2. HAZARDS IDENTIFICATION

Physical Hazards: Not Classified

Health Hazard: H315 - Causes skin irritation

H319 - Causes serious eye irritation

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

Respiratory Irritation Category 1
Skin Irritation Category 1

Signal Word - Warning

Hazard-determining components of labeling:

ammonium hydroxide 1336-21-6

Precautionary Statements:

P261 - Avoid breathing mist, vapors
P264 - Wash hands, forearms and face thoroughly after handling
P272 - Contaminated work clothing must not be allowed out of the workplace P280 - Wear eye protection, protective clothing, protective gloves
P284 – (In case of inadequate ventilation) wear respiratory protection P302+P352 - If on skin: Wash with plenty of soap and water
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing P305+P351+P338
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention
P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER, a doctor P362+P364 - Take off contaminated clothing and wash it before reuse
H412 Harmful to aquatic life with long lasting effects.
Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

Environmental Hazards: Not Classified.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Components</th>
<th>COMPONENT</th>
<th>CAS Number</th>
<th>WT.%</th>
</tr>
</thead>
<tbody>
<tr>
<td>ammonium hydroxide</td>
<td>1336-21-6</td>
<td>&lt;3.0%</td>
<td></td>
</tr>
<tr>
<td>diethylene glycol ethyl ether</td>
<td>111-90-0</td>
<td>&lt;0.5%</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Non Hazardous Components</th>
<th>COMPONENT</th>
<th>CAS NUMBER</th>
<th>WT.%</th>
</tr>
</thead>
<tbody>
<tr>
<td>resin formulation</td>
<td>proprietary</td>
<td>60-90%</td>
<td></td>
</tr>
</tbody>
</table>

*Specific chemical identity and/or exact percentage of composition is being withheld as a trade secret.

4. FIRST AID MEASURES

**Skin Contact:** First aid not normally required. Remove contaminated clothing. Wash area of contact with soap and water. Flush skin with plenty of water for at least 15 minutes. Wash clothing before reuse. Get medical attention if irritation occurs and persists.

**Eye Contact:** Rinse cautiously with water for at least 15 minutes occasionally lifting both upper and lower eyelids. Remove contact lenses if present and easy to do. Continue rinsing. If symptom persists, consult a doctor.

**Inhalation:** Remove affected person from source of exposure. Get medical attention if breathing difficulty or discomfort persists.

**Ingestion:** Do not induce vomiting because of danger of aspiration into lungs. If conscious, give a glass of water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, monitor for breathing difficulty. Get medical attention.

**Most important symptoms and effects, both acute and delayed:**
Skin Inflammation, skin redness, allergies, and/or dermatitis

5. FIRE FIGHTING MEASURES

**Basic Firefighting Procedures:** Use water spray, dry chemical, foam or CO2 as applicable for burning materials. Use a water spray to cool fire-exposed containers, structures and to protect personnel. Exposed firefighters should wear MSHA/NIOSH approved self-contained breathing apparatus with full-face mask and full protective equipment. Flush spills away from sources of ignition. Cool closed containers exposed to fire with water spray.

**Unusual Fire and Explosion Hazards:** Not applicable. This product is an aqueous mixture that will not burn. Dried product film will burn in a fire.

6. ACCIDENTAL RELEASE MEASURES

**Refer to Section 8: Exposure Control and Personal Protection**

**Emergency Action:** For large spills, isolate the release area and keep unnecessary people away. Exercise caution regarding personnel safety and exposure. Refer to protective measures listed in sections 7 and 8.
Spill/Leak Procedure: Floor and surfaces may be slippery. Dike with sand or other material. Flush area with water provided runoff does not enter drain or sewer; use absorbent material (e.g. vermiculite, sand and earth) and dispose of properly in a suitable container.

Notification: Any spill or release to navigable water that causes a visible sheen upon the water must be reported immediately to the National Response Center (800/424-8802), as required by U.S. federal law.

7. HANDLING and STORAGE

Refer to Section 8: Exposure Control and Personal Protection

Advice on safe handling: Wear proper protective equipment. Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists. Do not ingest. For intended use only. Use good hygiene practices when handling product, including changing and laundering work clothes after use. Get medical attention if you are exposed and feel unwell. Empty containers may contain residue or vapors. Do not cut, grind, drill, weld or reuse containers. Do not eat, drink, or smoke while using this product.

Conditions for safe storage: Keep container closed when not in use. Keep in a dry, cool place.

Materials to avoid: Do not freeze. No special restrictions on storage with other products.

Storage temperature: >= 40 °F

Storage: Do not store near incompatible chemicals. When possible, store in a dry place at moderate temperatures (above freezing) away from heat and flames. This material is to be handled and applied according to label directions. Keep this product and all chemicals away from children and pets. Keep containers closed when not in use. Keep from freezing.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits - Components

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium hydroxide CAS No. 1336-21-6 Vapor</td>
<td>ACGIH TWA: 25 ppm, ACGIH STEL: 35 ppm</td>
<td>OSHA PEL (TWA): 35 mg/m³, 8 hours, OSHA PEL (TWA): 50 ppm, 8 hours</td>
<td>NA</td>
</tr>
</tbody>
</table>

Exposure Controls: None established for this mixture.

Engineering Controls: Use appropriate ventilation.

Eye and Face Protection: Wear safety glasses; use face shield if splashing is possible.

Skin Protection: Oil and chemical resistant, nitrile, gloves should be used to avoid repeated contact.

