Group Purchasing Organizations, state buyers and school systems often require product specifications to assure that they are receiving quality, high performance products.

Attached is the second set of specifications which correspond to specific disinfectant products. In some instances a model spec will not be issued for a specific product.

The following is the “N” Number Index and description for the respective products. There is a specific reference to the Reckitt Benckiser Professional product represented in each specification, this being the EPA Registration number. Although each of the other specs are met by the respective product, there is no mention of the qualifying products’ name.

<table>
<thead>
<tr>
<th>&quot;N&quot; NUMBER</th>
<th>TITLE</th>
<th>PRODUCT</th>
<th>EPA REG. #</th>
</tr>
</thead>
<tbody>
<tr>
<td>505</td>
<td>Ethanol/Quaternary Spray Disinfectant</td>
<td>Professional AMPHYL® II Disinfectant-Deodorant Spray</td>
<td>777-72-675</td>
</tr>
<tr>
<td>519</td>
<td>Quaternary Disinfectant Sanitizer Algicide</td>
<td>Professional LYSOL® Brand No-Rinse Sanitizer</td>
<td>675-30</td>
</tr>
<tr>
<td>520</td>
<td>Quaternary Cleaner Disinfectant Sanitizer</td>
<td>Professional LYSOL® Brand Antibacterial All Purpose Cleaner</td>
<td>675-36</td>
</tr>
<tr>
<td>522</td>
<td>Foaming Quaternary Disinfectant Cleaner</td>
<td>Professional LYSOL® Brand Disinfectant Foam Cleaner for Multiple Surfaces</td>
<td>777-71-675</td>
</tr>
<tr>
<td>523</td>
<td>Phenolic Hospital Bulk</td>
<td>Professional AMPHYL® Hospital Bulk Disinfectant</td>
<td>675-19</td>
</tr>
<tr>
<td>510</td>
<td>Toilet Bowl Cleaner Disinfectant</td>
<td>Professional LYSOL® Brand Liquid Disinfectant Toilet Bowl Cleaner</td>
<td>777-29-675</td>
</tr>
<tr>
<td>524</td>
<td>Pine Oil/Quaternary Cleaner Disinfectant</td>
<td>Professional LYSOL® Brand Pine Action</td>
<td>777-75-675</td>
</tr>
<tr>
<td>529</td>
<td>High Acid Toilet Disinfectant</td>
<td>Professional VANI-SOL® High Acid Bowl Cleanse</td>
<td></td>
</tr>
</tbody>
</table>
SPECIFICATION

Ethanol/Quaternary Spray Disinfectant

When requiring a specific product type to meet certain end-user needs, standard specifications will assure the user of obtaining a product that consistently provides economy, efficacy and quality.

Scope


Specifications

1. This product shall be a registered hospital disinfectant with the Federal Environmental Protection Agency under 777-72-675.
2. Hospital disinfection shall be achieved through the combination of ethanol and Alkyl (50% C14, 40% C12, 10% C16) dimethyl benzyl ammonium saccharinate totaling over 79% actives to achieve hospital disinfection according to EPA registration requirements. Test culture with 5% blood serum.
3. Product shall contain additional corrosion inhibitors, essential oils and stabilizers as deemed necessary by the manufacturer to provide superior surface disinfection and deodorization based on the extent of EPA registered claims.
4. Product shall provide deodorization through a dual action, by elimination of odor causing bacteria through disinfection and sufficient essential oils to assist in malodor counteraction.
5. Product shall exhibit no deleterious effects to typical environmental surfaces such as plastic laminate, metal surfaces, carpet fiber and most plastics. Surface incompatibilities shall be noted on the product label.
6. The formula propellant shall consist of carbon dioxide at a level of less than 5% of the finished aerosol. The product shall contain no chlorofluorocarbons or other ozone depleting substances.
7. The aerosol container shall be constructed from an average of 25% recycled steel (10% post-consumer).
8. Product shall be toxicologically characterized pursuant to studies conducted according to the Federal Hazardous Substances Act or Federal Insecticide, Fungicide and Rodenticide Act (as appropriate) and labeled to reflect any and all hazards to which a user may be exposed in connection with the products handling and use.
12. The product in the original container shall be stable within normal storage temperatures (32°F-120°F) for a period of two years.
13. Product shall contain none of the following materials: formaldehyde, glutaraldehyde, soap, abrasives, phenols, iodine, phosphates, sodium hydroxide, or acids.
14. The EPA registered product shall contain significant germicidal efficacy claims beyond standard hospital claim data. Claim data to include several antibiotic resistant bacteria as well as exhibiting virucidal activity against such viruses as HIV-1 in the presence of 50% whole human blood, Poliovirus Type 1, and Hepatitis A virus. Complete efficacy data to be provided upon request.
15. The product directly from the aerosol can shall exhibit a pH of 7.0.
16. Each product container shall be marked indicating the exact date of production and/or filling as part of its Program of Quality Assurance.
17. Manufacturer will certify that each batch of product produced is Quality Control checked and evaluated to all manufacturing specifications. Certificate of Analysis will be issued by date code if requested.
SPECIFICATION

