



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)
Multi-Kleen 1568

Meets Specified Standard(s): ASTM: _____ Mil Spec: _____ Generic Chemical Family: Amine based
FDA: _____ Other: _____

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 (70 %) OR No/Minimal Water

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

- | |
|---------------------------------------|
| ☐ Rust/Scale |
| ☐ Waxes |
| ☐ 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 <u>5-15</u> psi-range |
| ☐ Vapor Degreasing | ☒ Ultrasonics | ☐ High Pressure Spray _____ psi-range |
| ☐ Manual Wipe | ☐ Media Blasting | ☐ Other: _____ |
| ☒ Immersion/Soak | ☐ Supercritical Extract | |

7. Recommended Concentrations: 2-10 Percent Volume (range)

Recommended Temperatures: Ambient - 212 Deg. F (range)

8. Important Physical and Chemical Properties:

Maximum theoretical VOC content: _____

GWP: _____ Surface Tension: _____

ODP: _____ Kb value: _____

Density: 8.7 lbs/gal

Other: _____

Cost per pound/gallon: _____ Smallest-unit price: _____ Large-volume price: _____ US\$

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