1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Normandy
OTHER MEANS OF IDENTIFICATION: Not applicable.
GENERAL USE: For professional drycleaning use only.
PRODUCT DESCRIPTION: Drycleaning Detergent.

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

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION OF THE SUBSTANCE OR MIXTURE
Flammable Liquids: Category 3
Skin Corrosion/Irritation: Category 1
Eye Damage/Irritation: Category 1
Carcinogenicity: Category 2

GHS LABEL ELEMENTS

Symbol(s):

Signal Word: Danger

Hazard Statements:
H226 – Flammable liquid and vapor.
H315 – Causes skin irritation.
H318 – Causes serious eye damage.
H351 – Suspected of causing cancer.

Precautionary Statements:
P201 – Obtain special instructions before use.
P202 – Do not handle until all safety precautions have been read and understood.
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.
P264 – Wash thoroughly after handling.
P280 – Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 – IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353 – IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse SKIN with water/shower.

P305+P351+P338+P310 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

P308+P313 – If exposed or concerned, get medical advice/attention.

P332+P313 – IF SKIN irritation occurs: Get medical advice/attention.

P362+P364 – Take off contaminated clothing and wash before reuse.

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: 14% of the mixture consists of ingredient(s) of unknown acute toxicity.

3. COMPOSITION / INFORMATION ON INGREDIENTS

The specific identity 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>
<tr>
<td>Hexylene glycol</td>
<td>&lt;10</td>
<td>107-41-5</td>
</tr>
<tr>
<td>Trade Secret #2</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Trade Secret #3</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Trade Secret #4</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>&lt;5</td>
<td>67-63-0</td>
</tr>
<tr>
<td>Trade Secret #5</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, watering, redness, swelling, burning sensation, blurred vision.

SKIN: Burning sensation, redness, swelling, drying, cracking, blisters.

SKIN ABSORPTION: Insufficient data available.

INGESTION: Stomach pain, nausea, vomiting, diarrhea, gastrointestinal irritation, coughing, sore throat, labored breathing, drowsiness, dizziness.

INHALATION: Respiratory tract irritation, coughing, sore throat, nausea, abdominal pain, vomiting. Headache dizziness, drowsiness, lightheadedness.,

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 II

**EXTINGUISHING MEDIA:** Carbon dioxide, dry chemical, foam, water spray or fog.

**HAZARDOUS COMBUSTION PRODUCTS:** Burning produces toxic vapors.

**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:** 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>Compound</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Supplier OEL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ppm (ppm)</td>
<td>mg/m³ (mg/m³)</td>
<td></td>
</tr>
<tr>
<td>Trade Secret #1</td>
<td>TWA NE</td>
<td>NE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>STEL NE[1]</td>
<td>NE</td>
<td></td>
</tr>
<tr>
<td>Hexylene glycol</td>
<td>TWA NE</td>
<td>C 25</td>
<td></td>
</tr>
<tr>
<td></td>
<td>STEL NE</td>
<td>NE</td>
<td></td>
</tr>
<tr>
<td>Trade Secret #2</td>
<td>TWA NE</td>
<td>NE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>STEL NE</td>
<td>NE</td>
<td></td>
</tr>
<tr>
<td>Trade Secret #3</td>
<td>TWA NE</td>
<td>NE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>STEL NE</td>
<td>NE</td>
<td></td>
</tr>
<tr>
<td>Trade Secret #4</td>
<td>TWA NE</td>
<td>NE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>STEL NE</td>
<td>NE</td>
<td></td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>TWA 400[2]</td>
<td>NE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>STEL NE</td>
<td>NE</td>
<td></td>
</tr>
<tr>
<td>Trade Secret #5</td>
<td>TWA NE</td>
<td>NE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>STEL NE</td>
<td>NE</td>
<td></td>
</tr>
</tbody>
</table>

**TABLE FOOTNOTES**

1. NE=Not established.

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

ENGINEERING CONTROLS: None required under ordinary circumstances.

PERSONAL PROTECTIVE EQUIPMENT

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

SKIN: Neoprene or Barrier™ gloves.

RESPIRATORY: None required under normal conditions.

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: Yellow.

ODOR: Bland.

ODOR THRESHOLD: No data available.

pH: 5.5-6.5 (5% aqueous soln.)

FREEZING POINT: No data available.

INITIAL BOILING POINT: No data available.

FLASHPOINT: 55°C (131°F) (PM)

EVAPORATION RATE: No data available.

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

FLAMMABLE LIMITS: No data available.

VAPOR PRESSURE: No data available.

VAPOR DENSITY: No data available.

