

Surface Cleaning Laboratory

University of Massachusetts • Lowell
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CLEANING CHEMISTRY QUESTIONNAIRE

The Toxics Use Reduction Institute maintains a vendor database of alternative cleaning chemistries, cleaning equipment and recycling/treatment equipment. The information listed below has previously been provided by you. Please make any necessary corrections and include any information that has not been supplied. Blank questionnaires are also included for any additional products that you would like to add to the database.

Return responses to: Jay Jankauskas
Toxics Use Reduction Institute
University of Massachusetts-Lowell
One University Avenue
Lowell, MA 01854-2866.

Trade Name of Product ND-17

Company Name MacDermid Inc.

Street Address 245 Freight Street Waterbury CT 06702

Contact Person/Title Robert Griffiths / Marketing Manager Telephone 203-575-5726 Fax

Provide a general description of your product and it's uses.

Mildly alkaline, liquid immersion cleaner.

Please check the classification that describes your product.

- | | |
|--|---|
| <input type="checkbox"/> Saponified Aqueous | <input type="checkbox"/> Petroleum Distillates |
| <input type="checkbox"/> Semi-Aqueous | <input type="checkbox"/> Organic |
| <input checked="" type="checkbox"/> Alkaline Aqueous | <input type="checkbox"/> HCFC |
| <input type="checkbox"/> Terpene | <input type="checkbox"/> Powder Detergent |
| <input type="checkbox"/> Acidic Aqueous | <input type="checkbox"/> Other (please specify) _____ |
| <input type="checkbox"/> Caustic | |

Please check the appropriate industries in which your product is used.

- | | |
|---|--|
| <input checked="" type="checkbox"/> Metal Fabrication/Finishing | <input type="checkbox"/> Precision Instruments |
| <input type="checkbox"/> Electronics/PCB's | <input type="checkbox"/> Medical |
| <input type="checkbox"/> Electronics/Semiconductor | <input checked="" type="checkbox"/> General Cleaning/Maintenance |
| <input type="checkbox"/> General Electronics | <input type="checkbox"/> Chemical Industry (tank & piping boil outs) |
| <input checked="" type="checkbox"/> Military | <input type="checkbox"/> Other (please specify) _____ |
| <input checked="" type="checkbox"/> Printing | |

Please check the contaminants that you product is known to remove.

- | | | |
|---|--|---|
| <input type="checkbox"/> Adhesives | <input checked="" type="checkbox"/> Inks | <input type="checkbox"/> Rust |
| <input checked="" type="checkbox"/> Buffing/polishing/lapping compounds | <input type="checkbox"/> Greases | <input type="checkbox"/> Scale |
| <input checked="" type="checkbox"/> Carbon Deposits | <input type="checkbox"/> Mold Release | <input type="checkbox"/> Silicones |
| <input type="checkbox"/> Conformal Coatings | <input checked="" type="checkbox"/> Oils | <input checked="" type="checkbox"/> Waxes |
| <input type="checkbox"/> Fluxes | <input type="checkbox"/> Paints/coatings | |
| <input type="checkbox"/> Other (please specify) _____ | | |

Please check the materials with which your product is compatible.

- | | |
|---|---|
| <input type="checkbox"/> Electronics | <input type="checkbox"/> Precious Metals (Gold, Silver) |
| <input type="checkbox"/> Ferrous Metals | <input type="checkbox"/> Copper and Brass |
| <input type="checkbox"/> Plastics | <input type="checkbox"/> Aluminum and Aluminum Alloys |
| <input type="checkbox"/> Rubber | |

Please check the following cleaning processes with which your product is compatible.

- | | |
|--|--|
| <input type="checkbox"/> High Pressure Spray | <input type="checkbox"/> Steam Cleaning |
| <input type="checkbox"/> Low Pressure Spray | <input type="checkbox"/> Cold Solvent Cleaning |
| <input type="checkbox"/> Immersion | <input type="checkbox"/> Vapor Degreasing |
| <input type="checkbox"/> Ultrasonics | |

Is your product designed to emulsify, dissolve or displace contaminants? (circle one)

If water dilutable, what is the recommended concentration range that your product may be used at?
10-20%

What is the recommended temperature range that your product may be used at?

Check off the following that your chemistry contains.

- | | |
|---|---|
| <input type="checkbox"/> Rinse Aids | <input type="checkbox"/> Anti-foam Agents |
| <input checked="" type="checkbox"/> Silicates | <input type="checkbox"/> Corrosion Inhibitors |
| <input type="checkbox"/> Sequestering Agents | <input type="checkbox"/> Caustic |

What is the average price of your product per gallon or lb? \$9.44/gal

Does your product meet any cleaning standards (ASTM, military or aircraft specs, FDA approval, etc.). If so please list.

Physical Properties

Percent Volatile: 6

Maximum Theoretical VOC Content: 154#/gal

Flash Point: N/A

HMIS Ratings:

Health: 1

Vapor Pressure: _____

Flammability: 0

pH of Concentrate: 12.8

Reactivity: 0

Surface Tension: _____