

**CATEGORY ONE: CLEANING COMPOUNDS & RELATED DISPENSERS
ITEM PURCHASE DESCRIPTIONS**

NSN: 4510-01-426-4187

DISPENSER, DEODORANT: National Service Industries, ZEP Mfg. Co. Division, Meter Mist 3000 Plus Automatic Dispensing System, Part Number 788801 aerosol dispenser, or equal, with the following characteristics:

Dispenser automatically controls odors and freshens air with three operation settings; day night, 24 hour, and a variable spray pattern.

Five to twenty-five minutes per cycle provides coverage without excessive overspray. Indicator light informs when unit is operating and aerosol needs to be replaced.

Shall be functionally compatible with ZEP Manufacturing Co. Meter Mist aerosol 7-ounce deodorant containers.

Unit of Issue – EA (Each)

NSN: 6810-00-174-6581

SODIUM HYDROXIDE, TECHNICAL: The product shall be anhydrous caustic soda with the following salient requirements and characteristics:

The product shall be suitable for washing, cleaning and scouring processes where a strong alkaline material is required. The product shall be furnished in air-tight containers in flake, bead or pellet form. The material shall meet the following requirements when sampled and tested in accordance with ASTM D501-03, Standard Test Methods of Sampling and Chemical Analysis of Alkaline Detergents.

Total alkalinity as Na ₂ O, Min, %	75.5
Sodium hydroxide (NaOH) Min, %	96
Carbonate as Na ₂ CO ₃ , Max, %	2

Caustic soda (anhydrous)
Form – flake, bead, or pellet

Copies of ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. Phone: 610-832-9585, Fax: 610-832-9555, Web site: www.astm.org, e-mail: service@astm.org.

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Special marking shall include regulatory marking.

Unit of issue – DR (One-hundred (100) pounds per drum).

NSN: 6810-00-227-0437

SODIUM CHLORIDE, TECHNICAL: Shall be in accordance with Commercial Item Description A-A-694E, dated February 21, 2013. Shall have the following characteristics:

Type I - 97.5% min. purity

Form 2 - Large granules (rock, solar, or evaporated)

Unit of issue – BG (Eighty (80) pounds per bag).

NSN: 6810-00-233-1715

SODIUM CARBONATE, ANHYDROUS, TECHNICAL: The product shall be a high grade anhydrous sodium carbonate in powdered form. When sampled, and tested, in accordance with ASTM D501, the material shall have the following characteristics.

The soda ash, after drying for 1 hour at 155°C, shall conform to the following:

Total Alkalinity, Calculated as Na ₂ CO ₃ , Min, %	99.26
Sodium Bicarbonate (NaCO ₃), Max, %	0.5
Matter Insoluble In Water, Max %	0.25

The product shall be anhydrous. Two (2) grams of the product shall be weighed and then heated at 150-155°C for 1 hour. The loss in weight shall not exceed 1%.

Apparent density – 42 to 70 lbs/cu.ft.

Shelf life code: 7. Maximum age on delivery shall not exceed five (5) months from date of manufacture. Date of re-inspection shall be thirty-six (36) months after date of manufacture.

Unit of issue – DR (One-hundred (100) pound drum).

NSN: 6810-01-026-0951

SODIUM CHLORIDE, TECHNICAL: Shall be in accordance with Commercial Item Description (CID) A-A-694, Revision E, dated 21 February 2013. Shall have the following characteristics:

Type II - 99.5% min. purity
Form 1 - Compressed pellets

Unit of Issue – BG – (One (1) bag containing fifty (50) pounds).

NSN: 6840-00-242-4770

DISINFECTANT, CALCIUM HYPOCHLORITE: Shall be in accordance with ASTM E1229-08. Shall have the following characteristics:

The item shall have 65% minimum available chloride.

The product shall be registered and labeled in compliance with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended in accordance with 40 Code of Federal Regulations (CFR) 152-180. This act and regulations promulgated there under is administered by the EPA.

