

## Gillette Medical Evaluation Laboratories

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| NAME: LIQUID PAPER CORRECTION CAS NO: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ON FLUID (W    | HITE                |                                                                         |                     |            |                  | NF Λ       |
| <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                | -                   | Effective                                                               | e Date: 11/28 /8    | ) 7 (.     | ?ev: <u>'</u>    | YA         |
| A IDENTIFICATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                     |                                                                         |                     |            |                  |            |
| Composition*  1,1,1-Trichloroethane (71-55-6) Titanium Dioxide (13463-67-7) Resin(s) Mineral Spirits (64741-65-7) Di(2-ethylhexyl)Phthalate (117-81-7) Mustard Oil (57-06-7) Colorant(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                | %                   | Formula: Mixtu                                                          | ire                 |            |                  |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                     | Molecular Weight: N                                                     | IA .                |            |                  |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                     | Synonyms                                                                |                     |            |                  |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                     |                                                                         |                     |            |                  |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                     | Liquid Paper                                                            | `                   |            |                  |            |
| B PHYSICAL DATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                     |                                                                         |                     |            |                  |            |
| Boiling Point Mel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |                     | Point Freezing Point                                                    |                     |            | - Maring a de la |            |
| <u>165</u> ° <sub>F</sub> <u>74</u> ° <sub>C</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NA             | _ °F                | NA °c                                                                   |                     | °F         | NA               | _°c        |
| Specific Gravity (H <sub>2</sub> O=1) Vapor (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                | Density             | / (air=1)                                                               | Vapor Pressure @    | 68         |                  | °F         |
| <u>~1.7</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |                     | 5                                                                       |                     | 100        | mm               | Нд         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                     | in Air Autoignition Temperature                                         |                     |            |                  |            |
| ( Ether =1) (by volume @ _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                |                     |                                                                         |                     | °F         |                  | °c         |
| <u>Slower</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                     | %                                                                       |                     | NA         |                  |            |
| % Volatiles (by volume) S ~50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                | Solubility in Water |                                                                         | pH                  | NΑ         |                  |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                     |                                                                         | рп                  |            |                  |            |
| Appearance/Odor White or o                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | colored flu    | id wi               | th a pungent so                                                         | lvent odor          |            |                  |            |
| Flash Point and > 200°F, > 9 Test Method(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 93°C (Clos     | ed Cu               | p) Product is                                                           | non-flammable       | <b>a</b> . |                  | ,          |
| Flammable Limits in Air (See Section                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |                     |                                                                         |                     |            |                  |            |
| (% by volume) Lower                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NA_            | %                   | Uppe                                                                    | er <u>NA</u>        | %          |                  |            |
| C REACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |                     |                                                                         |                     |            | *. •             |            |
| Stability Conditions to Avoid Contact with open flame of other high temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                     | Polymerization                                                          | Conditions to Avoid | d          |                  |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                     | may occur                                                               | NA                  |            |                  |            |
| unstable source.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | stable source. |                     |                                                                         |                     |            |                  |            |
| Incompatible Materials For solvent: oxidizers; aluminum, zinc and reactive metals (e.g., potass magnesium).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | d other        |                     | Hazardous Decompos<br>tion, e.g., op<br>amounts of pho<br>and chlorine. | en flame, can       | produc     | c <b>e</b> sma   | ia-<br>ill |
| *IF MULTIPLE INGREDIENTS INC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | LUDE CAS N     | IUMBI               | ERS FOR EACH                                                            | NA=NO               | TAVA       | LABL             | Е          |
| Footnotes:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | - + 0/ 1/ 3    | ,                   |                                                                         |                     |            |                  |            |
| Physical data, exception of the control of the cont | ot % Volati    | ies a               | ind Specific Gra                                                        | ivity, refers to    | 0          |                  |            |

### D. - HEALTH HAZARD DATA

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

8 Hour TWA's: 1,1,1-Trichloroethane - 350 ppm (OSHA/ACGIH)

Titanium Dioxide - 10 mg/cu m (OSHA/ACGIH)
Di(2-ethylhexyl)Phthalate - 5 mg/cu m (OSHA/ACGIH)

These levels are not anticipated under foreseeable use conditions.

Warning Signals

NA

#### Routes/Effects of Exposure

1. Inhalation None anticipated under foreseeable use conditions. If vapors are deliberately concentrated and inhaled (abuse), following symptoms may occur: respiratory irritation, dizziness, drowsiness, headache, nausea, unconsciousness, cardiac sensitization (abnormal heartbeat), coma and death. (Mustard oil is added to the product as an abuse deterrent.)

2. Ingestion

None anticipated under foreseeable use conditions. Depending on amount ingested, most of the symptoms described above may occur. Estimated LD<sub>50</sub> in rats is greater than 5 ml/kg or between 1 pint and 1 quart in humans (ref. Gosselin, Smith and Hodge, Clinical Toxicology of Commercial Products, 5th ed., 1984).

a. Contact

None anticipated under foreseeable use conditions. Irritation may occur if contact is prolonged/repeated.

b. Absorption

None anticipated under foreseeable use conditions. Solvent can be absorbed through skin (prolonged contact), but not likely in acutely toxic amounts. Estimated  ${\rm LD}_{50}$  in rabbits is greater than 5 ml/kg.

4. Eye Contact

Irritation

5. Other

See Statement Below

#### E. - ENVIRONMENTAL IMPACT

1. Applicable Regulations

NA

- 2. DOT Hazard Class --
- 3. DOT Shipping Name -

**Environmental Effects** 

NA

Other: Based on animal feeding studies, Di(2-ethylhexyl)Phthalate or DEHP is listed by IARC and NTP as a possible human carcinogen, if ingested. Normal use of this product would result in no ingestion of DEHP. There is no evidence of cancer due to isolated incidents of ingestion, such as accidental ingestion. A quantitative risk assessment demonstrates that DEHP in Liquid Paper is not a significant risk to humans because of its low concentration and low exposure potential.

# F. - EXPOSURE CONTROL METHODS **Engineering Controls** None under normal use conditions Eve Protection None under normal use conditions Skin Protection None under normal use conditions Respiratory Protection None under normal use conditions Other Product is non-hazardous when used as directed in an office/room with normal air circulation. G. - WORK PRACTICES Handling and Storage No unusual handling or storage when used as directed; when stored in large quantities (as in warehouse), it should be in a well-ventilated, cool area. Normal Clean Up Pick up spills with towels, tissues, etc. and place in trash.

Waste Disposal Methods

Dispose as regular trash.

#### 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

Concentrated vapor of 1,1,1-Trichloroethane can burn, producing hazardous decomposition products (Sec. C).

#### Extinguishing Media

As for adjacent fire: dry chemical, foam, carbon dioxide, water fog

#### Firefighting Procedures

In fires involving large quantities of product, use self-contained breathing apparatus.

#### I. -- FIRST AID AND MEDICAL EMERGENCY PROCEDURES

#### Eves

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

#### Skin

Wash with soap and water.

#### Inhalation

None normally anticipated. In abuse situation, if breathing has stopped, administer artificial respiration and seek medical attention immediately.

#### Ingestion \*

Consult physician.

#### Notes to Physician

The formulation contains less than 5% petroleum distillates. Induction of vomiting should be considered at the discretion of the physician. Do not use sympathomimetic agents (e.g., epinephrine) in halogenated hydrocarbon poisoning 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.

MSDS-3 (8/88)