SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: AE-47
OTHER MEANS OF IDENTIFICATION: Not applicable.
GENERAL USE: For professional laundry and wet cleaning use only.
PRODUCT DESCRIPTION: Water Soluble Sizing

MANUFACTURER
Adco Professional Products LLC
1706 Ledo Rd.
Albany, GA 31707
Product Information: 800-821-7556 (USA & Canada only)

24 HR. EMERGENCY TELEPHONE NUMBERS
Medical Emergency: 866-303-6947 (USA & Canada only) or 651-632-9272
Transportation Emergency: 800-424-9300 (USA & Canada only) or 703-527-3887

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION OF THE SUBSTANCE OR MIXTURE
Specific Target Organ Toxicity (STOT-SE): Category 2
Specific Target Organ Toxicity (STOT-RE): Category 2

GHS LABEL ELEMENTS

Symbol(s):

Signal Word: Danger

Hazard Statements:
H371 – May cause damage to organs.
H373 – May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements:
P264 – Wash thoroughly after handling.
P270 – Do not eat, drink or smoke when using this product.
P308+P311 – IF exposed or concerned: Call a POISON CENTER or doctor.
P332+P313 – IF SKIN irritation occurs: Get medical advice/attention.
P363 – Wash contaminated clothing before reuse.
P501 – Dispose of contents/container in accordance with local/ regional/national/international regulations.

Other Hazards: Not available.
Unknown Acute Toxicity: Not applicable.
3. COMPOSITION / INFORMATION ON INGREDIENTS

The specific identities of one or more components of this product are withheld as a trade secret.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Wt.%</th>
<th>CAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trade Secret #1</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

COMMENTS: None.

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

SKIN: Remove contaminated clothing. Wash with water. Consult a physician if irritation persists.

INGESTION: Get immediate medical attention. Do not induce vomiting unless instructed to do so by poison center or physician.

INHALATION: Remove affected person to fresh air. If not breathing, give artificial respiration. Get medical attention.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Irritation.

SKIN: No data available.

SKIN ABSORPTION: No data available.

INGESTION: May irritate the mouth, throat and stomach.

INHALATION: May irritate respiratory tract.

ADDITIONAL INFORMATION: After emergency actions, call the emergency medical information number on page 1 or a physician immediately.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: Not applicable.

EXTINGUISHING MEDIA: Not applicable.

HAZARDOUS COMBUSTION PRODUCTS: Not applicable.

FIRE FIGHTING EQUIPMENT: Not applicable.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Clean up spill with absorbent material and water, if necessary.

LARGE SPILL: Contain spill. Clean up spills immediately with absorbent material, observing precautions in the Exposure Controls/Personal Protection section (see section 8). Place absorbed material in closed containers for disposal (see section 13).

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Not applicable.

HANDLING: Follow all SDS/label precautions even after container is emptied because it may retain product residues.

STORAGE: Store in labeled, tightly sealed containers. Prevent from freezing.

ELECTROSTATIC ACCUMULATION HAZARD: Not applicable.
8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:
OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

<table>
<thead>
<tr>
<th></th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Supplier OEL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ppm</td>
<td>mg/m³</td>
<td>ppm</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>NE</td>
<td>50</td>
</tr>
</tbody>
</table>

TABLE FOOTNOTES:
1. NE = Not established.

The specific identities of one or more components of this product are withheld as a trade secret.

ENGINEERING CONTROLS: Not applicable.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Safety glasses with side shields, or goggles.
SKIN: Rubber or Barrier™ gloves.
RESPIRATORY: Not applicable.

PROTECTIVE CLOTHING: Not applicable.

WORK HYGIENIC PRACTICES: Wash thoroughly after handling. Do not eat or drink in work area.

OTHER USE PRECAUTIONS: Have eye wash station available. Do not wear contact lenses without eye protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Milky.
PHYSICAL STATE: Liquid.
COLOR: White.
ODOR: Bland.
ODOR THRESHOLD: No data available.
pH: 6-7
FREEZING POINT: <0°C (32°F)
INITIAL BOILING POINT: 100°C (212°F)
FLASHPOINT: Not applicable.
EVAPORATION RATE: 0.3 (butyl acetate = 1)
FLAMMABILITY (Solid, Gas): Not applicable, this product is a liquid at room temperature.
FLAMMABLE LIMITS: Not applicable.
VAPOR PRESSURE: 17 mm Hg at 20°C
VAPOR DENSITY: ~0.6 (air=1)
RELATIVE DENSITY: 1.1
SOLUBILITY IN WATER: Dispersible.
PARTITION COEFFICIENT (Log K_{ow}): No data available.
AUTOIGNITION TEMPERATURE: No data available.
DECOMPOSITION TEMPERATURE: No data available.