Shelf life code: M. Maximum age on delivery - Three (3) months from date of manufacture. Date of expiration shall be twenty-four (24) months from date of manufacture

Preparation for delivery: The item(s) shall be prepared for air transport according to the applicable regulations of the Department of Transportation and in accordance with the latest revision of the International Air Transport Authority's Dangerous Goods Regulation, (IATA-DGR).

Unit of issue – BX (Twelve (12) each, three and three-quarter (3-3/4) pound containers per box for a total of forty-five (45) pounds)

NSN: 6840-00-246-6438

DEODORANT, GENERAL PURPOSE (URINAL CAKE): The item shall be an environmentally friendly urinal cake for use in deodorizing urinals. The cake shall not contain paradichlorobenzene or naphthalene. The product shall have a service life of 1,000 flushes or 30 days. The cake shall be biodegradable. Fragrance is at the suppliers' option.

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The product shall not violate any state or federal environmental regulations concerning use or transportation.

Unit of issue - CO - (Container of twelve (12) each, three (3.0) ounce minimum cakes without holders)

NSN: 6840-00-255-0472

DISINFECTANT, CALCIUM HYPOCHLORITE: Shall be in accordance with the most recent revision of ASTM E 1229. Shall have the following characteristics:

The item shall have 65% minimum available chloride.

The product shall be registered and labeled in compliance with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended in accordance with 40 Code of Federal Regulations (CFR) 152-180. This act and regulations promulgated there under is administered by the EPA.

Shelf life code: M. Maximum age on delivery - Three (3) months from date of manufacture. Date of expiration shall be twenty-four (24) months from date of manufacture

Preparation for delivery: The item(s) shall be prepared for air transport according to the applicable regulations of the Department of Transportation and in accordance with the latest revision of the International Air Transport Authority's Dangerous Goods Regulation, (IATA-DGR).

Unit of issue – DR – (One-hundred (100) pound drum).

NSN: 6840-00-551-8346

DISINFECTANT-DETERGENT, PINE OIL: Shall have the following characteristics:

The disinfectant shall have the characteristics listed below. The pine oil component shall be comprised of 60% (weight) terpene alcohols.

The disinfectant shall contain no sediment or suspended particulate matter.

Characteristic	Min %	Max %
Pine Oil Content (Percent By Weight)	60	---
Anhydrous Soda Soap (Percent By Weight)	10	---

Viscosity (centipoise @ 15.6°C): 100

pH – approx - 10.0

Flash Point (tag closed cup) - 76°C

Odor – The odor of the product shall be characteristic of pine oil. The odor shall not be rancid.

The disinfectant solution shall be registered with the Environmental Protection Agency (EPA) as a disinfectant which is effective at the use-dilution specified on the label against salmonella choleraesuis (ATCC No. 10708). It shall be labeled in compliance with the most current Regulations for the

Enforcement of the Federal Insecticide, Fungicide and Rodenticide Act (40 CFR 162-180) and Occupational and Safety Health Administration (OSHA) regulations (29 CFR 1910.1200).

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

All drums used to supply this material shall be new and unused.

Unit of issue – DR (Fifty-five (55) gallon drum).

Shelf life code: 7. Maximum age on delivery shall not exceed five (5) months from date of manufacture. Date of re-inspection shall be thirty-six (36) months after date of manufacture.

NSN: 6840-00-584-3129

DISINFECTANT-DETERGENT, PINE OIL: The disinfectant shall have the following characteristics:

- Pine oil component shall be comprised of 80% (weight) terpene alcohols.
- Disinfectant shall contain no sediment or suspended particulate matter.
- Odor of the product shall be characteristic of pine oil and shall not be rancid.

