

THE MASSACHUSETTS
TOXICS USE REDUCTION INSTITUTE

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 Tub Mate Detergent

Company Name Hotsy Equipment Co. sales + service CTAS for mass - Barron Equip. Co.

Street Address 67 Sprague St. # 10 Boston MA 02136

Contact Person/Title Joe Barron / General Manager Telephone 800-364-5950 Fax 617-364-8694

Provide a general description of your product and it's uses.

Alkaline detergent containing Sodium Metasilicate and Ethylene Glycol Monobutyl Ether.

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) _____ |
| <input type="checkbox"/> Caustic | |

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

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

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

- | | | |
|---|---|---|
| <input checked="" 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 checked="" type="checkbox"/> Carbon Deposits | <input type="checkbox"/> Mold Release | <input checked="" type="checkbox"/> Silicones |
| <input type="checkbox"/> Conformal Coatings | <input checked="" type="checkbox"/> Oils | <input checked="" type="checkbox"/> Waxes |
| <input 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 checked="" 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 type="checkbox"/> Cold Solvent Cleaning |
| <input checked="" type="checkbox"/> Immersion | <input type="checkbox"/> Vapor Degreasing |
| <input 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?
.5 oz/gal

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

140°

Check off the following that your chemistry contains.

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

What is the average price of your product per gallon or lb? \$3.00/lb

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

Physical Properties

Percent Volatile: _____

Maximum Theoretical VOC Content: _____

Flash Point: None

HMIS Ratings:

Health: _____

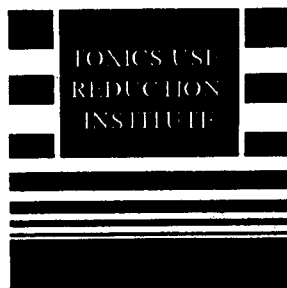
Vapor Pressure: N/A

Flammability: _____

pH of Concentrate: 12.7 @ 5%

Reactivity: _____

Surface Tension: _____



**THE MASSACHUSETTS
TOXICS USE REDUCTION INSTITUTE**
Solvent/Cleaning Chemistry Questionnaire

University of Massachusetts Lowell
One University Avenue
Lowell, MA 01854
Telephone: (508) 934-3275
FAX: (508) 934-3050

The Toxics Use Reduction Institute maintains a vendor database of alternative cleaning chemistries and equipment. Information from this database is published and provided to companies who are searching for safer cleaning alternatives. Please provide the following for each product or product line:

1. Completed Questionnaire 2. MSDS 3. Printed literature (optional).

Return response to:

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

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

Trade Name of Product Tub mate Detergent

Company Name Hotsy Equipment Co. ☒ Manufacturer ☒ Distributor

Address 67 Sprague st. Boston Ma. 02136

Telephone 600 544 7790 Contact Person Joe Barron

1. Product Manufacturer Hotsy Where is Product manufactured Iowa, USA
(if different from above) (state / country)

2. Please check the classification that most closely describes your product.

- | | |
|--|---|
| <input type="checkbox"/> Saponified aqueous | <input type="checkbox"/> Acid aqueous solutions |
| <input type="checkbox"/> Semi-aqueous | <input type="checkbox"/> Hot water/steam |
| <input checked="" type="checkbox"/> Alkaline aqueous | <input type="checkbox"/> Petroleum distillates |
| <input type="checkbox"/> Terpenes | <input type="checkbox"/> Other (please specify) _____ |

3. Give a chemical / generic description of your product.

Alkaline Detergent

4. Which contaminants is your product most effective in removing?

oil, grease, slag, carbon, dirt

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

Spray wash

6. Is there a separation process associated with maintaining this cleaning solution? Please describe.

no

7. What concentration of cleaning solution is typically used?

1/2 oz per gallon

8. Is your product designed to be recycled? If so, how is it recycled?

yes, in washer

9. What is the typical cost of your cleaner?

\$3 per lb

10. Are there any constituents in your cleaner which are listed under SARA 313 or CERCLA?
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. a typical process flow diagram, waste stream constituents, special handling equipment).

11. Would you be interested in loaning equipment for testing purposes in TURI's Surface Cleaning laboratory? If yes, please contact Carole LeBlanc (508-934-3249) or Jay Jankauskas (508-934-3133).