Quaternary Disinfectant Sanitizer Algicide

When requiring a specific product type to meet certain end-user needs, standard specifications will assure the user of obtaining a product that consistently provides economy, efficacy and quality.

Scope

A concentrated water-based quaternary ammonium disinfectant for use at dilutions ranging from 1:128 (1 oz./gallon) for disinfection to 1:512 (oz./gallon) for food service sanitization.

Specifications

1. This product shall be a registered disinfectant with the Federal Environmental Protection Agency under 675-30 for disinfesting and sanitizing.
2. Product shall consist of quaternary ammonium actives, alcohol and water only.
3. Disinfection shall be achieved through the use of Alkyl dimethyl benzyl ammonium chlorides in appropriate concentrations to achieve hospital disinfection according to EPA registration requirements when diluted 1:128 with water. Product shall provide a minimum of 775ppm active quaternary at a dilution of 1:128.
4. Product shall contain recommendations for use as an algicide for swimming pools and industrial non-potable water supplies. Label shall contain specific instructions for appropriate use.
5. Product shall provide deodorization via disinfection/elimination of odor causing bacteria.
6. Product shall perform as a hospital disinfectant at a dilution of 1oz. product per 1 gal. of ambient temperature water.
7. Product shall perform as a food service sanitizer at a dilution of ¼ oz. product per 1 gallon of ambient temperature water.
8. Product shall be formulated for automatic dilution through a venturi-type dispensing unit as recommended by the manufacturer. Product must fit appropriate dispensers without the need for special packaging.
9. Product shall exhibit no flash point when tested up to 200°F according to the tag closed cup method.
10. Product shall exhibit no deleterious effects to surfaces such as vinyl composition flooring, plastic surfaces, stainless steel and aluminum
11. Product shall be toxicologically characterized pursuant to studies conducted according to the Federal Hazardous Substances Act or Federal Insecticide, Fungicide and Rodenticide Act (as appropriate) and labeled to reflect any and all hazards to which a user may be exposed in connection with the products handling and use.
12. The product material safety data sheet will provide all appropriate information in compliance with OSHA 29 CFR 1910.1200 – Hazard Communication.
13. The product in the original container shall be stable within normal storage temperatures (32°F-120°F) for a period of two years.
14. Product shall contain none of the following materials: formaldehyde, glutaraldehyde, soap, abrasives, phenols, iodine, phosphates, sodium hydroxide, or acids.
15. Manufacturer shall have pre-printed secondary container labels identifying the properly diluted disinfectant/sanitizer available for application by the user. These labels shall contain precautionary language based on appropriate irritancy evaluations of the diluted product.
16. Each product container shall be marked indicating the exact date of production and/or filling as part of its Program of Quality Assurance.
17. Manufacturer will certify that each batch of product produced is Quality Control checked and evaluated to all manufacturing specifications. Certificate of Analysis will be issued by date code if requested.
18. Product shall have a pH value range at a 1:128 dilution with water of 7.5 – 8.0.
19. All product packaging shall contain the three-sided Society of Plastics Industry, Inc. identification code #2 for recycling. This is to facilitate container recycling in areas where such a program exists.
20. If packaged in five-gallon pails, packaging will contain an appropriate infant drowning warning label written in both English and Spanish. This labeling shall be printed in contrasting colors and be a minimum of 2 ½” X 7”.
21. If appropriate, the product container shall be molded with 25% post consumer high-density polyethylene plastic.
22. Product shall provide evidence of germicidal efficacy beyond the standard three organisms required by the EPA for hospital disinfection. Claim data including bactericidal, fungicidal, and viricidal efficacy to be supplied by the manufacturer.
23. Product shall be registered by the U.S. Department of Agriculture and/or NSF for use in processing plants operating under USDA inspection and grading programs under category D2 and Q1.
24. Product shall fulfill the criteria of appendix F of the Grade “A” pasteurized milk ordinance 1965 recommendations of U.S. Public Health Service in waters up to 500ppm hardness.
SPECIFICATION

