



TURI SURACE CLEANING LABORATORY CLEANING CHEMICAL QUESTIONNAIRE

See letter for submission instructions.

A3

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)

CLEANER 10

Generic Chemical Family: _____

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

Primary Cleaner Classification (Check only one):

- | | | | |
|--|---|---|---|
| <input type="checkbox"/> Acidic Aqueous | <input type="checkbox"/> Semi-Aqueous | <input type="checkbox"/> Powder detergent | <input type="checkbox"/> Extracting |
| <input type="checkbox"/> Neutral Aqueous | <input type="checkbox"/> Terpene | <input type="checkbox"/> Enzymatic/ | <input type="checkbox"/> HCFC |
| <input checked="" type="checkbox"/> Alkaline Aqueous | <input type="checkbox"/> Petroleum distillate | <input type="checkbox"/> Microbial | <input type="checkbox"/> Alcohol |
| <input type="checkbox"/> Caustic | <input type="checkbox"/> Organic | <input type="checkbox"/> Blasting | <input checked="" type="checkbox"/> Other: <u>NON-HAZARDOUS</u> |

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

Cleaner Containing: At Least Some Water (X %) OR No/Minimal Water

| | | |
|---|--|--|
| <input checked="" type="checkbox"/> Builder: _____ | <input type="checkbox"/> Water conditioner/Sequestering/ | <input type="checkbox"/> Supercritical fluid: |
| <input checked="" type="checkbox"/> Surfactant: _____ | Chelating agent: _____ | |
| <input checked="" type="checkbox"/> Emulsifier: _____ | <input checked="" type="checkbox"/> Corrosion inhibitor/Rust | <input type="checkbox"/> Blasting medium: _____ |
| <input type="checkbox"/> Saponifier: _____ | prohibitor: <u>(OPTIONAL)</u> | |
| <input type="checkbox"/> Other: _____ | <input type="checkbox"/> Anti-microbial: _____ | <input checked="" type="checkbox"/> Other: <u>LOWFOAMER (OPTIONAL)</u> |
| <input type="checkbox"/> Rinse aid/Silicate: _____ | | |

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

- | | | | |
|--|---|---|---|
| <input checked="" type="checkbox"/> Aerospace/Military | <input checked="" type="checkbox"/> Metal Finishing | <input type="checkbox"/> PCBs | <input type="checkbox"/> Semiconductors |
| <input type="checkbox"/> Cleanrooms | <input checked="" type="checkbox"/> Metal Fabrication | <input checked="" type="checkbox"/> Plastics | <input checked="" type="checkbox"/> General Cleaning (floors, etc.) |
| <input type="checkbox"/> Basic Electronics | <input checked="" type="checkbox"/> Optics | <input checked="" type="checkbox"/> Precision Instruments | <input checked="" type="checkbox"/> Maint./Repair (engines, etc.) |
| <input checked="" type="checkbox"/> Medical | <input checked="" type="checkbox"/> Painting | <input checked="" type="checkbox"/> Printing | <input type="checkbox"/> Other: _____ |

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

- | | | | |
|---|---|--|---|
| <input type="checkbox"/> Adhesives | <input type="checkbox"/> Coatings | <input checked="" type="checkbox"/> Greases | Example ■ Coatings <u>Conformal</u> |
| <input checked="" type="checkbox"/> Buffing/polishing | <input checked="" type="checkbox"/> Cutting/tapping | <input checked="" type="checkbox"/> Inks | <input type="checkbox"/> Mold releases/ |
| compounds | fluids | <input checked="" type="checkbox"/> Lubricating/ | Silicones |
| <input type="checkbox"/> Carbon deposits | <input type="checkbox"/> Fluxes | lapping oils | <input type="checkbox"/> Paints |
| | | | <input type="checkbox"/> Resins/Rosins |
| | | | <input type="checkbox"/> Rust/Scale |
| | | | <input type="checkbox"/> Waxes |
| | | | <input type="checkbox"/> Other: _____ |

5. Substrate Compatibility (Check all that apply)

- | | | | | |
|--|--|--|---|--|
| <input checked="" type="checkbox"/> Aluminum | <input checked="" type="checkbox"/> Carbon steel | <input checked="" type="checkbox"/> Glass/quartz | <input checked="" type="checkbox"/> Rubber | <input checked="" type="checkbox"/> Nickel |
| <input type="checkbox"/> Alloys (Specify): _____ | <input checked="" type="checkbox"/> Ceramics | <input checked="" type="checkbox"/> Gold | <input checked="" type="checkbox"/> Stainless steel | <input checked="" type="checkbox"/> Tin |
| | <input checked="" type="checkbox"/> Copper | <input checked="" type="checkbox"/> Plastic (Specify): _____ | <input checked="" type="checkbox"/> Steel | <input checked="" type="checkbox"/> Other: _____ |
| <input checked="" type="checkbox"/> Brass | <input checked="" type="checkbox"/> Galvanized steel | <u>ALL</u> | <input checked="" type="checkbox"/> Sterling/silver | <u>TITANIUM</u> |

