



**TURI SURFACE CLEANING LABORATORY**  
**CLEANING CHEMICAL QUESTIONNAIRE**

See letter for submission instructions.

**Material Safety Data Sheet (MSDS)**  
**MUST Be Attached**  
 (and Technical Data Sheet, if available)

1. Product/Trade Name (Please use a separate questionnaire for each cleaning chemical you want listed in the Directory)  
Zymit Low-Foam Enzyme Cleaner Generic Chemical Family: Enzyme Cleaner

Meets Specified Standard(s): ASTM: \_\_\_\_\_ Mil Spec: \_\_\_\_\_ FDA: \_\_\_\_\_ Other: \_\_\_\_\_

Primary Cleaner Classification (Check only one):

- |   |   |  |                                       |
|---|---|--|---------------------------------------|
| <input type="checkbox"/> Acidic Aqueous   | <input type="checkbox"/> Semi-Aqueous         | <input type="checkbox"/> Powder detergent            | <input type="checkbox"/> Extracting   |
| <input type="checkbox"/> Neutral Aqueous  | <input type="checkbox"/> Terpene              | <input checked="" type="checkbox"/> <u>Enzymatic</u> | <input type="checkbox"/> HCFC         |
| <input type="checkbox"/> Alkaline Aqueous | <input type="checkbox"/> Petroleum distillate | <input checked="" type="checkbox"/> <u>Microbial</u> | <input type="checkbox"/> Alcohol      |
| <input type="checkbox"/> Caustic          | <input type="checkbox"/> Organic              | <input type="checkbox"/> Blasting                    | <input type="checkbox"/> Other: _____ |

2. Chemical Constituents (Check all that apply & specify) Example : Builder: Sodium Hydroxide 50% (as Concentrate)

Cleaner Containing:  At Least Some Water ( \_\_\_\_\_ %) OR  No/Minimal Water

<input type="checkbox"/> Builder: _____	<input type="checkbox"/> Water conditioner/Sequestering/	<input type="checkbox"/> Supercritical fluid: _____
<input checked="" type="checkbox"/> Surfactant: <u>Proprietary</u>	Chelating agent: _____	
<input type="checkbox"/> Emulsifier: _____	<input checked="" type="checkbox"/> Corrosion inhibitor/Rust	<input type="checkbox"/> Blasting medium: _____
<input type="checkbox"/> Saponifier: _____	prohibitor: <u>Proprietary</u>	
<input checked="" type="checkbox"/> Other: <u>Water</u>	<input type="checkbox"/> Anti-microbial: _____	<input checked="" type="checkbox"/> Other: <u>Enzymes</u>
<input type="checkbox"/> Rinse aid/Silicate: _____		

3. Industrial Applications (Number all that apply, Most Used = 1)

- |  |  |  |   |
|--|--|--|---|
| <input type="checkbox"/> Aerospace/Military            | <input type="checkbox"/> Metal Finishing   | <input type="checkbox"/> PCBs                  | <input type="checkbox"/> Semiconductors                                       |
| <input type="checkbox"/> Cleanrooms                    | <input type="checkbox"/> Metal Fabrication | <input type="checkbox"/> Plastics              | <input checked="" type="checkbox"/> <u>General Cleaning (floors, etc)</u> = 2 |
| <input type="checkbox"/> Basic Electronics             | <input type="checkbox"/> Optics            | <input type="checkbox"/> Precision Instruments | <input type="checkbox"/> Maint./Repair (engines, etc.)                        |
| <input checked="" type="checkbox"/> <u>Medical</u> = 1 | <input type="checkbox"/> Painting          | <input type="checkbox"/> Printing              | <input type="checkbox"/> Other: _____   |