Quaternary Cleaner Disinfectant Sanitizer

When requiring a specific product type to meet certain end-user needs, standard specifications will assure the user of obtaining a product that consistently provides economy, efficacy and quality.

Scope

A concentrated water-based blend of detergents, disinfectants and stabilizers for use at a 1:64 (2oz/gallon) dilution with water.

Specifications

1. This product shall be a registered disinfectant with the Federal Environmental Protection Agency under 675-36 for cleaning, disinfecting and sanitizing.
2. Product shall consist of nonionic synthetic detergents and shall contain no soap.
3. Hospital disinfection shall be achieved through the use of Alkyl dimethyl benzyl ammonium chlorides and Didecyl dimethyl ammonium chloride in appropriate concentrations to achieve hospital disinfection according to EPA registration requirements when diluted 1:64 with water. Product shall provide a minimum of 450ppm active quaternary at a dilution of 1:64.
4. Product shall contain additional sequestering agents, detergents, builders and chelating agents as deemed necessary by the manufacturer to provide a combination of detergency and disinfection.
5. Product shall provide deodorization via disinfection/elimination of odor causing bacteria.
6. Product shall perform as a cleaner and hospital disinfectant at a dilution of 2oz product per 1 gal. of ambient temperature water.
7. Product shall perform as a cleaner/sanitizer at a dilution of 1oz. product per 1 gallon of ambient temperature water.
8. Product shall be formulated for automatic dilution through a venturi-type dispensing unit as recommended by the manufacturer. Product must fit appropriate dispensers without the need for special packaging.
9. Product shall exhibit no flash point when tested up to 200°F according to the tag closed cup method.
10. Product shall exhibit no deleterious effects to surfaces such as vinyl composition, asphalt, vinyl asbestos and finished floor surfaces.
11. Product shall be toxicologically characterized pursuant to studies conducted according to the Federal Hazardous Substances Act or Federal Insecticide, Fungicide and Rodenticide Act (as appropriate) and labeled to reflect any and all hazards to which a user may be exposed in connection with the products handling and use.
12. The product material safety data sheet will provide all appropriate information in compliance with OSHA 29 CFR 1910.1200 – Hazard Communication.
13. The product in the original container shall be stable within normal storage temperatures (32°F-120°F) for a period of two years.
14. Product shall contain none of the following materials: formaldehyde, glutaraldehyde, soap, abrasives, phenols, iodine, phosphates, sodium hydroxide, or acids.
15. Manufacturer shall have pre-printed secondary container labels identifying the properly diluted cleaner/disinfectant available for application by the user. These labels shall contain precautionary language based on appropriate irritancy evaluations of the diluted product.
16. Each product container shall be marked indicating the exact date of production and/or filling as part of its Program of Quality Assurance.
17. Manufacturer will certify that each batch of product produced is Quality Control checked and evaluated to all manufacturing specifications. Certificate of Analysis will be issued by date code if requested.
18. Product shall have a pH value range at a 1:64 dilution with water of 10.2-10.6.
19. All product packaging shall contain the three-sided Society of Plastics Industry, Inc. identification code #2 for recycling. This is to facilitate container recycling in areas where such a program exists. If packaged in five-gallon pails, packaging will contain an appropriate infant drowning warning label written in both English and Spanish. This labeling shall be printed in contrasting colors and be a minimum of 2 3/4” X 7”.
20. Product shall provide evidence of germicidal efficacy beyond the standard three organisms required by the EPA for hospital disinfection. Claim data including bactericidal, fungicidal, and viricidal efficacy to be supplied by the manufacturer.
21. Product shall be registered by the U.S. Department of Agriculture and/or NSF for use in processing plants operating under USDA inspection and grading programs under category D1.
SPECIFICATION