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

- | | | |
|--|--|---|
| <input checked="" type="checkbox"/> Cold Solvent | <input checked="" type="checkbox"/> Mechanical Agitation | <input checked="" type="checkbox"/> Low Pressure Spray _____ psi-range |
| <input type="checkbox"/> Vapor Degreasing | <input checked="" type="checkbox"/> Ultrasonics | <input checked="" type="checkbox"/> High Pressure Spray _____ psi-range |
| <input checked="" type="checkbox"/> Manual Wipe | <input type="checkbox"/> Media Blasting | <input type="checkbox"/> Other: _____ |
| <input checked="" type="checkbox"/> Immersion/Soak | <input type="checkbox"/> Supercritical Extract | |

7. Recommended Concentrations: 5% To 100% Percent Volume (range)

Recommended Temperatures: To 160 Deg. F (range)

Important Physical and Chemical Properties:

Maximum theoretical VOC content: < 5%

GWP: _____ Surface Tension: _____ Density: _____

OP: _____ Kb value: _____ Other: _____

~~per~~/gallon: Smallest-unit price: \$ 11.20 Large-volume price: \$ 7.10 US\$

pertinent information not found elsewhere on this form or MSDS:

TESTED: LD50 > 5000g/kg ; NOT CHRONIC IRRITANT



**THE MASSACHUSETTS
TOXICS USE REDUCTION INSTITUTE**

**TECHNOLOGY TRANSFER CENTER
Solvent Alternatives Questionnaire**

The Technology Transfer Center sends product information to industries that are interested in toxics use reduction projects. Along with this questionnaire, please send us an information sheet on each of your products in an 8-1/2" x 11" format that we can photocopy and distribute. Send completed questionnaires to:

Vendor Survey
Toxics Use Reduction Institute
University of Massachusetts at Lowell
One University Avenue
Lowell, MA 01854

JAN 26 1994

Please duplicate this questionnaire and complete a separate copy for each product you would like included in our database.

Trade Name of Product CLEANER 10 10R1, 10LF
Company Name SKY PRODUCTS CO. WITH RUST INHIBITOR
110 GOODALE STREET
Address PEABODY, MA. 01960 LOW FODGING
PHONE (508) 535-4848
Telephone _____ Fax number FAX # (508) 535-4737
Contact person ALLEN CONN

1. What is the classification of your cleaning product?

- | | |
|---|---|
| <input type="checkbox"/> Saponified Aqueous | <input type="checkbox"/> Alkaline Aqueous Solutions |
| <input type="checkbox"/> Semi-Aqueous | <input type="checkbox"/> Acidic Aqueous Solutions |
| <input type="checkbox"/> Mechanical Agitation | <input type="checkbox"/> Hot Water/Steam |
| <input type="checkbox"/> Terpenes | <input type="checkbox"/> Petroleum Distillates |

☒ Other (please specify): NON HAZARDOUS AQUEOUS CONCENTRATE

2. Give a Chemical/Generic description of your product.

DETERGENT SURFACTANT CONCENTRATE

3. Is there a recommended process or type of equipment associated with this product? If so, please describe it.

SUGGEST HEATED TANK WITH AGITATION
OR ULTRASONIC.

4. What contaminants is your product most effective in removing?
OIL, GREASES
5. Is there a separation process associated with using this cleaning solution?
YES
6. What concentration of cleaning solution is typically used?
100% to 5%
7. What is the soil loading capacity of your cleaner?
50%
8. Is your product designed to be recycled? If so, how is it recycled?
YES - SKIM, ULTRAFILTRATION, ETC
9. What is the cost of your cleaner?
~\$9 / GALLON
10. Is there a charge or credit for returning recycled product?
NO
11. Please include an MSDS and any other information that would assist potential customers in evaluating the applicability of your product to their needs (e.g., typical process flow diagram, wastestream constituents, special handling requirements).

Surface Cleaning Laboratory

University of Massachusetts • Lowell
One University Avenue
Lowell, Massachusetts 01854-2881
Telephone: (508) 934-3133
FAX: (508) 934-3050

CLEANING CHEMISTRY QUESTIONNAIRE

The Toxics Use Reduction Institute maintains a vendor database of alternative cleaning chemistries, cleaning equipment and recycling/treatment equipment. The information listed below has previously been provided by you. Please make any necessary corrections and include any information that has not been supplied. Blank questionnaires are also included for any additional products that you would like to add to the database.

Return responses to: Jay Jankauskas
Toxics Use Reduction Institute
University of Massachusetts-Lowell
One University Avenue
Lowell, MA 01854-2866

Trade Name of Product Cleaner 10, 10RI & 10LF
Company Name Sky Products Co.
Street Address 110 Goodale Street Peabody MA 01960
Contact Person/Title Allen Cohen Telephone 508-535-4545 Fax 508-535-4547

Provide a general description of your product and its uses.