4. Contaminant Removal (Check all that apply & specify, if possible) Example : Coatings Conformal

- |  |   |  |   |   |
|--|---|--|---|---|
| <input type="checkbox"/> Adhesives                   | <input type="checkbox"/> Coatings               | <input checked="" type="checkbox"/> <u>Greases</u> | <input type="checkbox"/> Mold releases/ | <input type="checkbox"/> Rust/Scale   |
| <input type="checkbox"/> Buffing/polishing compounds | <input type="checkbox"/> Cutting/tapping fluids | <input type="checkbox"/> Inks                      | <input type="checkbox"/> Silicones      | <input type="checkbox"/> Waxes  |
| <input type="checkbox"/> Carbon deposits             | <input type="checkbox"/> Fluxes                 | <input type="checkbox"/> Lubricating/lapping oils  | <input type="checkbox"/> Paints         | <input type="checkbox"/> Oil  |
|  |   |  | <input type="checkbox"/> Resins/Rosins  | <input checked="" type="checkbox"/> Other: <u>Blood, Starches, Protein deposits</u> |

5. Substrate Compatibility (Check all that apply)

- |  |   |   |  |   |
|--|---|---|--|---|
| <input type="checkbox"/> Aluminum                | <input checked="" type="checkbox"/> <u>Carbon steel</u>     | <input checked="" type="checkbox"/> <u>Glass/quartz</u>       | <input type="checkbox"/> Rubber                            | <input checked="" type="checkbox"/> <u>Nickel</u> |
| <input type="checkbox"/> Alloys (Specify):       | <input checked="" type="checkbox"/> <u>Ceramics</u>         | <input checked="" type="checkbox"/> <u>Gold</u>               | <input checked="" type="checkbox"/> <u>Stainless steel</u> | <input checked="" type="checkbox"/> <u>Tin</u>    |
|  | <input checked="" type="checkbox"/> <u>Copper</u>           | <input checked="" type="checkbox"/> <u>Plastic (Specify):</u> | <input checked="" type="checkbox"/> <u>Steel</u>           | <input type="checkbox"/> Other: _____             |
| <input checked="" type="checkbox"/> <u>Brass</u> | <input checked="" type="checkbox"/> <u>Galvanized steel</u> | <input checked="" type="checkbox"/> <u>Sterling/silver</u>    |  |   |

6. Equipment Compatibility (Check all that apply & specify, if applicable)

- |   |   |  |           |
|---|---|--|-----------|
| <input type="checkbox"/> Cold Solvent                     | <input checked="" type="checkbox"/> <u>Mechanical Agitation</u> | <input type="checkbox"/> Low Pressure Spray  | psi-range |
| <input type="checkbox"/> Vapor Degreasing                 | <input checked="" type="checkbox"/> <u>Ultrasonics</u>          | <input type="checkbox"/> High Pressure Spray | psi-range |
| <input type="checkbox"/> Manual Wipe                      | <input type="checkbox"/> Media Blasting                         | <input type="checkbox"/> Other: _____        |           |
| <input checked="" type="checkbox"/> <u>Immersion/Soak</u> | <input type="checkbox"/> Supercritical Extract                  |  |           |

7. Recommended Concentrations: 1 - 10% Percent Volume (range) \_\_\_\_\_

Recommended Temperatures: 41-86 Deg. F (range) 5-30°C

8. Important Physical and Chemical Properties:

Maximum theoretical VOC content: D (negligible)

GWP: \_\_\_\_\_

Surface Tension: \_\_\_\_\_

pH 7.0 Density: 1.05 g/ml

ODP: \_\_\_\_\_

Kb value: \_\_\_\_\_

HMIS: 2 0 0 B Other: \_\_\_\_\_

9. Cost per pound/gallon: Smallest-unit price:  $\frac{\text{Case of } 6 \times 1 \text{ liter } \$ 72.00/\text{ca.}}{6 \times 1 \text{ liter } 5}$  Large-volume price:  $\frac{210 \text{ kg (200 lb) drum } \$ 1,500.}{210 \text{ kg (200 lb) drum } 1}$  US\$

10. Additional pertinent information not found elsewhere on this form or MSDS:

*see enclosed brochure*