SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Glueaway
OTHER MEANS OF IDENTIFICATION: Not applicable.
GENERAL USE: For professional drycleaning and laundry use only.
PRODUCT DESCRIPTION: Stain Removal Agent

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
Flammable Liquids: Category 2
Eye Damage/Irritation: Category 2A
Acute Toxicity – Inhalation: Category 4
Specific Target Organ Toxicity (STOT-SE) Respiratory Irritant Effects: Category 3

GHS LABEL ELEMENTS

Symbol(s):

Signal Word: Danger

Hazard Statements:
H225 – Highly flammable liquid and vapor.
H319 – Causes serious eye irritation.
H332 – Harmful if inhaled.
H335 – May cause respiratory irritation.

Precautionary Statements:
P210 – Keep away from heat/sparks/open flames/hot surfaces - No smoking.
P240 – Ground/bond container and receiving equipment.
P241 – Use explosion-proof electrical/ventilating/lighting equipment.
P242 – Use non-sparking tools.
P243 – Take precautionary measures against static discharge.
P261 – Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 – Wash thoroughly after handling.
P271 – Use only outdoors or in well-ventilated areas.
P280 – Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 – IF INHALED: Remove person to fresh air and keep at rest in a position 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.
P312 – Call POISON CENTER or doctor/physician if you feel unwell.
P337+P313 – If eye irritation persists: Get medical advice/attention
P370+P378 – In case of fire: Use water fog or fine spray, foam, carbon dioxide extinguishers, or dry chemical extinguishers for extinction.
P501 – Dispose of contents and container to licensed, permitted incinerator, or other thermal destruction device.

Other Hazards: Not available.
Unknown Acute Toxicity: Not applicable.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Wt.%</th>
<th>CAS#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl isobutyl ketone (4-methyl-2-pentanone)</td>
<td>100</td>
<td>108-10-1</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, redness, pain.
SKIN: Irritation, redness, pain, drying, cracking.
SKIN ABSORPTION: No data available.
INGESTION: No data available.
INHALATION: No data available.

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

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: NFPA Class IB
EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, foam, water spray or fog.
HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, carbon monoxide.
OTHER CONSIDERATIONS: Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations. Forms explosive peroxides which may be shock sensitive. Material will float and may ignite on surface of water.
FIRE FIGHTING EQUIPMENT: As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.
6. ACCIDENTAL RELEASE MEASURES

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

**LARGE SPILL:** Contain spill. Avoid breathing vapor. 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). Do not flush to sewer. Avoid contamination of ground and surface waters.

7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Keep away from heat, sparks, and flame.

**HANDLING:** Use only with adequate ventilation. Follow all SDS/label precautions even after container is emptied because it may retain product residues.

**STORAGE:** Store in labeled, tightly sealed containers in a cool, well-ventilated area.

**ELECTROSTATIC ACCUMULATION HAZARD:** Ground and bond containers when transferring material.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**EXPOSURE GUIDELINES:**

**OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)**

<table>
<thead>
<tr>
<th>Methyl isobutyl ketone (4-methyl-2-pentanone)</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Supplier OEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>TWA</td>
<td>100</td>
<td>20[^1]</td>
<td></td>
</tr>
<tr>
<td>STEL</td>
<td>NE[^2]</td>
<td>75</td>
<td></td>
</tr>
</tbody>
</table>

**TABLE FOOTNOTES**

1. A3: Confirmed animal carcinogen with unknown relevance to humans.
2. NE=Not established.

**ENGINEERING CONTROLS:** Local exhaust may be required to control vapor concentration.

**PERSONAL PROTECTIVE EQUIPMENT**

**EYES AND FACE:** Safety glasses with side shields, or goggles.

**SKIN:** Solvent resistant or Barrier™ gloves.

**RESPIRATORY:** NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

**PROTECTIVE CLOTHING:** Where contact is likely, wear the appropriate chemical resistant equipment, which depending on circumstances may include gloves, a chemical suit, rubber boots, and chemical safety goggles plus a face shield.

**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:** Clear.

**PHYSICAL STATE:** Liquid.

**COLOR:** Colorless.

**ODOR:** Ketone.

**ODOR THRESHOLD:** No data available.

**pH:** No data available.

**FREEZING POINT:** -85°C (-121°F)

**INITIAL BOILING POINT:** 117°C (243°F)

**FLASHPOINT:** 16°C (61°F (TCC))

**EVAPORATION RATE:** No data available.

**FLAMMABILITY (Solid, Gas):** Not applicable, this product is a liquid at room temperature.

**FLAMMABLE LIMITS:** 1.2% to 8.0%

**VAPOR PRESSURE:** 15 mm Hg at 20°C

**VAPOR DENSITY:** 3.5 (air = 1)

**RELATIVE DENSITY:** 0.80

**SOLUBILITY IN WATER:** Moderate.

**PARTITION COEFFICIENT (Log K\text{ow}):** 1.38

**AUTOIGNITION TEMPERATURE:** 443°C (829°F)

**DECOMPOSITION TEMPERATURE:** No data available.

**VISCOSITY:** No data available.

**PERCENT VOLATILE:** 100

10. STABILITY AND REACTIVITY

**REACTIVITY:** No.

**CHEMICAL STABILITY:** Stable.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Polymerization will not occur. Forms peroxides of unknown stability.