The product is a detergent surfactant concentrate. Its ingredients are a trade secret. Cleaner 10 RI contains rust inhibitors and cleaner 10LF is low foaming.

Please check the classification that describes your product.

- | | |
|--|--|
| <input type="checkbox"/> Saponified Aqueous | <input type="checkbox"/> Petroleum Distillates |
| <input type="checkbox"/> Semi-Aqueous | <input type="checkbox"/> Organic |
| <input checked="" type="checkbox"/> Alkaline Aqueous | <input type="checkbox"/> HCFC |
| <input type="checkbox"/> Terpene | <input type="checkbox"/> Powder Detergent |
| <input type="checkbox"/> Acidic Aqueous | <input type="checkbox"/> Other (please specify) <u>Aqueous Cleaner</u> |
| <input type="checkbox"/> Caustic | |

Please check the appropriate industries in which your product is used.

- | | |
|---|---|
| <input checked="" type="checkbox"/> Metal Fabrication/Finishing | <input checked="" type="checkbox"/> Precision Instruments |
| <input type="checkbox"/> Electronics/PCB's | <input checked="" type="checkbox"/> Medical |
| <input type="checkbox"/> Electronics/Semiconductor | <input checked="" type="checkbox"/> General Cleaning/Maintenance |
| <input type="checkbox"/> General Electronics | <input checked="" type="checkbox"/> Chemical Industry (tank & piping boil outs) |
| <input checked="" type="checkbox"/> Military | <input type="checkbox"/> Other (please specify) _____ |
| <input checked="" type="checkbox"/> Printing | |

Please check the contaminants that your product is known to remove.

- | | | |
|---|---|------------------------------------|
| <input type="checkbox"/> Adhesives | <input checked="" type="checkbox"/> Inks | <input type="checkbox"/> Rust |
| <input checked="" type="checkbox"/> Buffing/polishing/lapping compounds | <input checked="" type="checkbox"/> Greases | <input type="checkbox"/> Scale |
| <input type="checkbox"/> Carbon Deposits | <input type="checkbox"/> Mold Release | <input type="checkbox"/> Silicones |
| <input type="checkbox"/> Conformal Coatings | <input checked="" type="checkbox"/> Oils | <input type="checkbox"/> Waxes |
| <input checked="" type="checkbox"/> Fluxes | <input type="checkbox"/> Paints/coatings | |
| <input type="checkbox"/> Other (please specify) _____ | | |



Please check the materials with which your product is compatible.

- | | |
|--|--|
| <input type="checkbox"/> Electronics | <input checked="" type="checkbox"/> Precious Metals (Gold, Silver) |
| <input checked="" type="checkbox"/> Ferrous Metals | <input checked="" type="checkbox"/> Copper and Brass |
| <input checked="" type="checkbox"/> Plastics | <input checked="" type="checkbox"/> Aluminum and Aluminum Alloys |
| <input checked="" type="checkbox"/> Rubber | |

Please check the following cleaning processes with which your product is compatible.

- | | |
|---|---|
| <input checked="" type="checkbox"/> High Pressure Spray | <input checked="" type="checkbox"/> Steam Cleaning |
| <input checked="" type="checkbox"/> Low Pressure Spray | <input checked="" type="checkbox"/> Cold Solvent Cleaning |
| <input checked="" type="checkbox"/> Immersion | <input type="checkbox"/> Vapor Degreasing |
| <input checked="" type="checkbox"/> Ultrasonics | |

Is your product designed to emulsify, dissolve or displace contaminants? (circle one)

If water dilutable, what is the recommended concentration range that your product may be used at?

From CONCENTRATED UP TO 50:1

What is the recommended temperature range that your product may be used at?

UP TO 165°F

Check off the following that your chemistry contains.

- | | |
|--|--|
| <input type="checkbox"/> Rinse Aids | <input checked="" type="checkbox"/> Anti-foam Agents |
| <input type="checkbox"/> Silicates | <input checked="" type="checkbox"/> Corrosion Inhibitors |
| <input type="checkbox"/> Sequestering Agents | <input type="checkbox"/> Caustic |

What is the average price of your product per gallon or lb? \$9.00/gal

Does your product meet any cleaning standards (ASTM, military or aircraft specs, FDA approval, etc.). If so please list.

USDA Accepted (A-4)

Physical Properties

| | |
|-----------------------------------|--|
| Percent Volatile: _____ | Maximum Theoretical VOC Content: _____ |
| Flash Point: <u>None</u> | HMS Ratings: |
| Vapor Pressure: <u>17.3 mm Hg</u> | Health: <u>0</u> |
| pH of Concentrate: <u>10.5</u> | Flammability: <u>0</u> |
| Surface Tension: _____ | Reactivity: <u>0</u> |