



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)

A2

1. Product/Trade Name (Please use a **separate** questionnaire for each cleaning chemical you want listed in the Directory)

Liqui-NOX

Generic Chemical Family: _____

Meets Specified Standard(s): ASTM: _____ Mil Spec: _____ FDA: ☒ Other: USDA

Primary Cleaner Classification (Check only one):

- | | | | |
|--|---|---|---------------------------------------|
| ☐ Acidic Aqueous | ☐ Semi-Aqueous | ☐ Powder detergent | ☐ Extracting |
| ☐ Neutral Aqueous | ☐ Terpene | ☐ Enzymatic/ | ☐ HCFC |
| ☒ Alkaline Aqueous | ☐ Petroleum distillate | ☐ Microbial | ☐ Alcohol |
| ☐ Caustic | ☐ Organic | ☐ Blasting | ☐ Other: _____ |

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

Cleaner Containing: **At Least Some Water (n/a %)** **OR No/Minimal Water**

☐ Builder: <u>n/a</u>	☐ Water conditioner/Sequestering/	☐ Supercritical fluid: <u>n/a</u>
☐ Surfactant: <u>LAS</u>	Chelating agent: <u>n/a</u>	
☐ Emulsifier: <u>n/a</u>	☐ Corrosion inhibitor/Rust	☐ Blasting medium: <u>n/a</u>
☐ Saponifier: <u>n/a</u>	prohibitor: <u>n/a</u>	
☐ Other: _____	☐ Anti-microbial: <u>n/a</u>	☐ Other: _____
☐ Rinse aid/Silicate: _____		

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

- | | | | |
|--|---|---|---|
| ☒ Aerospace/Military | ☒ Metal Finishing | ☒ PCBs | ☒ Semiconductors |
| ☒ Cleanrooms | ☒ Metal Fabrication | ☒ Plastics | ☒ General Cleaning (floors, etc.) |
| ☒ Basic Electronics | ☒ Optics | ☒ Precision Instruments | ☒ Maint./Repair (engines, etc.) |
| ☒ Medical | ☒ Painting | ☒ Printing | ☐ Other: _____ |

4. Contaminant Removal (Check all that apply & specify, if possible)

- | | | | | |
|---|---|--|--|---|
| ☒ Adhesives | ☒ Coatings | ☒ Greases | ☒ Mold releases/ | ☐ Rust/Scale |
| ☒ Buffing/polishing | ☒ Cutting/tapping | ☒ Inks | ☒ Silicones | ☒ Waxes |
| ☒ compounds | ☒ fluids | ☒ Lubricating/ | ☒ Paints | ☒ Oil |
| ☒ Carbon deposits | ☒ Fluxes | ☒ lapping oils | ☒ Resins/Rosins | ☐ Other: _____ |

5. Substrate Compatibility (Check all that apply)

- | | | | | |
|---|--|--|---|--|
| ☒ Aluminum | ☒ Carbon steel | ☒ Glass/quartz | ☒ Rubber | ☒ Nickel |
| ☒ Alloys (Specify): | ☒ Ceramics | ☒ Gold | ☒ Stainless steel | ☒ Tin |
| ☒ Brass | ☒ Copper | ☒ Plastic (Specify): | ☒ Steel | ☒ Other: _____ |
| | ☒ Galvanized steel | ☒ Sterling/silver | | |

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

- | | | | |
|--|---|--|-----------|
| ☐ Cold Solvent | ☐ Mechanical Agitation | ☐ Low Pressure Spray | psi-range |
| ☐ Vapor Degreasing | ☒ Ultrasonics | ☐ High Pressure Spray | psi-range |
| ☒ Manual Wipe | ☐ Media Blasting | ☐ Other: _____ | |
| ☒ Immersion/Soak | ☐ Supercritical Extract | | |

7. Recommended Concentrations: 10% Percent Volume (range) _____

Recommended Temperatures: varies Deg. F (range) _____

8. Important Physical and Chemical Properties:

Maximum theoretical VOC content: 0

GWP: 0

ODP: 0

Surface Tension: 32

Kb value: n/a

pH 8.5 Density: 1.07

HMIS: 0 0 0 Other: _____