

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. Information from this database is published and provided to companies whom are searching for cleaning alternatives. Please provide the following for each product or product line:

1. Completed Questionnaire
2. MSDS
3. Technical Data sheets

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

Trade Name of Product BIO-Z  
Company Name INTERNATIONAL BIO SYSTEMS  
Address 928 WRIGHT AVENUE City MT VERN State CA Zip Code 94043  
Contact Person/Title JOHN STANLEY Telephone (415) 965-3025 Fax (415) 965-2925

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

AQUEOUS PRECISION CLEANER WITH HIGH CLEANING  
NO WATER AND COMPLETE HUMAN AND ENVIRONMENTAL SAFETY.  
WORKS AT LOW TEMPERATURES AND WITH FAST CLEANING AND RINSING

Please check the classification that describes your product.

- |  |   |
|--|---|
| <input type="checkbox"/> Saponified Aqueous        | <input type="checkbox"/> Petroleum Distillates        |
| <input type="checkbox"/> Semi-Aqueous              | <input checked="" type="checkbox"/> Organic           |
| <input type="checkbox"/> Alkaline Aqueous          | <input type="checkbox"/> HCFC                         |
| <input type="checkbox"/> Terpene                   | <input type="checkbox"/> Powder Detergent             |
| <input checked="" 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 checked="" type="checkbox"/> Precision Instruments            |
| <input type="checkbox"/> Electronics/PCB's                      | <input checked="" type="checkbox"/> Medical                          |
| <input type="checkbox"/> Electronics/Semiconductor              | <input type="checkbox"/> General Cleaning/Maintenance                |
| <input checked="" type="checkbox"/> General Electronics         | <input type="checkbox"/> Chemical Industry (tank & piping boil outs) |
| <input checked="" type="checkbox"/> Military                    | <input checked="" type="checkbox"/> Other (please specify) _____     |
| <input type="checkbox"/> Printing                               | <u>SPRINK AND AEROSOL SPRAY INDUSTRIES</u>                           |

Please check the contaminants that your 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 checked="" type="checkbox"/> Greases | <input checked="" type="checkbox"/> Scale     |
| <input checked="" type="checkbox"/> Carbon Deposits                     | <input type="checkbox"/> Mold Release       | <input checked="" 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 checked="" type="checkbox"/> Electronics | <input checked="" type="checkbox"/> Precious Metals (Gold, Silver) |
| <input type="checkbox"/> Ferrous Metals         | <input checked="" type="checkbox"/> Copper and Brass               |
| <input checked="" type="checkbox"/> Plastics    | <input checked="" type="checkbox"/> Aluminum and Aluminum Alloys   |
| <input checked="" type="checkbox"/> Rubber      |  |

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

- |  |   |
|--|---|
| <input type="checkbox"/> High Pressure Spray           | <input checked="" type="checkbox"/> Steam Cleaning        |
| <input checked="" type="checkbox"/> Low Pressure Spray | <input checked="" type="checkbox"/> Cold Solvent Cleaning |
| <input checked="" type="checkbox"/> Immersion          | <input type="checkbox"/> Vapor Degreasing                 |
| <input checked="" 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% to 20%

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

90°F TO 110°F

Check off the following that your chemistry contains.

- |  |   |
|--|---|
| <input type="checkbox"/> Rinse Aids          | <input type="checkbox"/> Anti-foam Agents     |
| <input 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? \$45.00 / GAL

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

EPA VOC STD. SW 846-8260

## Physical Properties

Percent Volatile: 0

Maximum Theoretical VOC Content: 0

Flash Point: N/A

HMIS Ratings:

Health: 0

Vapor Pressure: N/A

Flammability: 0

pH of Concentrate: 3.0

Reactivity: 0

Surface Tension: 27.2 dy/cm