Foaming Quaternary Disinfectant Cleaner

When requiring a specific product type to meet certain end-user needs, standard specifications will assure the user of obtaining a product that consistently provides economy, efficacy and quality.

Scope

A ready-to-use aerosol foaming disinfectant cleaner deodorizer for washroom and other surfaces. Packaged in 24oz. net weight aerosol containers.

Specifications

1. This product shall be a registered hospital disinfectant with the Federal Environmental Protection Agency under 777-71-675.
2. Hospital disinfection shall be achieved through the use of three quaternary ammonium chlorides to achieve hospital disinfection according to EPA registration requirements when diluted 1:256 with water. Test culture with 5% blood serum.
3. Product shall contain additional nonionic surfactants, glycol ether solvent, essential oils and stabilizers as deemed necessary by the manufacturer to provide superior surface cleaning, disinfection and deodorization.
4. Product shall provide deodorization through a dual action, by elimination of odor causing bacteria through disinfection and sufficient essential oils to assist in malodor counteraction.
5. The product concentrate shall exhibit no flash point when tested up to 200°F according to the tag closed cup method.
6. Product shall exhibit no deleterious effects to typical environmental surfaces such as plastic laminate, metal surfaces, fiberglass and most plastics. Any surface incompatibilities or spot test recommendations shall be clearly noted on the product label.
7. The product shall be dispensed from the aerosol container in a thick clinging foam to increase vertical contact time.
8. The product shall be formulated to provide powerful cleaning to remove soap scum, body oils and grease from environmental surfaces.
9. The aerosol container shall be constructed from an average of 25%-recycled steel (10% post-consumer). The product shall contain no chlorofluorocarbons or other ozone depleting substances.
10. Product shall be toxicologically characterized pursuant to studies conducted according to the Federal Hazardous Substances Act or Federal Insecticide, Fungicide and Rodenticide Act (as appropriate) and labeled to reflect any and all hazards to which a user may be exposed in connection with the product handling and use.
12. The product in the original container shall be stable within normal storage temperatures (32°F-120°F) for a period of two years.
13. Product shall contain none of the following materials: formaldehyde, glutaraldehyde, soap, abrasives, phenols, iodine, phosphates, sodium hydroxide, or acids.
14. The EPA registered product shall provide germicidal efficacy claims beyond standard hospital claim data. Claim data to include fungicidal activity against athlete’s foot fungus. Complete efficacy data to be provided upon request.
15. The product directly from the aerosol can shall exhibit a pH range of 11.8–12.4.
16. Each product container shall be marked indicating the exact date of production and/or filling as part of its Program of Quality Assurance.
17. Manufacturer will certify that each batch of product produced is Quality Control checked and evaluated to all manufacturing specifications. Certificate of Analysis will be issued by date code if requested.
18. Product shall be registered by the U.S. Department of Agriculture and/or NSF for use in processing plants operating under USDA inspection and grading programs under category C2.
SPECIFICATION

Phenolic Hospital Bulk Disinfectant Cleaner

When requiring a specific product type to meet certain end-user needs, standard specifications will assure the user of obtaining a product that consistently provides economy, efficacy and quality.

Scope

A concentrated water-based blend of soap, disinfectants, and stabilizers for use at various dilutions dependent on the required task.

