MATERIAL SAFETY DATA SHEET
NEO-PEEL 20% Glycolic Acid Solution

Section 1 – Product and Company Identification

Product Trade Name: NEO-PEEL 20% Glycolic Acid Solution

Distributor: Neocutis, Inc.
3053 Fillmore Street # 140
San Francisco, California 94123
U.S.A.

Emergency Phone (24 HR): 1-800-373-7542 (U.S.)
by Hazmat Service, Inc.
+1-484-951-2432 (international)

Fax Number: 1-313-664-0668

Section 2 – Ingredients and Identity Information

<table>
<thead>
<tr>
<th>Ingredient Sequence Number</th>
<th>Ingredient</th>
<th>CAS Number</th>
<th>Percent (By Weight)</th>
<th>RTECS Number</th>
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<tbody>
<tr>
<td>1</td>
<td>Water (Aqua)</td>
<td>7732-18-5</td>
<td>ZC0110000</td>
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<tr>
<td>2</td>
<td>Glycolic Acid</td>
<td>79-14-1</td>
<td>20%</td>
<td>MC5250000</td>
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<tr>
<td>3</td>
<td>Sodium Glycerophosphate</td>
<td>67762-27-0</td>
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<td></td>
</tr>
<tr>
<td>4</td>
<td>Leucine</td>
<td>61-90-5</td>
<td></td>
<td></td>
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<tr>
<td>5</td>
<td>Sodium Benzoate</td>
<td>532-32-1</td>
<td>DH6650000</td>
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<tr>
<td>6</td>
<td>Sodium EDTA</td>
<td>10378-23-1</td>
<td>AH50750000</td>
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</table>

Section 3 – Hazard Identification

<table>
<thead>
<tr>
<th>Hazardous Materials Identification System (HMIS)</th>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
</tr>
</thead>
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<tr>
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</table>

<table>
<thead>
<tr>
<th>National Fire Protection Association (NFPA) Ratings</th>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
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<tbody>
<tr>
<td></td>
<td>3</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Potential Health Effects:
Routes of Exposure:
i) **Inhalation:**
May cause chemical burns to nasal passages and airways.

ii) **Skin:**
Contact with skin will result in severe irritation.

iii) **Ingestion:**
Causes irritation, nausea and vomiting if swallowed.

iv) **Eye:**
Contact with the eyes will result in severe irritation to eyes.

v) **Chronic Exposure:**
Prolonged exposure will result in irritation of the eyes, nose, and throat.

## Section 4 – First Aid Measures

Take precautions to ensure your own health and safety before attempting rescue and providing first aid.

i) **Eye**
Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue to flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by occasionally lifting the upper and lower eyelids with fingers. Have eyes examined and tested by medical personnel.

ii) **Skin**
Immediately flush with plenty of water for at least 15 minutes while removing contaminated shoes and clothing. Get medical attention immediately. Wash (or discard) clothing and shoes before reuse.

iii) **Inhalation**
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep victim warm and get medical attention immediately.

iv) **Ingestion**
If swallowed, do NOT induce vomiting. If victim is conscious and alert, give a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

**Notes to Physician:** Treat symptomatically and supportively.

## Section 5 – Fire Fighting

i) **Flash Point:** Not Available

ii) **Flammable Properties:** This material is not considered a fire hazard. Not flammable, but reacts with most metals to form flammable hydrogen gas.
iii) **Autoignition Temperature:** Not determined

iv) **Flammable or Explosive Limits** (approximate percent by volume in air)
   - **Lower Explosive Limit:** Not determined
   - **Upper Explosive Limit:** Not determined

v) **Extinguishing Media:** Alcohol foam, water spray (fog), and dry chemical carbon dioxide type fire extinguishing agents may all be suitable for extinguishing fires involving this type of product, depending on size or potential size of fire and circumstances related to the situation. It is recommended to plan fire protection and response strategy through consultation with local fire protection authorities or appropriate specialists.

vi) **Fire Fighting Procedures:** Wear a self-contained breathing apparatus (SCBA) equipped with a full face-piece and operated in a pressure-demand mode (or other positive pressure mode) and approved protective clothing. Personnel without suitable respiratory protection must leave the area to prevent significant exposure to hazardous gases from combustion, burning, or decomposition. In an enclosed or poorly ventilated area, wear SCBA during cleanup immediately after a fire as well as during the attack phase of firefighting operations. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

vii) **Decomposition:** During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Nitrous oxides, CO, CO₂.

