

## ISO/IEC 17025 Certified Third Party Test Report

DATE: April 30, 2012

FILE: MCRSAF.A040612C

CLIENT: MCR Safety  
5231 E Shelby Dr.  
Memphis, TN 38118

ATTN: Vipin Myneni

SAMPLE IDENTIFIED BY CLIENT AS:

Vinyl Submitted  
Ref: 300 Series  
Color Yellow

TEST PROCEDURE:

TEST RESULTS:

RESISTANCE OF PROTECTIVE CLOTHING MATERIALS TO PENETRATION BY LIQUIDS  
(ASTM F903):

Temperature: 70°F

Specimen Area Exposed: 4.15in<sup>2</sup>

Thickness: 0.018in

Procedure: Method A (0 psig for 5 min, 2 psig for 10 min), talc leak indicator used

| Chemical Name             | Concentration | CAS Number | Results | Comment                  |
|---------------------------|---------------|------------|---------|--------------------------|
| Acetonitrile              | 100%          | 75-05-8    | Pass    |                          |
| 1,2 - Dichloroethane      | 100%          | 107-06-2   | Fail    | Permeated                |
| Ethanolamine              | 100%          | 141-43-5   | Pass    |                          |
| Ethyl Acrylate            | 100%          | 140-88-5   | Pass    |                          |
| Formaldehyde              | 37%           | 50-00-0    | Pass    |                          |
| Hexanes                   | 100%          | 110-54-3   | Pass    |                          |
| Hydrochloric Acid         | 37%           | 7647-01-0  | Pass    |                          |
| Hydrofluoric Acid         | 48%           | 7664-39-3  | Pass    |                          |
| Kerosene                  | 100%          | 8008-20-6  | Pass    |                          |
| Methyl Ethyl Ketone       | 100%          | 78-93-3    | Fail    | Corroded through surface |
| Methylene Chloride        | 100%          | 75-09-2    | Fail    | Corroded through surface |
| Naphtha (Mineral Spirits) | 100%          | N/A        | Pass    |                          |
| Nitric Acid               | 70%           | 7697-37-2  | Pass    |                          |
| Sodium Hydroxide          | 70%           | 1310-73-2  | Pass    |                          |
| Sodium Hypochlorite       | 100%          | 7681-52-9  | Pass    |                          |
| Styrene                   | 100%          | 100-42-5   | Fail    | Permeated                |
| Sulfuric Acid             | 70%           | 7664-93-3  | Pass    |                          |
| Toluene                   | 100%          | 108-88-3   | Pass    |                          |
| 1,1,1 - Trichloroethane   | 100%          | 71-55-6    | Pass    |                          |

Signed For The Company By

Adam R. Warley  
Technical Director

TT/04/140



*Stacy Sadowy*

Stacy Sadowy  
Quality Assurance Supervisor

