



TURI SURFACE SOLUTIONS LABORATORY
CLEANING PRODUCT QUESTIONNAIRE

Material Safety Data Sheet (MSDS) and Technical Data Sheet (TDS)

MUST Be Attached

Use a SEPARATE questionnaire for each product you want entered in database.

1. Vendor Name: BIONIQS LTD 2. Product/Trade Name Ionic Liquid; ABBE-109a

3. Major filed of cleaning (Check one): Parts [] Precision [] Janitorial/Facility []

4. Specified Standard(s): [] ASTM: [] [] Mil Specs: []
[] FDA: [] [] Other: []

5. Important Physical and Chemical Properties - Boxed items MUST be filled in for product to be in database:

VOC (g/l): [] NFPA rating: H [] F [] R [] Surface Tension: []
Global Warming Potential: [] HMIS rating: H [] F [] R [] Density: 0.84
Ozone Depletion Potential: [] pH: [] Kb value: []

6. Primary Cleaner Classification (Check only one):

- [] Acidic Aqueous [] Semi-Aqueous [] Powder detergent [] Extracting
[] Neutral Aqueous [] Terpene [] Enzymatic/ Microbial [] HCFC
[] Alkaline Aqueous [] Petroleum distillate [] Blasting [] Alcohol
[] Caustic [] Organic [] Other: []

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

Cleaner Containing: [] At Least Some Water [] % OR [] No Water

- [] Builder: [] Rinse aid/Silicate: [] Anti-microbial: []
[] Surfactant: [] Water conditioner/Sequestering/ [] Supercritical fluid: []
[] Emulsifier: [] Chelating agent: [] Blasting medium: []
[] Saponifier: [] Corrosion/Rust inhibitor: [] Other: []

8. Industrial Applications (Check all that applies, Circle Most Used)

- [] Aerospace [] Medical [] Optics [] Printing
[] Cleanrooms [] Metal Finishing [] Paint removal [] Semiconductors
[] Basic Electronics [] Metal Fabrication [] Plastics [] Other1: []
[] Janitorial Cleaning [] Military [] Precision Instruments [] Other2: []
[] Maintenance/Repair (engines, etc.) [] Printed Circuit Boards [] Other3: []

9. Contaminant Removal (Check all that applies)

- [x] Adhesives [x] Fluxes [x] Paints [x] Oil -cutting/tapping fluids or lubricants
[x] Buffing/polishing [x] Greases [x] Resins Silicones [] Waxes
[x] Carbon deposits [x] Inks [x] Rosins [] Other1: []
[x] Coatings [x] Mold releases [] Rust/Scale [] Other2: []

10. Substrate Compatibility (Check all that applies)

- [] Aluminum [] Glass [] Plastic [] Silver
[] Brass [] Gold [] Rubber [] Tin
[] Ceramics [] Fiberglass [] Stainless steel [] Titanium
[] Copper [] Nickel [] Steel - carbon, galvanized, etc [] Other1: []
[] Alloys (Specify): [] [] Other2: []

11. Equipment Compatibility (Check all that applies)

- [] Cold Solvent [] Media Blasting [] Ultrasonic
[] Immersion/Soak [] Spray Washer Low (psi-range []) [] Vapor Degreasing
[] Manual Wipe [] Spray Washer High (psi-range []) [] Other1: []
[] Mechanical Agitation [] Supercritical Extraction [] Other2: []

12. Recommended Concentrations: % Volume range: [] Temperatures: Deg. F range: []

13. Cost per pound/gallon: Smallest-unit price: [] US\$ Large-volume price: [] US\$

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

Full name: N,N-Dimethylbutylammonium (+/-)-2-hexyldecanoate