Specifications

1. This product shall be a registered hospital disinfectant with the Federal Environmental Protection Agency under 675-19.
2. Product shall consist of a coconut oil soap base to achieve cleaning and wetting properties.
3. Hospital disinfection shall be achieved through the use of o-Benzyl-p-chlorophenol and o-Phenylphenol in appropriate concentrations to achieve hospital disinfection according to EPA registration requirements.
4. Product shall contain additional sequestering agents, detergents, builders and chelating agents as deemed necessary by the manufacturer to provide a combination of detergency and disinfection when diluted in waters of varying levels of hardness.
5. Product shall provide by elimination of odor causing bacteria through disinfection.
6. Product shall perform as a cleaner and broad spectrum disinfectant at a dilution of 40 cc. product per 1 gal. of ambient temperature water. (1% solution)
7. Product shall perform as a cleaner and hospital disinfectant at a dilution of 80 cc product per 1 gallon of ambient temperature water (2% solution).
8. Product shall claim the ability to sanitize laundry, linens, blankets and diapers at a dilution of 8 oz. product per 17 gallons of water (1:272). Use recommendations shall appear on the product label.
9. Product shall be formulated for automatic dilution through a venturi type dispensing unit as recommended by the manufacturer. Product must fit appropriate dispensers without the need for special packaging.
10. Product shall exhibit no deleterious effects to surfaces such as vinyl composition, asphalt, vinyl asbestos and finished floor surfaces.
11. Product shall be toxicologically characterized pursuant to studies conducted according to the Federal Hazardous Substances Act or Federal Insecticide, Fungicide and Rodenticide Act (as appropriate) and labeled to reflect any and all hazards to which a user may be exposed in connection with the products handling and use.
12. The product material safety data sheet will provide all appropriate information in compliance with OSHA 29 CFR 1910.1200 – Hazard Communication.
14. The product in the original container shall be stable within normal storage temperatures (32°F-120°F) for a period of two years.
15. Product shall contain none of the following materials: formaldehyde, glutaraldehyde, abrasives, quaternary ammonium compounds, iodine, phosphates, sodium hydroxide, or acids.
16. Product shall exhibit no flash point when tested up to 200°F according to the tag closed cup method.
17. Manufacturer shall have pre-printed secondary container labels identifying the properly diluted cleaner/disinfectant available for application by the user. These labels shall contain precautionary language based on appropriate irritancy evaluations of the diluted product.
18. Each product container shall be marked indicating the exact date of production and/or filling as part of its Program of Quality Assurance.
19. Manufacturer will certify that each batch of product produced is Quality Control checked and evaluated to all manufacturing specifications. Certificate of Analysis will be issued by date code if requested.
20. Product shall have a pH value of 9.0 at a 1% dilution with water.
21. All product packaging shall contain the three-sided Society of Plastics Industry, Inc. identification code #2 for recycling. This is to facilitate container recycling in areas where such a program exists. If packaged in five-gallon pails, packaging will contain an appropriate infant drowning warning label written in both English and Spanish. This labeling shall be printed in contrasting colors and be a minimum of 2 3/4” X 7”.
22. Product shall provide evidence of germicidal efficacy beyond the standard three organisms required by the EPA for hospital disinfection. Claim data including bactericidal, fungicidal, and viricidal efficacy to be supplied by the manufacturer.
SPECIFICATION

Toilet Bowl Cleaner Disinfectant

When requiring a specific product type to meet certain end-user needs, standard specifications will assure the user of obtaining a product that consistently provides economy, efficacy and quality.

Scope

A blend of hydrogen chloride, surfactants, corrosion inhibitors and a quaternary active for cleaning and disinfecting vitreous china toilet bowls and urinals.

