Gillette Medical Evaluation Laboratories  
401 Professional Drive  
Gaithersburg, Maryland 20879  
301-590-9781

MATERIAL SAFETY DATA SHEET

NAME: GILLETTE WHITE RAIN HAIR SPRAY (AEROSOL)  
CAS NO: NA  
Effective Date: 1/31/92  
Rev: NA

A. - IDENTIFICATION

<table>
<thead>
<tr>
<th>Composition* (1% or greater)</th>
<th>%</th>
<th>Formula:</th>
</tr>
</thead>
<tbody>
<tr>
<td>SD Alcohol 40 (See Footnotes)</td>
<td></td>
<td>Mixture</td>
</tr>
<tr>
<td>Propellant-Isobutane (75-28-5); Propane (74-98-6); Butane (106-97-8)</td>
<td></td>
<td>Molecular Weight: NA</td>
</tr>
<tr>
<td>Ethyl Ester of PVM/MA Copolymer (50935-57-4)</td>
<td></td>
<td>Synonyms</td>
</tr>
<tr>
<td>White Rain</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

B. - PHYSICAL DATA

<table>
<thead>
<tr>
<th>Boiling Point</th>
<th>Melting Point</th>
<th>Freezing Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>173 °F</td>
<td>NA °C</td>
<td>NA °C</td>
</tr>
<tr>
<td>78 °C</td>
<td>NA °F</td>
<td>NA °F</td>
</tr>
<tr>
<td></td>
<td>NA °C</td>
<td>NA °C</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Specific Gravity (H₂O=1)</th>
<th>Vapor Density (air=1)</th>
<th>Vapor Pressure @ 68 °F</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;1 (liquid)</td>
<td>1.59</td>
<td>44 mmHg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Evaporation</th>
<th>Saturation in Air</th>
<th>Autoignition Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Ether =1)</td>
<td>(by volume @ 68 °F)</td>
<td>(lowest found)</td>
</tr>
<tr>
<td>Slower</td>
<td>NA %</td>
<td>685 °F 363 °C</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>% Volatiles (by volume)</th>
<th>Solubility in Water</th>
<th>pH</th>
<th>NA</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;90</td>
<td>Soluble</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Appearance/Odor: Clear liquid with alcoholic odor

Flash Point and Test Method(s): 550°F (Ethyl Alcohol)

Flammable Limits in Air (Ethyl Alcohol)  
Lower 3.3 %  
Upper 19 %

C. - REACTIVITY

<table>
<thead>
<tr>
<th>Stability</th>
<th>Conditions to Avoid</th>
<th>Polymerization</th>
<th>Conditions to Avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td>stable</td>
<td></td>
<td>may occur</td>
<td></td>
</tr>
<tr>
<td>unstable</td>
<td>X</td>
<td>will not occur</td>
<td>NA</td>
</tr>
</tbody>
</table>

Incompatible Materials  
Strong oxidizers

Hazardous Decomposition Products  
Thermal decomposition may produce oxides of carbon and nitrogen; hydrocarbons and derivatives.

*IF MULTIPLE INGREDIENTS INCLUDE CAS NUMBERS FOR EACH  
NA: NOT AVAILABLE

Footnotes:  
SD Alcohol 40 is denatured ethyl alcohol (CAS# 64-17-5). Physical data except Specific Gravity and % Volatiles, refers to ethyl alcohol. For flammable limits in air, also consider propellant.
## D. HEALTH HAZARD DATA

### Occupational Exposure Limits (PEL'S, TLV'S, etc.)

- 8-hour TWA's:
  - Ethyl Alcohol - 1000 ppm (OSHA/ACGIH)
  - Propane - 1000 ppm (OSHA)
  - Butane - 800 ppm (OSHA/ACGIH)

These levels are not anticipated under foreseeable use conditions.

### Warning Signals

NA

### Routes/Effects of Exposure

1. **Inhalation**
   
   No adverse effects anticipated from normal use. If vapors are deliberately concentrated and inhaled (abuse) the following symptoms may occur: Respiratory irritation, dizziness, drowsiness, headache, nausea, unconsciousness, cardiac sensitization, coma and death.

2. **Ingestion**
   
   No adverse effects anticipated from normal use. Depending on amounts ingested most of the symptoms described above may occur.

3. **Skin**
   
   a. **Contact**
      
      No adverse effects anticipated from normal use.

   b. **Absorption**
      
      No adverse effects anticipated from normal use.

4. **Eye Contact**
   
   Irritation. Do not spray in eyes.

5. **Other**

   NA

## E. ENVIRONMENTAL IMPACT

1. **Applicable Regulations**
   
   Labelled as flammable aerosol according to CPSC 16 CFR 1500.130
   
   Classified as Level II aerosol for storage purposes.
   
   (NFPA/Factory Mutual)

2. **DOT Hazard Class**

   ORM-D

3. **DOT Shipping Name**

   Consumer Commodity

### Environmental Effects

NA
F. EXPOSURE CONTROL METHODS

Engineering Controls
None under normal use conditions

Eye Protection
None under normal use conditions

Skin Protection
None under normal use conditions

Respiratory Protection
None under normal use conditions

Other
Product is nonhazardous when used as directed in a room with normal air circulation. KEEP OUT OF REACH OF CHILDREN.

G. WORK PRACTICES

Handling and Storage
The product is flammable. Use with adequate ventilation. Avoid heat, sparks, flame or smoking during use and until hair is thoroughly dry. Keep from extreme cold. Contents under pressure. Do not expose to heat or store at temperatures above 120°F. When stored in large quantities (as in warehouse), it should be in a well ventilated, cool area.

Classified as Level II aerosol for storage purposes (NFPA/Factory Mutual).

Normal Clean Up
None expected due to aerosol packaging. If small amount of concentrate leaks through rupture, etc. allow to evaporate providing spark/static free ventilation.

Waste Disposal Methods
Dispose according to local, state and federal regulations. Do not puncture or incinerate.
H. EMERGENCY PROCEDURES
Steps to be taken if material is released to the environment or spilled in the work area

Not applicable

Fire and Explosion Hazard
Flammable aerosol product. Container may rocket or explode in heat of fire. Hazardous decomposition products. See Sec. C.

Extinguishing Media
As for adjacent fire. Dry chemical, foam, carbon dioxide, water fog.

Firefighting Procedures
In fires involving large quantities of product self-contained breathing apparatus should be used. Fight fire from a distance or protected area. Cool and use caution when handling fire-exposed containers.

I. FIRST AID AND MEDICAL EMERGENCY PROCEDURES

Eyes
Flush with plenty of tepid, clear water. If irritation persists obtain medical attention.

Skin
Wash with soap and water.

Inhalation
No adverse effects anticipated from normal use. In an abuse situation, remove from source of exposure. Treat symptomatically. Oxygen may be administered. Seek medical attention immediately and refer to "Notes to Physician" below.

Ingestion
Consult physician.

Notes to Physician
Ethyl alcohol contains t-butyl alcohol and brucine sulfate as denaturants.

If large amounts have been ingested, the physician may at his discretion administer an emetic or mechanically empty the stomach.

Cardiac sensitization to hydrocarbon propellant may occur. Do not use sympathomimetic agents (e.g. epinephrine) because of possible induction of ventricular fibrillation.

The information contained in the Material Safety Data Sheet is based on data considered to be accurate, however, no warranty is expressed or implied regarding the accuracy of the data or the results to be obtained from the use thereof.