VISCOSITY: 18 sec, Zahn #2
PERCENT VOLATILE: ~70
10. STABILITY AND REACTIVITY

REACTIVITY: No.

CHEMICAL STABILITY: Stable.

POSSIBILITY OF HAZARDOUS REACTIONS: Polymerization will not occur.

CONDITIONS TO AVOID: None known.

INCOMPATIBLE MATERIALS: Strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Not applicable.

11. TOXICOLOGICAL INFORMATION

ROUTES OF EXPOSURE: Skin.

ACUTE TOXICITY (ATE)

DERMAL LD₅₀: Insufficient data available.

ORAL LD₅₀: > 2,000 mg/kg (rat)

INHALATION LD₅₀: Insufficient data available.

CHRONIC TOXICITY

TARGET ORGANS: Chronic overexposure to a minor component of this product may cause injury to liver and kidneys.

SENSITIZATION: Ingestion may cause sensitization.

CARCINOGENICITY

IARC: Not listed as a carcinogen.

NTP: Not listed as a carcinogen.

OSHA: Not listed as a carcinogen.

OTHER: ACGIH: A minor component of this product is classified as A4 (Not classifiable as a human carcinogen).

OTHER: No data available.

REPRODUCTIVE EFFECTS: No data available.

MUTAGENICITY: Not mutagenic.

SYNERGISTIC MATERIALS: No data available.

POTENTIAL HEALTH EFFECTS

EYES: Insufficient data available.

SKIN: Insufficient data available.

SKIN ABSORPTION: No data available.

INGESTION: Low toxicity.

ASPIRATION HAZARD: No.

INHALATION: Not applicable.

MEDICAL CONDITIONS AGGRAVATED: Significant overexposure to a minor component of this product could adversely affect preexisting diseases of the liver, kidney, skin, central nervous system and respiratory system.

GENERAL COMMENTS: Refer to Section 3 for additional information on potential health effects.

12. ECOLOGICAL INFORMATION

ECOTOXICITY: Expected to have very low aquatic

PERSISTENCE AND DEGRADABILITY: All components expected to be readily biodegradable.

BIOACCUMULATIVE POTENTIAL: Not expected to bioaccumulate.

MOBILITY IN SOIL: No data available.

OTHER ADVERSE EFFECTS: No data available.
13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Dispose of in accordance with federal, state and local regulations.

**EMPTY CONTAINER:** Not applicable.

**RCRA/EPA WASTE INFORMATION:** Contains no material listed by RCRA as a hazardous waste.

14. TRANSPORT INFORMATION

**DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Not regulated.

**OTHER SHIPPING INFORMATION:** Not applicable.

**CANADA TRANSPORT OF DANGEROUS GOODS**

**PROPER SHIPPING NAME:** Not regulated.

**OTHER SHIPPING INFORMATION:** Not applicable.

**AIR (ICAO/IATA)**

**PROPER SHIPPING NAME:** Not regulated.

15. REGULATORY INFORMATION

**UNITED STATES**

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**311/312 HAZARD CATEGORIES:**
- **FIRE:** No.
- **PRESSURE GENERATING:** No.
- **REATIVITY:** No.
- **ACUTE:** Yes.
- **CHRONIC:** Yes.

**313 REPORTABLE INGREDIENTS:** None.

**CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)**

**CERCLA RQ:** Not applicable.

**REPORTABLE SPILL QUANTITY:** Not applicable.

**RCRA STATUS:** See section 13.

**MEXICO**

Not applicable.

**STATE REGULATIONS**

**MASSACHUSETTS**

Contains one or more substances regulated by the Massachusetts Substance List.

**CALIFORNIA**

**PROPOSITION 65 STATEMENT:** This product contains no ingredients known to the state of California to cause cancer, birth defects, or other reproductive harm.
16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>HMIS RATINGS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>HEALTH:</td>
<td>1</td>
</tr>
<tr>
<td>FLAMMABILITY:</td>
<td>0</td>
</tr>
<tr>
<td>REACTIVITY:</td>
<td>0</td>
</tr>
<tr>
<td>PERSONAL PROTECTION:</td>
<td>B</td>
</tr>
</tbody>
</table>

**SDS Revision Date:** July 14, 2015