Specifications

1. This product shall be a registered disinfectant with the Federal Environmental Protection Agency under 777-81-675.
2. Product shall consist of 9.5% hydrochloric acid to achieve hospital disinfection according to EPA registration requirements. Test culture with 5% blood serum.
3. Product shall also contain additional surfactants, builders and corrosion inhibitors as deemed necessary by the manufacturer to provide a combination of detergency and hospital disinfection even when diluted 1:25 with water.
4. Product shall provide deodorization through a dual action, by elimination of odor causing bacteria and soils via disinfection and sufficient essential oils to assist in malodor counteraction.
5. Product shall perform as a toilet bowl and urinal cleaner and hospital disinfectant at a dilution of 1:25. This dilution rate assures complete disinfection even when added to units containing standing water.
6. Product shall be packaged in 32 oz. containers affixed with directional pour spout. The pour spout shall provide added storage and use safety by the use of a child resistant closure.
7. Product shall be formulated for use only in vitreous china toilets and urinals. Labeling shall state the product is for use in toilets and urinals ONLY.
8. The 9.5% level of hydrogen chloride shall provide quick and easy removal of hard water salts, rust and uric acid stains. Adequate corrosion inhibitors shall be included to allow for everyday use of the product.
9. Product shall be toxicologically characterized pursuant to studies conducted according to the Federal Hazardous Substances Act or Federal Insecticide, Fungicide and Rodenticide Act (as appropriate) and labeled to reflect any and all hazards to which a user may be exposed in connection with the products handling and use.
11. The product in the original container shall be stable within normal storage temperatures (32°F-120°F) for a period of two years.
12. Product shall contain none of the following materials: formaldehyde, glutaraldehyde, soap, abrasives, quaternary ammonium compounds, phenols, iodine, phosphates, or sodium hydroxide.
13. Each product container shall be marked indicating the exact date of production and/or filling as part of its Program of Quality Assurance.
14. Manufacturer will certify that each batch of product produced is Quality Control checked and evaluated to all manufacturing specifications. Certificate of Analysis will be issued by date code if requested.
15. Product shall have a pH value undiluted of less than 1.
16. All product packaging shall contain the three-sided Society of Plastics Industry, Inc. identification code #2 for recycling. This is to facilitate container recycling in areas where such a program exists. The container shall be molded using 25% post consumer resin.
17. Product shall provide evidence of germicidal efficacy beyond the standard three organisms required by the EPA for hospital disinfection. Claim data including bactericidal and virucidal efficacy to be supplied by the manufacturer.
18. Product shall contain appropriate thickeners to provide superior surface cling both above and below the water line of toilets and urinals.

This Bulletin continued on next page
SPECIFICATION

Pine Oil/Quaternary Cleaner Disinfectant

When requiring a specific product type to meet certain end-user needs, standard specifications will assure the user of obtaining a product that consistently provides economy, efficacy and quality.

Scope

A concentrated water-based blend of pine oil, detergents, disinfectants and stabilizers for use at a 1:64 (2oz/gallon) dilution with water.

