



# TURI SURFACE CLEANING LABORATORY

## CLEANING CHEMICAL QUESTIONNAIRE

See letter for submission instructions.

*CR*  
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 Director

IONOX FLR

Generic Chemical Family: Alcohol

Meets Specified Standard(s): ASTM: YES Mil Spec: YES FDA: NO Other: \_\_\_\_\_

Primary Cleaner Classification (Check only one):

- |   |  |  |                                       |
|---|--|--|---------------------------------------|
| <input type="checkbox"/> Acidic Aqueous   | <input checked="" 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/<br>Microbial | <input type="checkbox"/> HCFC         |
| <input type="checkbox"/> Alkaline Aqueous | <input type="checkbox"/> Petroleum distillate    | <input type="checkbox"/> Blasting                | <input type="checkbox"/> Alcohol      |
| <input type="checkbox"/> Caustic          | <input type="checkbox"/> Organic                 |  | <input type="checkbox"/> Other: _____ |

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

- |   |  |  |
|---|--|--|
| <b>Cleaner Containing:</b>                            | <b>At Least Some Water ( _____ %)</b>  | <b>OR No/Minimal Water</b>   |
| <input type="checkbox"/> Builder: _____               | <input type="checkbox"/> Water conditioner/Sequestering/<br>Chelating agent: _____ | <input type="checkbox"/> Supercritical fluid: _____                  |
| <input checked="" type="checkbox"/> Surfactant: _____ | <input checked="" type="checkbox"/> Corrosion inhibitor/Rust<br>prohibitor: _____  | <input type="checkbox"/> Blasting medium: _____                      |
| <input type="checkbox"/> Emulsifier: _____            | <input type="checkbox"/> Anti-microbial: _____                                     | <input checked="" type="checkbox"/> Other: <u>NON-LINEAR ALCOHOL</u> |
| <input type="checkbox"/> Saponifier: _____            |  |  |
| <input type="checkbox"/> Other: _____                 |  |  |
| <input type="checkbox"/> Rinse aid/Suicare: _____     |  |  |

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

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

5. Substrate Compatibility (Check all that apply)

- |  |  |  |   |  |
|--|--|--|---|--|
| <input checked="" type="checkbox"/> Aluminum     | <input checked="" type="checkbox"/> Carbon steel     | <input checked="" type="checkbox"/> Glass/quartz                           | <input checked="" type="checkbox"/> Rubber          | <input checked="" type="checkbox"/> Nickel |
| <input type="checkbox"/> Alloys (Specify): _____ | <input checked="" type="checkbox"/> Ceramics         | <input checked="" type="checkbox"/> Gold                                   | <input checked="" type="checkbox"/> Stainless steel | <input checked="" type="checkbox"/> Tin    |
| <input checked="" type="checkbox"/> _____        | <input checked="" type="checkbox"/> Copper           | <input checked="" type="checkbox"/> Plastic (Specify): <u>Polyethylene</u> | <input checked="" type="checkbox"/> Steel           | <input type="checkbox"/> Other: _____      |
| <input checked="" type="checkbox"/> Brass        | <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 type="checkbox"/> Mechanical Agitation   | <input type="checkbox"/> Low Pressure Spray _____ psi-range  |
| <input type="checkbox"/> Vapor Degreasing          | <input checked="" type="checkbox"/> Ultrasonics | <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"/> Immersion/Soak | <input type="checkbox"/> Supercritical Extract  |  |

7. Recommended Concentrations: 100 % Percent Volume (range)

Recommended Temperatures: 120 - 160 °F Deg. F (range)

8. Important Physical and Chemical Properties:

Maximum theoretical VOC content: <u>1050 g/Liter</u>	Surface Tension: <u>22-32 dyne/cm</u>	Density: <u>1.05</u>
GWP: _____	Kb value: _____	Other: _____
ODP: <u>NONE</u>		

Cost per pound/gallon: Smallest-unit price: \$ 61.80 Large-volume price: \$ 35.80 **US\$**

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