Material Safety Data Sheet

May be used to comply with
OSHA's Hazard Communication Standard
29 CFR 1910.1200. Standard must be consulted for specific requirements

IDENTITY
Permanent Hair Dyes Containing Ethanol

Section I

Manufacturer's Name
L'Oreal USA Products, Inc.

Address (Number, Street, City, State, and ZIP Code)
111 Terminal Avenue

Clark, NJ 07066

Emergency Telephone Number
(800) 535-5053 (Int'l 352-323-3500)

Telephone Number For Information
(732) 499-2745

Date Prepared
December 18, 2003

Signature of Preparer (optional)
GCD

Section II - Hazardous Ingredients/Identity Information

<table>
<thead>
<tr>
<th>Hazardous Components (Specific Chemical Identity;Common Name(s))</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other Limits Recommended</th>
<th>% (optional)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>1000 ppm</td>
<td></td>
<td></td>
<td>&lt;10</td>
</tr>
<tr>
<td>Ethanolamine</td>
<td>3 ppm</td>
<td></td>
<td></td>
<td>&lt;10</td>
</tr>
<tr>
<td>Ethoxydiglycol</td>
<td></td>
<td></td>
<td></td>
<td>&lt;10</td>
</tr>
<tr>
<td>Ammonium Hydroxide</td>
<td></td>
<td>25 ppm</td>
<td></td>
<td>&lt;7</td>
</tr>
<tr>
<td>p-Phenylenediamine</td>
<td></td>
<td>0.1mg/m³</td>
<td></td>
<td>&lt;5</td>
</tr>
<tr>
<td>Aminophenols</td>
<td>None</td>
<td></td>
<td></td>
<td>&lt;2</td>
</tr>
<tr>
<td>Resorcinol</td>
<td></td>
<td>10 ppm</td>
<td></td>
<td>&lt;1</td>
</tr>
<tr>
<td>Hydroquinone</td>
<td></td>
<td>2 mg/m³</td>
<td></td>
<td>&lt;1</td>
</tr>
</tbody>
</table>

Section III - Physical/Chemical Characteristics

Boiling Point
170-200°F

Specific Gravity (H2O = 1)
0.9-1.0

Vapor Pressure (mm Hg)
N/A

Melting Point
N/A

Vapor Density (AIR = 1)
<1

Evaporation Rate
Butyl Acetate = 1
>1

Solubility in Water
Soluble
pH = 9.0-11.5

Appearance and Odor
Clear yellow to amber watery liquid with an alcoholic/ammonical odor.

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)
80-120°F (closed cup)

Flammable Limits
Ethanol
3.3%
19%

Extinguishing Media
Carbon dioxide, dry chemical, foam, and/or water spray.

Special Fire Fighting Procedures
For small fires, use carbon dioxide, dry chemical, and/or foam.
For larger fires, use ample quantities of water.

Unusual Fire and Explosion Hazards
None; however, observe usual precautions for handling of flammable materials.
For manufacturing, minimize airborne vapor levels through engineering controls.
**Section V - Reactivity Data**

<table>
<thead>
<tr>
<th>Stability</th>
<th>Unstable</th>
<th>Conditions to Avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stable</td>
<td>X</td>
<td>Avoid heat, fire, flame, and other sources of ignition.</td>
</tr>
</tbody>
</table>

Incompatibility (Materials to Avoid)

Oxidizing agents and nitric acid.

**Hazardous Decomposition or Byproducts**

None known.

<table>
<thead>
<tr>
<th>Condition</th>
<th>May Occur</th>
<th>Conditions to Avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Will Not Occur</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>None known.</td>
<td></td>
</tr>
</tbody>
</table>

**Section VI - Health Hazard Data**

<table>
<thead>
<tr>
<th>Route(s) of Entry</th>
<th>Inhalation?</th>
<th>Skin?</th>
<th>Ingestion?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Yes</td>
<td>Yes</td>
<td>No likely.</td>
</tr>
</tbody>
</table>

**Health Hazards (Acute and Chronic)**

Harmful if swallowed, inhaled, or absorbed through skin. This product may cause serious irritant, respiratory, and/or allergic reactions in sensitive individuals.

**Carcinogenicity:**

NTP? | IARC Monographs? | OSHA Regulated?
---|------------------|-----------------
No | No | No |

**Signs and Symptoms of Exposure**

Signs of alcohol intoxication may occur following ingestion or prolonged inhalation. Also, possible irritation of eyes, skin, and mucous membranes. Possible irritant/allergic dermatitis and respiratory signs and symptoms, the onset of which may be delayed.

**Medical Conditions Generally Aggravated by Exposure**

Existing dermatological conditions, such as eczema, and respiratory conditions, such as bronchial asthma and/or chronic bronchitis, may be exacerbated.

**Emergency and First Aid Procedure**

If swallowed, call a physician, hospital emergency room, or poison control center immediately. Induce vomiting only if recommended by medical personnel. Get prompt medical attention. If affected by inhalation, move to fresh air. If symptoms persist, get medical attention. If eye or skin contact occurs, immediately flush with water and get medical attention if irritation occurs.

**Section VII - Precautions for Safe Handling and Use**

**Steps to be Taken in Case Material is Released or Spilled**

Eliminate all sources of ignition. Dike and contain the free liquid, if any, and absorb on vermiculite, spill pillows, or other suitable absorbant material. Place spent absorbants in proper containers for disposal.

**Waste Disposal Method**

This material is not regulated under RCRA. Accordingly, incineration at a non-hazardous waste treatment facility is the preferred method of disposal.

**Precautions to be Taken in Handling and Storage**

Store bulk quantities in a cool, well-ventilated room away from ignition sources. Avoid contact with eyes and skin (other than areas of application). Do not inhale or ingest. Prepare and use in a well-ventilated area. To assure maximum shelf-life, avoid direct sunlight.

**Other Precautions**

For external use only. Use only as directed. Keep out of reach of children. Patch test is intended to identify skin reaction only; it will not necessarily predict sensitization or irritation secondary to inhalation. Read the product package insert completely.
Section VIII - Control Measures

Respiratory Protection (Specify Type)

For manufacturing/filling, wear a NIOSH-approved respirator if constituent TLVs are exceeded. For spill management, use an approved self-contained breathing apparatus. For product use, respiratory protection is generally unnecessary.

<table>
<thead>
<tr>
<th>Ventilation</th>
<th>Local Exhaust</th>
<th>Explosion-Proof</th>
<th>Special</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mechanical(General)</td>
<td>Explosion-Proof</td>
<td>Other</td>
</tr>
</tbody>
</table>

Protective Gloves

Plastic or rubber gloves.

Other Protective Clothing or Equipment

Safety glasses with side shields and protective clothing for bulk quantities.

Work/Hygienic Practices

OSHA hazard classification: Flammable/combustible, irritant, slightly toxic, possible sensitizer.

DOT classification: Bulk - Not regulated.
                 Finished Product - Not regulated.