Respiratory Protection: Not normally needed. A NIOSH or MSHA approved respirator should be used in areas with high vapor concentrations or misting.
9. PHYSICAL and CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance/Physical State, Liquid</td>
<td>N/A</td>
</tr>
<tr>
<td>Color</td>
<td>Pale yellow</td>
</tr>
<tr>
<td>Odor</td>
<td>Ammoniacal</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>N/A</td>
</tr>
<tr>
<td>pH</td>
<td>8 - 9.5</td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Initial Boiling Point and Boiling Range</td>
<td>210 °F</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt; 212 °F</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>1</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>N/A</td>
</tr>
<tr>
<td>Upper/Lower Flammability or Explosive Limits</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>N/A</td>
</tr>
<tr>
<td>Relative Density</td>
<td>Approx. 1.06</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Miscible</td>
</tr>
<tr>
<td>Partition Coefficient: n-octanol/water</td>
<td>N/A</td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>N/A</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>N/A</td>
</tr>
<tr>
<td>Viscosity</td>
<td>120 cps @77°F</td>
</tr>
<tr>
<td>VOC</td>
<td>Contact supplier for further information</td>
</tr>
<tr>
<td>Percent Volatile</td>
<td>Approx. 30%</td>
</tr>
</tbody>
</table>

Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Those should be requested separately.

10. STABILITY AND REACTIVITY

Reactivity: Does not react under normal conditions of use.

Chemical Stability: Stable under normal conditions of use.

Stability/Incompatibility: Avoid contact with strong oxidizers.

Conditions to Avoid: None known.

Hazardous Reactions/Decomposition Products: Does not decompose under normal conditions; may produce metal oxides, CO, CO2, volatile hydrocarbons and other possibly toxic gases in fire.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Eyes, Skin and Ingestion

Acute toxicity: Product has not been tested.

Components:

<table>
<thead>
<tr>
<th>Component</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ammonium hydroxide (1336-21-6)</td>
<td></td>
</tr>
<tr>
<td>LD50 oral rat</td>
<td>350 mg/kg</td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
<td>5.1 mg/l 1 h</td>
</tr>
<tr>
<td>LC50 inhalation rat (ppm)</td>
<td>2000 ppm/4h</td>
</tr>
<tr>
<td>2-(2-ethoxyethoxy)ethanol (diethylene glycol ethyl ether) (111-90-0)</td>
<td></td>
</tr>
<tr>
<td>LD50 oral rat</td>
<td>10,502 mg/kg</td>
</tr>
<tr>
<td>LC50 inhalation rat</td>
<td>&gt;200 mg/l</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>9,143 mg/kg</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: Product has not been tested.

Serious eye damage/eye irritation: Finished Product not classified based on available data.
Germ Cell Mutagenicity: Not classified based on available data.
Carcinogenicity: Product not classified based on available data.
Reproductive Toxicity: Product not classified based on available data.
Specific Target Organ Toxicity - Single Exposure (STOT SE): Product not classified based on available data.
Specific Target Organ Toxicity - Repeated Exposure (STOT RE): Not classified based on available data.
Aspiration Hazard: Not classified due to lack of data. Based on physical properties, not likely to be an aspiration hazard.
Primary irritant effect:
On the skin: No data for product.
On the eye: No data for product.
Sensitization: No data for product.
Additional toxicological information:
Components:
Carcinogenic categories ·
IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA’s list of regulated carcinogens.
NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Symptoms: May include redness, drying, cracking of the skin, gastrointestinal and respiratory discomfort. Refer to Sections 2 and 4 for recommended actions.

12. ECOLOGICAL INFORMATION
Ecotoxicity: Product has not been tested.
Components:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-(2-ethoxyethoxy) ethanol (diethylene glycol ethyl ether) 111-90-0</td>
<td></td>
<td>9,650 mg/l - 96 h Pimephales promelas (fathead minnow) LC50</td>
<td>3,340 mg/l - 48 h Daphnia magna (Water flea) LC50</td>
</tr>
</tbody>
</table>

Persistence and Biodegradability: Not Determined
Bioaccumulative Potential: Not Determined
Mobility in Soil: Not Determined

13. DISPOSAL CONSIDERATIONS
To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Solidify and dispose of in an approved landfill. Consult state,
local or provincial authorities for more restrictive requirements. The hazard and precautionary statements displayed on the label also apply to any residues left in the container.

14. TRANSPORTATION INFORMATION

Special precautions for user: Not applicable

DOT: Not Regulated as a dangerous good
UNRTDG: Not regulated as a dangerous good
IATA-DGR: Not regulated as a dangerous good
IMDG-Code: Not regulated as a dangerous good

15. REGULATORY INFORMATION

Chemical Inventory Lists:

TSCA: All ingredients are listed (or are exempt from listing)
SARA Title III, Section 313 (40 CFR 372.65): Specific toxic chemical listings:

- ammonium hydroxide 1336-21-6
- 2-(2-ethoxyethoxy)ethanol (diethylene glycol ethyl ether) 111-90-0

SARA (311/312) Reportable Hazard Categories: Chronic and Acute health hazard

CERCLA RQ

- ammonium hydroxide 1336-21-6 1000 lb.

HAPS (Hazardous Air Pollutants): Please contact supplier for more information.
California Prop. 65: Please contact supplier for more information.

16. OTHER INFORMATION

SDS Issue Date: 12-19-19

HMIS® Hazard Ratings
Health: 1  Fire Hazard: 0  Reactivity: 0

The information and recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to Applied Products from its suppliers, and because Applied Products has no control over the conditions of handling and use, Applied Products makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information and product are supplied solely for your information and discretionary use. Applied Products assumes no responsibility for reliance or use thereon. It is the responsibility of the user of the product to comply with all applicable federal, state and local laws and regulations.