



TURI SURACE 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):

HURRISAFE 9450

Generic Chemical Family: Aqueous Degreaser

Meets Specified Standard(s): ASTM: 483-583 Mil Spec: _____ FDA: _____ Other: CSD #1

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 60 %

OR No/Minimal Water

- | | |
|--|---|
| ☒ Builder: <u>21%</u> | ☒ Water conditioner/Sequestering/ |
| ☒ Surfactant: <u>2%</u> | Chelating agent: <u>2%</u> |
| ☒ Emulsifier: <u>10%</u> | ☒ Corrosion inhibitor/Rust |
| ☒ Saponifier: _____ | prohibitor: <u>2%</u> |
| ☐ Other: _____ | ☐ Anti-microbial: _____ |
| ☐ Rinse aid/Silicate: _____ | |

☐ Supercritical fluid:

☐ Blasting medium:

☐ Other: _____

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/Silicones |
| ☒ Carbon deposits | ☐ Fluxes | ☒ Lubricating/lapping oils | ☐ Paints |
| | | | ☐ Resins/Rosins |
| | | | ☐ Rust/Scale |
| | | | ☒ Waxes |
| | | | ☐ Other: _____ |

5. Substrate Compatibility (Check all that apply)

- | | | | | |
|--|--|---|---|---|
| ☒ Aluminum | ☒ Carbon steel | ☐ Glass/quartz | ☒ Rubber | ☐ Nickel |
| ☒ Alloys (Specify): <u>2024-T3</u> | ☒ Ceramics | ☒ Gold | ☒ Stainless steel | ☐ Tin |
| <u>7075-T6</u> | ☒ Copper | ☐ Plastic (Specify): _____ | ☒ Steel | ☐ Other: <u>TITANIUM</u> |
| ☒ Brass | ☒ Galvanized steel | | ☐ Sterling/silver | <u>MAGNESIUM</u> |

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: 25% (3:1) Percent Volume (range)

Recommended Temperatures: Ambient Deg. F (range)

8. Important Physical and Chemical Properties:

Maximum theoretical VOC content: 20 g/L @ 1:3 (water)

GWP: _____ Surface Tension: 32 dyne/cm

ODP: _____ Kb value: NA

Density: 0.62

Other: Vapor pressure at 20

9. Cost per pound/gallon: Smallest-unit price: \$ 2.22 / pd concentrate Large-volume price: 1.48 / pd ^{14.2 mm Hg} concentrate ^{US\$}

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

PCI of America