Characteristic	Min %	Max %
Pine Oil Content (Percent By Weight)	60	---
Anhydrous Soda Soap (Percent By Weight)	10	---

Viscosity (centipoise @ 15.6°C): 100

pH – approx - 10.0

Flash Point (tag closed cup) - 76°C

The product shall be registered and labeled in compliance with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended in accordance with 40 Code of Federal Regulations (CFR) 152-180. This act and regulations promulgated there under are administered by the EPA.

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

Unit of issue – BX (Six (6) one each, (1) gallon bottles per box)

Shelf life code: 7. Maximum age on delivery shall not exceed five (5) months from date of manufacture. Date of re-inspection shall be thirty-six (36) months after date of manufacture.

NSN: 6840-00-664-6610

DEODORANT, GENERAL PURPOSE (URINAL CAKE): The item shall be an environmentally friendly urinal cake with rim holder for use in deodorizing toilets. The cake shall not contain paradichlorobenzene or naphthalene. The product shall have a service life of 1,500 flushes or 30 days.

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The product shall be biodegradable by EPA/OECD test methods.

The product shall not violate any state or federal environmental regulations concerning use or transportation.

Maximum age on delivery shall not exceed five (5) months from date of manufacture.

Unit of issue- CO - (Container of twelve (12) each, one and one-half (1.5) ounce cakes with holders)

NSN: 6840-00-687-7904

DISINFECTANT-DETERGENT, PINE OIL: The disinfectant shall have the following characteristics:

- Pine oil component shall be comprised of 80% (weight) terpene alcohols.
- Disinfectant shall contain no sediment or suspended particulate matter.
- Odor of the product shall be characteristic of pine oil and shall not be rancid.

Characteristic	Min %	Max %
Pine Oil Content (Percent By Weight)	60	---
Anhydrous Soda Soap (Percent By Weight)	10	---

Viscosity (centipoise @ 15.6°C): 100

pH – approx - 10.0

Flash Point (tag closed cup) - 76°C

The product shall be registered and labeled in compliance with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended in accordance with 40 Code of Federal Regulations (CFR) 152-180. This act and regulations promulgated there under are administered by the EPA.

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

Unit of issue – BX (Twenty four (24) each, One (1) quart bottles per box)

Shelf life code: 7. Maximum age on delivery shall not exceed five (5) months from date of manufacture. Date of re-inspection shall be thirty-six (36) months after date of manufacture.

NSN: 6840-00-721-6055

DEODORANT, GENERAL PURPOSE: Lighthouse for the Blind, St. Louis, P/N 75400 or equal, with the following requirements and characteristics:

The product shall leave a mild and pleasant odor immediately after spraying. The product shall counteract offensive odors in hospitals, sick rooms, lavatories, kennels, and aircraft. The product shall not contain formaldehyde or dichlorobenzene (ortho, meta, para or any combination thereof) in quantities greater than 0.5%. Propellant gas shall contain no fluorocarbons or vinyl chloride.

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Approx Wt. %
Propane	74-98-6	5
Butane	106-97-8	10
Isobutane	75-28-5	8

FLASH POINT – approx - 156°F (propellant)
pH: approx – 9.5
Specific Gravity: - approx. 0.840 gm/cc.

Unit of issue- BX (twelve (12) each, fourteen (14) ounce aerosol cans per box).

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture.
Date of re-inspection shall be twenty-four (24) months after date of manufacture.

NSN: 6840-01-342-4143

DISINFECTANT-DETERGENT, PINE OIL: Shall be in accordance with Commercial Item Description (CID) A-A-2793 dated July 6, 1992 and Notice 2 dated November 2, 1999. Shall have the following characteristics:

The product shall be registered and labeled in compliance with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended in accordance with 40 Code of Federal Regulations (CFR) 152-180. This act and regulations promulgated there under is administered by the EPA.

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

Unit of issue – BX (Twenty four (24) each, one (1) liter bottles per box)

Shelf life code: 7. Maximum age on delivery shall not exceed five (5) months from date of manufacture.
Date of re-inspection shall be thirty-six (36) months after date of manufacture.

