construction and variety of components, it is not suitable for recycling. A spent Greasomatic is typically composed of: 124g of mixed rubber and plastic components; 47g of citric acid, citrates and glycine in water; 0.02 g of H2; <1g of Zn; 200mg of Mo; 50mg of BeCu; 10 mg of Sn; <1mg of Hg; a variable amount of lubricant.

Contaminated Packaging
Disposal should be in accordance with applicable regional, national and local laws and regulations.
14. TRANSPORT INFORMATION

DOT Not regulated
IATA Not regulated
IMDG Not regulated

15. REGULATORY INFORMATION

International Inventories
Not determined

US Federal Regulations

SARA 313
Not determined

US State Regulations

U.S. State Right-to-Know Regulations
Not determined

16. OTHER INFORMATION

NFPA  Health Hazards  Flammability  Instability  Special Hazards  Not determined  Personal Protection
Not determined  Not determined  Not determined

HMIS  Health Hazards  Flammability  Physical Hazards  Not determined
Not determined  Not determined

Issue Date  07-Jan-2009
Revision Date:  30-Oct-2013
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