Specifications

1. This product shall be a registered disinfectant with the Federal Environmental Protection Agency under 777-75-675 for cleaning, disinfecting and deodorization.
2. Product shall consist of pine oil, quaternary ammonium actives and synthetic detergents and shall contain no soap.
3. Hospital disinfection shall be achieved through the use of 9% minimum pine oil and N-Alkyl dimethyl benzyl ammonium chlorides, Dioctyl dimethyl ammonium chloride and Didecyl dimethyl ammonium chloride in appropriate concentrations to achieve hospital disinfection according to EPA registration requirements when diluted 1:64 with water. Test culture with 5% blood serum. Product shall provide a minimum of 200ppm active quaternary and 1400 ppm active pine oil at a dilution of 1:64.
4. Product shall contain additional sequestering agents, detergents, builders and chelating agents as deemed necessary by the manufacturer to provide a combination of detergency and disinfection.
5. Product shall provide deodorization through a dual action, by elimination of odor causing bacteria and soils via disinfection and sufficient pine oil and other essential oil to assist in malodor counteraction.
6. Product shall perform as a cleaner and hospital disinfectant at a dilution of 2oz. product per 1 gal. of ambient temperature water.
7. Product shall exhibit no deleterious effects to surfaces such as plastic, vinyl composition, asphalt, vinyl asbestos and finished floor surfaces, when used according to label directions.
8. Product shall be toxicologically characterized pursuant to studies conducted according to the Federal Hazardous Substances Act or Federal Insecticide, Fungicide and Rodenticide Act (as appropriate) and labeled to reflect any and all hazards to which a user may be exposed in connection with the products handling and use.
10. The product in the original container shall be stable within normal storage temperatures (32°F-120°F) for a period of two years.
11. Product shall contain none of the following materials: formaldehyde, glutaraldehyde, soap, abrasives, phenols, iodine, phosphates, sodium hydroxide, or free acid.
12. Manufacturer shall have pre-printed secondary container labels identifying the properly diluted cleaner/disinfectant available for application by the user. These labels shall contain precautionary language based on appropriate irritancy evaluations of the diluted product.
13. Each product container shall be marked indicating the exact date of production and/or filling as part of its Program of Quality Assurance.
14. Manufacturer will certify that each batch of product produced is Quality Control checked and evaluated to all manufacturing specifications. Certificate of Analysis will be issued by date code if requested.
15. Product shall have a pH value range at a 1:64 dilution with water of 6.5 – 7.5.
16. All product packaging shall contain the three-sided Society of Plastics Industry, Inc. identification code #2 for recycling. This is to facilitate container recycling in areas where such a program exists. If packaged in five-gallon pails, packaging will contain an appropriate infant drowning warning label written in both English and Spanish. This labeling shall be printed in contrasting colors and be a minimum of 2 3/4" X 7".
17. Product shall provide evidence of germicidal efficacy beyond the standard three organisms required by the EPA for hospital disinfection. Claim data including bactericidal, fungicidal, and viricidal efficacy to be supplied by the manufacturer.
SPECIFICATION

High Acid Toilet Bowl Cleaner

When requiring a specific product type to meet certain end-user needs, standard specifications will assure the user of obtaining a product that consistently provides economy, efficacy and quality.

Scope

A blend of hydrogen chloride, surfactants and corrosion inhibitors for heavy-duty cleaning of vitreous china toilet bowls and urinals.

Specifications

1. Product shall consist of 23.0% hydrochloric acid for heavy-duty cleaning of vitreous china toilet bowls and urinals.
2. Product shall also contain additional surfactants, builders and corrosion inhibitors as deemed necessary by the manufacturer to provide a combination of detergency and stain/rust removal.
3. Product shall provide deodorization by efficient removal of rust and uric acid stains that may harbor odor-producing soils.
4. Product shall perform as a toilet bowl and urinal cleaner designed to remove extreme hard water build-up and rust stains.
5. Product shall be packaged in 32 oz. containers affixed with directional pour spout. The pour spout shall provide added storage and use safety by the use of a child resistant closure.
6. Product shall be formulated for use only in vitreous china toilets and urinals. Labeling shall state the product is for use in toilets and urinals ONLY.
7. The 23.0% level of hydrogen chloride shall provide quick and easy removal of hard water salts, rust and uric acid stains. Adequate corrosion inhibitors shall be included to allow for everyday use of the product.
8. Product shall be toxicologically characterized pursuant to studies conducted according to the Federal Hazardous Substances Act or Federal Insecticide, Fungicide and Rodenticide Act (as appropriate) and labeled to reflect any and all hazards to which a user may be exposed in connection with the products handling and use.
10. The product in the original container shall be stable within normal storage temperatures (32°F-120°F) for a period of two years.
11. Product shall contain none of the following materials: formaldehyde, glutaraldehyde, soap, abrasives, phenols, iodine, phosphates, or sodium hydroxide.
12. Each product container shall be marked indicating the exact date of production and/or filling as part of its Program of Quality Assurance.
13. Manufacturer will certify that each batch of product produced is Quality Control checked and evaluated to all manufacturing specifications. Certificate of Analysis will be issued by date code if requested.
14. Product shall have a pH value undiluted of less than 1.
15. All product packaging shall contain the three-sided Society of Plastics Industry, Inc. identification code #2 for recycling. This is to facilitate container recycling in areas where such a program exists. The container shall be molded using 25% post consumer resin.
16. Product shall be registered by the U.S. Department of Agriculture and/or NSF for use in plants operating under USDA inspection and grading programs under category C2.