**CONDITIONS TO AVOID:** Avoid heat, sparks, and open flames.

**INCOMPATIBLE MATERIALS:** Strong oxidizers.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Burning produces toxic, irritating fumes.

11. TOXICOLOGICAL INFORMATION

**ROUTES OF EXPOSURE:** Inhalation and skin.

**ACUTE TOXICITY (ATE)**

- **DERMAL LD\text{50}:** > 8,000 mg/kg (rabbit)
- **ORAL LD\text{50}:** 2,080 mg/kg (rat)
- **INHALATION LC\text{50}:** ≥ 2,000 ppm (rat)

**CHRONIC TOXICITY**

**TARGET ORGANS:** No data available.

**SENSITIZATION:** No data available.

**CARCINOGENICITY**

- **IARC:** This product is classified as Group 2B (Possibly carcinogenic to humans).
- **NTP:** Not listed as a carcinogen.
- **OSHA:** Not listed as a carcinogen.
OTHER: ACGIH: See section 8.
OTHER: No data available.
REPRODUCTIVE EFFECTS: No data available.
MUTAGENICITY: No data available.
SYNERGISTIC MATERIALS: No data available.
POTENTIAL HEALTH EFFECTS
  EYES: May cause moderate irritation.
  SKIN: No data available.
  SKIN ABSORPTION: No data available.
  INGESTION: No data available.
  ASPIRATION HAZARD: May be harmful if swallowed and enters airways.
  INHALATION: Harmful if inhaled.
MEDICAL CONDITIONS AGGRAVATED: No data available.
GENERAL COMMENTS: Refer to Section 3 for additional information on potential health effects.

12. ECOLOGICAL INFORMATION
  ECOTOXICITY: This product has low aquatic toxicity.
  PERSISTENCE AND DEGRADABILITY: No data available
  BIOACCUMULATIVE POTENTIAL: No data available.
  MOBILITY IN SOIL: No data available.
  OTHER ADVERSE EFFECTS: No data available.

13. DISPOSAL CONSIDERATIONS
  DISPOSAL METHOD: Incinerate or dispose of in accordance with federal, state and local regulations.
  EMPTY CONTAINER: Not applicable.
  RCRA/EPA WASTE INFORMATION: Contains material(s) that are ignitable wastes as defined by RCRA.

14. TRANSPORT INFORMATION
  DOT (DEPARTMENT OF TRANSPORTATION)
    PROPER SHIPPING NAME: Methyl isobutyl ketone
    TECHNICAL NAME: Not applicable.
    PRIMARY HAZARD CLASS/DIVISION: 3
    UN/NA NUMBER: UN1245
    PACKING GROUP: II
    LABEL: Flammable Liquid (Class 3), where applicable.
    REPORTABLE QUANTITY (RQ) UNDER CERCLA: 750 gal
    OTHER SHIPPING INFORMATION: No data available.
  CANADA TRANSPORT OF DANGEROUS GOODS
    PROPER SHIPPING NAME: Methyl isobutyl ketone
    PRIMARY HAZARD CLASS/DIVISION: 3
    UN/NA NUMBER: UN1245
    PACKING GROUP: II
    LABEL: Flammable Liquid (Class 3), where applicable.
    OTHER SHIPPING INFORMATION: No data available.
  AIR (ICAO/IATA)
    PROPER SHIPPING NAME: Flammable Liquid, NOS
15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)
311/312 HAZARD CATEGORIES:
  FIRE: Yes. PRESSURE GENERATING: No. REACTIVITY: No. ACUTE: Yes. CHRONIC: No.

313 REPORTABLE INGREDIENTS: Methyl isobutyl ketone is reportable.

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)
CERCLA RQ: Not applicable.
REPORTABLE SPILL QUANTITY: 5,000 lbs
RCRA STATUS: See section 13.

MEXICO
Regulated for transportation.

STATE REGULATIONS

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

CALIFORNIA
PROPOSITION 65 STATEMENT: Methyl isobutyl ketone is on the Proposition 65 list of chemicals known to the State of California to cause reproductive toxicity.

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>HMIS RATINGS</th>
<th>NFPA RATINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEALTH: 1</td>
<td>3</td>
</tr>
<tr>
<td>FLAMMABILITY: 3</td>
<td>2</td>
</tr>
<tr>
<td>REACTIVITY: 0</td>
<td>1</td>
</tr>
<tr>
<td>PERSONAL PROTECTION: B</td>
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</table>

SDS Revision Date: April 8, 2016