



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)
Micro-90 Concentrated Cleaning Solution Generic Chemical Family: Aqueous Cleaner

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

Primary Cleaner Classification (Check only one):

- | | | | |
|---|---|---|---------------------------------------|
| ☒ Acidic Aqueous | ☐ Semi-Aqueous | ☐ Powder detergent | ☐ Extracting |
| ☐ Neutral Aqueous | ☐ Terpene | ☐ Enzymatic/ | ☐ HCFC |
| ☒ Alkaline Aqueous - mild | ☐ 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 (_____ %) OR No/Minimal Water

- | | | |
|--|--|---|
| ☐ Builder: _____ | ☐ Water conditioner/Sequestering/ | ☐ Supercritical fluid: _____ |
| ☒ Surfactant: <u>Mixture</u> | ☐ Chelating agent: _____ | |
| ☐ Emulsifier: _____ | ☐ Corrosion inhibitor/Rust | ☐ Blasting medium: _____ |
| ☐ Saponifier: _____ | ☐ prohiitor: _____ | |
| ☐ Other: _____ | ☐ Anti-microbial: _____ | ☒ Other: <u>Water-based</u> |
| ☐ 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 | Example: Coatings <u>Conformal</u> |
| ☒ Buffing/polishing compounds | ☒ Cutting/tapping fluids | ☒ Inks | ☐ Mold releases/ ☒ Rust/Scale |
| ☒ Carbon deposits | ☒ Fluxes | ☐ Lubricating/lapping oils | Silicones ☒ Waxes |
| | | | ☐ Paints ☐ Oil |
| | | | ☐ Resins/Rosins ☐ Other: _____ |

5. Substrate Compatibility (Check all that apply)

- | | | | | |
|--|--|---|---|--|
| ☐ Aluminum | ☒ Carbon steel | ☒ Glass/quartz | ☒ Rubber | ☒ Nickel |
| ☐ Alloys (Specify): | ☒ Ceramics | ☒ Gold | ☒ Stainless steel | ☒ Tin |
| | ☒ Copper | ☒ Plastic (Specify): <u>ALL</u> | ☒ Steel | ☐ Other: _____ |
| ☒ Brass | ☒ 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: 1 - 2% w/v Percent Volume (range) _____

Recommended Temperatures: RT - 150°F Deg. F (range) _____

8. Important Physical and Chemical Properties:

Maximum theoretical VOC content: 0.5% (net product)

GWP: _____

Surface Tension: _____

pH 9.5 Density: 9.35# / gal.

ODP: _____

Kb value: _____

HMIS: 1 0 0 Other: _____

9. Cost per pound/gallon: Smallest-unit price: 16 gallon
\$31.15 Large-volume price: 520 lb (55 gal) US\$ \$ 874.50
10. Additional pertinent information not found elsewhere on this form or MSDS:
No flash point, Non-toxic, non-irritating.
See attached brochure & price list