A white powder consisting of 50% glycine as the active ingredient and 50% proprietary buffer
Product Code ACX4400, A neutralizer of glutaraldehyde and OPA

Section II - Hazards Identification

Both glycine and the proprietary buffer are not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). Not a hazardous substance or mixture according to the Globally Harmonized System.

**Warning:** May cause slight irritation to skin, eyes and mucus membranes.

**Safety Ratings:** Not a hazardous substance. Low hazard for usual industrial handling.

**Flammability:** Minimal  
**Reactivity:** None  
**Health:** Not Hazardous  
**Contact:** Slight  
**Safety equipment:** safety goggles, lab coat and chemical resistant gloves  
**Storage:** General storage

**NFPA Rating**

**Health = 1**  
**Flammability = 1**  
**Reactivity = 0**

The toxicology of this compound has not been completely examined. It is presumed that the toxicity of this item is similar to glycine, which is generally recognized as safe.

**Inhalation:** Dust may cause irritation to upper respiratory tract (nose and throat).

**Ingestion:** No adverse effects anticipated from swallowing small amounts incidental to normal handling operations.

**Skin contact:** May cause skin irritation. Low hazard for usual handling.

**Eye contact:** May cause eye irritation.

**Chronic Exposure:** No information found.

## Section III - Composition/Information on Components

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS #</th>
<th>% w/w</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycine (active ingredient)</td>
<td>56-40-6</td>
<td>50%</td>
</tr>
<tr>
<td>Proprietary buffer</td>
<td></td>
<td>50%</td>
</tr>
</tbody>
</table>

## Section IV - First Aid Measures

**Inhalation:** Remove to fresh air if effects occur. Consult a physician.

**Note to Physician:** No specific antidote. Treatment based on judgement of the physician in response to reactions of the patient.

**Skin Contact:** Wash off in flowing water or shower.

**Eye Contact:** Flush eyes with plenty of water.

## Section V - Fire Fighting Measures

**Flash point:** Not determined.

**Flammable Limits:** Not determined.

**Fire:** Not normally a fire hazard.

**Explosion:** Not normally an explosion hazard.

**Fire Extinguishing Media:** Any means suitable for surrounding fire.

**Special Information:** Pyrolysis will release carbon monoxide, carbon dioxide, ammonia, oxides of nitrogen, formaldehyde and hydrogen cyanide.

## Section VI - Accidental Release Measures

Wear appropriate protective gear such as gloves, apron, protective eyewear and respirator. Clear non-emergency personnel from the area. Avoid contamination of waterways and drains. Remove with shovel. Transfer to suitable and properly labeled containers and dispose of in accordance with applicable Federal, state and local regulations.
Section VII - Handling and Storage
Good housekeeping and controlling of dusts are necessary for safe handling. Use only with adequate ventilation. Store in cool, dry, and well-ventilated area.

Section VIII - Exposure Control/Personal Protection

**Protective Equipment:** Use safety glasses. If dust exposure causes eye discomfort, use chemical goggles.  
**Respirator Protection:** An organic vapor respirator with a prefilter for dust may be required in dusty atmospheres.  
**Skin protection:** Wear clean, long-sleeved, body covering clothing. Use gloves impervious to this material.  
**Eye Protection:** Laboratory safety goggles, safety glasses or face shield are required. 
**Exposure Limits:** None established.

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Section IX - Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Density</td>
<td>About 1.2 g/ml (glycine)</td>
</tr>
<tr>
<td>Solubility</td>
<td>25% (w/w) (glycine)</td>
</tr>
</tbody>
</table>

**Appearance and Odor:** A white, odorless crystalline powder.

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Section X - Stability and Reactivity

**Reactivity:** No data available. 
**Chemical Stability:** Thermally stable at typical use temperatures.  
**Conditions to avoid:** Temperatures above 50°C.  
**Incompatibilities with other materials:** Avoid contact with strong oxidizing agents. 
**Hazardous decomposition products:** Carbon dioxide, carbon monoxide, nitrogen oxides, and ammonia.

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Section XI - Toxicological Information

**Toxicity:** The chronic toxicity of this product is unknown. Glycine and the proprietary buffer are generally recognized as safe.

**Acute toxicity:** Glycine: Oral LD50 for rats = 7,930 mg/kg, for mice = 4920 mg/kg. Proprietary buffer: LD50 for rats >4000 mg/kg.  
**Mutagenicity:** AirClean® Systems is unaware of any evidence that the product is mutagenic or teratogenic.  
**Cancer lists:** Glycine and the proprietary buffer are not carcinogens or suspected carcinogens.

---

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Known Carcinogenicity?</th>
<th>NTP?</th>
<th>Anticipated?</th>
<th>IARC Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycine</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>None</td>
</tr>
<tr>
<td>Proprietary buffer</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>None</td>
</tr>
</tbody>
</table>

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Section XII – Ecological Information

**Environmental Fate:** No data available  
**Environmental Toxicity:** No data available.  
**Persistence: water/soil/air:** Low  
**Bioaccumulation:** Low  
**Mobility:** High

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Section XIII – Disposal

Dispose of waste product in accordance with Federal, State/ Provincial, and local laws and regulations.

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Section XIV - Transportation information

Not Regulated.

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Section XV - Regulatory Information

**Chemical Inventory Status**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>TSCA</th>
<th>EC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycine</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Proprietary Buffer</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Federal, State and International Regulations**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>SARA 302</th>
<th>SARA 313</th>
<th>RCRA</th>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycine</td>
<td>RQ</td>
<td>TPO</td>
<td>List</td>
<td>Category</td>
</tr>
<tr>
<td>Proprietary buffer</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Chemical Weapons Conventions: No TSCA 12(b): No  
SARA 311/312: Acute: None, Chronic: None  
CDTA: No

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Section XVI - Other Information

This information is believed to be correct but is not warranted as such, nor does it purport to be all-inclusive. Prepared by: D.M.  
Last Reviewed: June 23, 2017.