



**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)**

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1. Product/Trade Name (Please use a separate questionnaire for each cleaning chemical you want listed in the Directory)  
LF2100<sup>B</sup> Low-Foam Cleaner Generic Chemical Family: Low-Foam Aqueous 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 type="checkbox"/> Enzymatic/       | <input type="checkbox"/> HCFC         |
| <input checked="" type="checkbox"/> Alkaline Aqueous | <input type="checkbox"/> Petroleum distillate | <input type="checkbox"/> Microbial        | <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 checked="" type="checkbox"/> Water conditioner/Sequestering/ | <input type="checkbox"/> Supercritical fluid: _____ |
| <input checked="" type="checkbox"/> Surfactant: <u>blends</u> | <input checked="" type="checkbox"/> Chelating agent: <u>blend</u>   | <input type="checkbox"/> Blasting medium: _____     |
| <input type="checkbox"/> Emulsifier: _____                    | <input type="checkbox"/> Corrosion inhibitor/Rust                   | <input type="checkbox"/> Other: _____               |
| <input type="checkbox"/> Saponifier: _____                    | <input type="checkbox"/> prohibitor: _____                          |   |
| <input type="checkbox"/> Other: _____                         | <input type="checkbox"/> Anti-microbial: _____                      |   |
| <input type="checkbox"/> Rinse aid/Silicate: _____            |   |   |

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

- |  |   |  |   |
|--|---|--|---|
| <input checked="" type="checkbox"/> Aerospace/Military | <input checked="" type="checkbox"/> Metal Finishing   | <input type="checkbox"/> PCBs                  | <input type="checkbox"/> Semiconductors                             |
| <input checked="" type="checkbox"/> Cleanrooms         | <input checked="" type="checkbox"/> Metal Fabrication | <input checked="" type="checkbox"/> Plastics   | <input checked="" type="checkbox"/> General Cleaning (floors, etc.) |
| <input checked="" type="checkbox"/> Basic Electronics  | <input checked="" type="checkbox"/> Optics            | <input type="checkbox"/> Precision Instruments | <input checked="" type="checkbox"/> Maint./Repair (engines, etc.)   |
| <input checked="" type="checkbox"/> Medical            | <input checked="" 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 checked="" type="checkbox"/> Adhesives       | <input type="checkbox"/> Coatings                   | <input checked="" type="checkbox"/> Greases      | <input type="checkbox"/> Mold releases/ | <input checked="" type="checkbox"/> Rust/Scale |
| <input type="checkbox"/> Buffing/polishing          | <input checked="" type="checkbox"/> Cutting/tapping | <input type="checkbox"/> Inks                    | <input type="checkbox"/> Silicones      | <input checked="" type="checkbox"/> Waxes      |
| <input type="checkbox"/> compounds                  | <input type="checkbox"/> fluids                     | <input checked="" type="checkbox"/> Lubricating/ | <input type="checkbox"/> Paints         | <input checked="" type="checkbox"/> Oil        |
| <input checked="" type="checkbox"/> Carbon deposits | <input type="checkbox"/> Fluxes                     | <input type="checkbox"/> lapping oils            | <input type="checkbox"/> Resins/Rosins  | <input type="checkbox"/> Other: _____          |

5. Substrate Compatibility (Check all that apply)

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

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

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

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

Recommended Temperatures: Room Temp - 180 Deg. F (range) \_\_\_\_\_

8. Important Physical and Chemical Properties:

Maximum theoretical VOC content: 0.5% (Net product)

GWP: \_\_\_\_\_ Surface Tension: \_\_\_\_\_ pH 9.5 Density: 1.175 @ 25°C  
ODP: \_\_\_\_\_ Kb value: \_\_\_\_\_ HMIS: 1 0 0 B Other: \_\_\_\_\_

9. Cost per pound/gallon: Smallest-unit price: liters Large-volume price: drums US\$ *See price list*

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

*see brochure*