RELATIVE DENSITY: 1.02

SOLUBILITY IN WATER: Insoluble.

PARTITION COEFFICIENT (Log K_{ow}): No data available.

AUTOIGNITION TEMPERATURE: No data available.

DECOMPOSITION TEMPERATURE: No data available.

VISCOITY: 44 cSt

PERCENT VOLATILE: ~57

10. STABILITY AND REACTIVITY

REACTIVITY: No.

CHEMICAL STABILITY: Stable.

POSSIBILITY OF HAZARDOUS REACTIONS: Polymerization will not occur.

CONDITIONS TO AVOID: High heat.

INCOMPATIBLE MATERIALS: Strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Burning produces toxic vapors.
11. TOXICOLOGICAL INFORMATION

ROUTES OF EXPOSURE: Inhalation and skin.

ACUTE TOXICITY (ATE)

DERMAL LD$_{50}$: Insufficient data available.

ORAL LD$_{50}$: Insufficient data available.

INHALATION LC$_{50}$: Insufficient data available.

CHRONIC TOXICITY

TARGET ORGANS: Components of this product caused liver and/or kidney effects in lab animals; the relevance to humans is unknown. Components of this product may affect the central nervous system.

SENSITIZATION: Insufficient data available.

CARCINOGENICITY

IARC: Components of this product are classified as Group 2B (Possibly carcinogenic to humans).

NTP: Not listed as a carcinogen.

OSHA: Not listed as a carcinogen.

OTHER: ACGIH: A trace component of this product is classified as A3 (Confirmed animal carcinogen with unknown relevance to humans).

OTHER: No data available.

REPRODUCTIVE EFFECTS: A component of this product caused fetotoxicity in laboratory animals at doses that are maternally toxic.

MUTAGENICITY: Insufficient data available.

SYNERGISTIC MATERIALS: No data available.

POTENTIAL HEALTH EFFECTS

EYES: Cause serious eye damage.

SKIN: Prolonged or repeated contact may cause dermatitis.

SKIN ABSORPTION: Insufficient data available.

INGESTION: May be harmful if swallowed. May cause burns to mouth, throat, stomach. In the case of vomiting, product may be aspirated into lungs causing chemical pneumonia, which in extreme cases could lead to death. See section 4, First Aid Measures, for more information.

ASPIRATION HAZARD: There is insufficient data available to classify this product as an aspiration hazard. Follow the precautions under INGESTION.

INHALATION: May be harmful if inhaled. Repeated or prolonged exposure may cause central nervous system effects and unconsciousness.

MEDICAL CONDITIONS AGGRAVATED: Pre-existing eye, skin, and respiratory conditions.

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

12. ECOLOGICAL INFORMATION

ECOTOXICITY: Insufficient data available.

PERSISTENCE AND DEGRADABILITY: Insufficient data available.

BIOACCUMULATIVE POTENTIAL: Insufficient data available.

MOBILITY IN SOIL: Insufficient 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:** Flammable Liquid, NOS
- **TECHNICAL NAME:** Isopropanol
- **PRIMARY HAZARD CLASS/DIVISION:** 3
- **UN/NA NUMBER:** UN1993
- **PACKING GROUP:** III
- **LABEL:** Flammable Liquid (Class 3), where applicable.
- **OTHER SHIPPING INFORMATION:** No data available.

**CANADA TRANSPORT OF DANGEROUS GOODS**

- **PROPER SHIPPING NAME:** Flammable Liquid, NOS
- **PRIMARY HAZARD CLASS/DIVISION:** 3
- **UN/NA NUMBER:** UN1993
- **PACKING GROUP:** III
- **LABEL:** Flammable Liquid (Class 3), where applicable.
- **OTHER SHIPPING INFORMATION:** No data available.

**AIR (ICAO/IATA)**

- **PROPER SHIPPING NAME:** Flammable Liquid, NOS
- **PRIMARY HAZARD CLASS/DIVISION:** 3
- **UN/NA NUMBER:** UN1993
- **PACKING GROUP:** III
- **LABEL:** Flammable Liquid, NOS (Class 3) label required when shipped by air.
- **PLACARD:** Consult applicable regulations governing air shipments.
- **IATA NOTE:** Consult applicable regulations on packaging requirements and quantity limitations.

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:** 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**

Regulated for transportation.

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

**CALIFORNIA**
PROPOSITION 65 STATEMENT: Certain components of this product are on the Proposition 65 list of chemicals known to the State of California to cause cancer.

### 16. OTHER INFORMATION

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

**NFPA RATINGS**

**SDS Revision Date:** November 6, 2015