Material Safety Data Sheet

GOWER SOLUTION

Revised: 01/19/2011
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Section 1 - Product Description

Product Name: Gower solution
Product Code(s): 70-0380, 70-0384, 70-0386, 86-5813
Size: Up to 500mL
Chemical Name: Does not apply, product is a chemical mixture
CAS Number: See Section 3
Formula: See Section 3
Synonyms: N/A
Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) Chemtrec 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 - Hazard Identification

Emergency Overview: N/A
Potential Health Effects:
- Eyes: May cause irritation.
- Skin: May cause irritation to skin.
- Ingestion: May cause gastrointestinal discomfort.
- Inhalation: May cause irritation to respiratory tract.

Section 3 - Composition / Information on Ingredients

Principal Hazardous Components: Sodium Sulfate (CAS# 7757-82-6) 5%; Acetic acid, Glacial (CAS# 64-19-7) 14.2%;
TLV units: Actic Acid, Glacial: ACGIH-TLV: 10 ppm (TWA), ST
PEL units: Acetic Acid, Glacial: OSHA-PEL: 10 ppm (TWA), STEL

Section 4 - First Aid Measures

Emergency and First Aid Procedures:
- Eyes - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Skin - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
- Ingestion - If swallowed, rinse mouth with water (only if the person is conscious). If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
- Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Section 5 - Firefighting Procedures

Flash Point (Method Used): N/A
NFPA Rating:
- Health: 0
- Fire: 0
- Reactivity: 0

Extinguisher Media: Use media suitable to extinguish surrounding fire.

Flammable Limits in Air % by Volume: N/A

Autoignition Temperature: N/A

Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: N/A

### Section 6 - Spill or Leak Procedures

**Steps to Take in Case Material Is Released or Spilled:** Ventilate area of spill. Eliminate all sources of ignition. Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

### Section 7 - Special Precautions

**Precautions to Take in Handling or Storing:** Keep container tightly closed in a cool, well-ventilated place.

### Section 8 - Protection Information

**Respiratory Protection (Specify Type):** None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

**Ventilation:**
- Local Exhaust: Yes
- Mechanical (General): Yes
- Special: No
- Other: No

**Protective Gloves:** Natural rubber, Neoprene, PVC or equivalent.

**Eye Protection:** Splash proof chemical safety goggles should be worn.

**Other Protective Clothing or Equipment:** Lab coat, apron, eye wash, safety shower.

### Section 9 - Physical Data

- **Molecular Weight:** N/A
- **Boiling Point:** N/A
- **Vapor Density (Air=1):** N/A
- **Percent Volatile by Volume:** 95%
- **Solubility in Water:** Soluble
- **Melting Point:** N/A
- **Vapor Pressure:** N/A
- **Specific Gravity (H2O=1):** N/A
- **Evaporation Rate (BuAc=1):** (water = 1) Approximately 1
- **Appearance and Odor:** Clear, colorless liquid, Vinegar odor.

### Section 10 - Reactivity Data

- **Stability:** Stable
- **Conditions to Avoid:** N/A
- **Incompatibility (Materials to Avoid):** Water-reactive Material,
- **Hazardous Decomposition Products:** N/A
- **Hazardous Polymerization:** Will not occur

### Section 11 - Toxicity Data

- **Toxicity Data:** N/A
- **Effects of Overexposure:**
  - **Acute:** See Section 2
  - **Chronic:** Not listed as a carcinogen by IARC, NTP or OSHA. Reproductive data cited. Mutation data cited.
- **Conditions Aggravated by Overexposure:** None Known
Target Organs: No information available
Primary Route(s) of Entry: Ingestion, skin and eye contact.

Section 12 - Ecological Data

EPA Waste Numbers: D001, D002

Section 13 - Disposal Information

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

Section 14 - Transport Information

DOT Proper Shipping Name: UN1760, Corrosive liquid, n.o.s.(glacial acetic acid, sodium sulphate), 8, III

Section 15 - Regulatory Information

EPA TSCA Status: On TSCA Inventory
Hazard Category for SARA Section 311/312 Reporting: Acute

Name List: Chemical Category:
Glacial Acetic Acid - No Glacial Acetic Acid - No
Sodium Sulfite - No Sodium Sulfite - No

CERCLA Section 103 RQ(lb.): Glacial Acetic Acid - 5000
Sodium Sulfite - No
RCRA Section 261.33: Glacial Acetic Acid - No
Sodium Sulfite - No

Section 16 - Additional Information

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary
ACGIH American Conference of Governmental Industrial Hygienists
CAS Number Chemical Services Abstract Number
CERCLA Comprehensive Environmental Response, Compensation, and Liability Act
DOT U.S. Department of Transportation
IARC International Agency of Research on Cancer
N/A Not Available
NTP National Toxicology Program
OSHA Occupational Safety and Health Administration
PEL Permissible Exposure Limit
ppm Parts per million
RCRA Resource Conservation and Recovery Act
SARA Superfund Amendments and Reauthorization Act
TLV Threshold Limit Value
TSCA Toxic Substances Control Act