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**Section 6 – Accidental Release Measures**

**Steps To Be Taken In Case Material Is Released Or Spilled:** Clean up spills immediately, observing precautions in Protective Equipment section. Provide adequate ventilation during cleanup procedures. Vacuum or sweep up or take up with absorbent material and place into waste container, or absorb with inert material (e.g., dry sand or earth) and place in a waste container. If necessary, neutralize the residue with a dilute solution of sodium carbonate. Do not flush to sewer.

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**Section 7 – Handling and Storage**

i) **Handling:** Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Follow all MSDS/label precautions even after container is emptied because they may retain product residues.

ii) **Storage:** Store in a cool place in original container and protect from sunlight. Store away from incompatible materials. Keep container closed when not in use. Keep away from food and drinking water.

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**Section 8 – Exposure Controls and Personal Protection**
i) **Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

ii) **Ventilation:** A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersions of it into the general work area.

iii) **Respiratory Protection:** None necessary for normal protect handling. In the event of a large spill clean-up, wear an approved air-purifying respirator with organic vapor cartridges when working with this material.

iv) **Skin Protection:** Wear appropriate protective gloves to prevent skin exposure. Wear appropriate protective clothing to prevent skin exposure.

v) **Eye Protection:** None necessary for normal product handling. Avoid eye contact. For large spill clean-up, wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA’s eye and face protection regulations in 29 CFR 1910.134. Maintain eye wash fountain and quick-drench facilities in work area.

vi) **Protective Clothing:** None necessary for normal product handling. Clinicians repeatedly applying the product to patients should wear latex gloves when handling.

vii) **Personal Hygiene:** Wash hands thoroughly after handling. No eating, drinking, or smoking in area.

### Section 9 – Physical and Chemical Properties

i) **Appearance:** colorless, odorless aqueous solution

ii) **pH:** 2.5 - 3.1

### Section 10 – Stability and Reactivity

i) **Stability:** Stable under ordinary conditions of use and storage. Hazardous polymerization will not occur.

ii) **Materials to avoid:** Store away from oxidizing agents, metals, cyanides, sulfides and heat. Store below 30 °C.

iii) **Hazardous Decomposition:** Carbon Dioxide and/or Carbon Monoxide

### Section 11 – Toxicology Information

The toxicological properties of this material have not been thoroughly investigated.
There is no experimental toxicity data for this product. Refer to the data listed below for relative toxicity assessment.

**TOXICITY DATA (100% Glycolic Acid)**

- **Oral Toxicity:**
  - LD50: 1950 mg/kg (rat)
  - LD50: 1920 mg/kg (guinea pig)

- **Inhalation Toxicity:**
  - LC50: 7.7 mg/L/4H (rat)

- **Eye:**
  - SEV: 2 mg/kg (rabbit)

**Section 12 – Ecological Information**

- **Persistence and Degradability:** Readily and rapidly degradable.
- **Aquatic Toxicity:** No data available on this product.
- **Clean Air Act:** This product does not contain any hazardous air pollutants. This product does not contain any Class 1 Ozone depletors. This product does not contain any Class 2 Ozone depletors.

**Section 13 – Disposal Recommendations**

For small amounts, discard as ordinary trash. For large quantities, dispose of container and unused contents in accordance with federal, state, local environmental and regulatory requirements.

**Section 14 – Transport Information**

- **DOT Shipping Name:** Corrosive Liquid, Acidic, Organic n.o.s., (Glycolic Acid)
- **DOT Hazard Class:** 8
- **Hazardous Ingredients:** Glycolic Acid
- **Identification Number:** UN 3265
- **Packaging Group:** II
- **Label:** Corrosive

**Note:** During an incident involving this material, use of DOT Emergency Response Guide No. 153 is also recommended.

**Section 15 – Regulatory Information**

**U.S. Federal Regulations:** The following information may be useful in complying with various state and federal laws and regulations under various environmental statutes:
i) Toxic Substance Control Act (TSCA)
   Chemical ingredients are on the TSCA Inventory; TSCA 8(b): Glycolic Acid.

ii) Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA):
    This product contains no components subject to reporting or notification requirements.

iii) Sara Title III (Superfund Amendments and Reauthorization Act)
    311/312 Hazard Categories: Immediate Health
    313 Reportable Ingredients: None

iv) Hazardous Waste No.
    D002 (Unlisted hazardous substance characteristic of corrosivity).

v) OSHA:

vi) California Proposition 65 Warning
    This product contains no components known to the State of California to cause cancer or reproductive effects.

Section 16 – Other Information

Date Issued: August 21, 2012
Supersedes Date: September 6, 2012
MSDS ID# 017, NEO-PEEL 20% Glycolic Acid Solution

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End of Material Safety Data Sheet