NSN: 6840-01-368-4785

DEODORANT, GENERAL PURPOSE: LHB Industries; SKILLCRAFT-ZEP Meter Mist Refill, Peach Scent, P/N: 0744---002 or equal, with the following requirements and characteristics:

The item shall be functionally compatible with the SKILLCRAFT - ZEP Meter Mist 3000 Plus and Meter Mist 3000 Select dispensers. It shall eliminate odors by chemically de-activating their molecular structure. One unit shall control odors in rooms up to 20 ft x 30 ft. It shall be capable of dispensing 3,000 metered sprays utilizing Meter Mist 3000 Plus & Select.

The product shall meet the volatile organic content specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

Not flammable by CSMA flame extension test.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Ingredient	CAS #	Approx %Wt.
Acetone	67-64-1	55-65
Ethanol	64-17-5	10
Propylene Glycol; 1-2-Dihydroxypropane	57-55-6	10
Liquefied Petroleum Gas	68476-85-7	20-30

Physical characteristics shall include:

Fragrance – Peach
Net Wt. - 7 Ounce

Unit of issue – DZ - (Twelve (12) each, seven (7) ounce net weight aerosol cans).

NSN: 6840-01-368-4787

DEODORANT, GENERAL PURPOSE: LHB Industries, SKILLCRAFT-ZEP Meter Mist Refill, Green Apple scent, P/N: 0744---003 or equal, with the following requirements and characteristics.

The item shall be functionally compatible with the SKILLCRAFT - ZEP Meter Mist 3000 Plus and Meter Mist 3000 Select dispensers. The product shall eliminate odors by chemically de-activating their molecular structure. One unit shall control odors in rooms up to 20 ft x 30 ft. It shall be capable of dispensing 3,000 metered sprays utilizing Meter Mist 3000 Plus & Select.

Not flammable by CSMA flame extension test.

The product shall meet the volatile organic content specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The product shall also have the following physical properties and contain the materials in the quantities specified:

Ingredient	CAS #	Approx %Wt.
Acetone	67-64-1	55-65
Ethanol	64-17-5	10
Propylene Glycol; 1-2-Dihydroxypropane	57-55-6	10
Liquefied Petroleum Gas	68476-85-7	20-30

Physical characteristics shall include:

Fragrance – Green Apple
Can Size - 10 fluid ounce
Net Wt. - 7 Ounce

Unit of issue – DZ - (Twelve (12) each, seven (7) ounce net weight aerosol cans).

NSN: 6840-01-368-4789

DEODORANT, GENERAL PURPOSE: LHB Industries, SKILLCRAFT-ZEP Meter Mist Refill, Country Garden scent, P/N: 0744-001 or equal, with the following requirements and characteristics.

The item shall be functionally compatible with the SKILLCRAFT-ZEP Meter Mist 3000 Plus and Meter Mist 3000 Select dispensers. The product shall eliminate odors by chemically de-activating their molecular structure. One unit controls odors in rooms up to 20 ft x 30 ft. Capable of dispensing 3,000 metered sprays utilizing Meter Mist 3000 Plus & Select.

Not flammable by CSMA flame extension test.

The product shall meet the volatile organic content specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The product shall have the following ingredients in the quantities specified:

Ingredient	CAS #	Approx %Wt.
Acetone	67-64-1	55-65
Ethanol	64-17-5	10
Propylene Glycol; 1-2-Dihydroxypropane	57-55-6	10

Liquefied Petroleum Gas	68476-85-7	20-30
-------------------------	------------	-------

Physical characteristics shall include:

Fragrance – Country Garden
 Can Size - 10 fluid ounce
 Net Wt. - 7 Ounce

Unit of issue – DZ - (Twelve (12) each, seven (7) ounce net weight aerosol cans).

NSN: 6840-01-410-8860

DISINFECTANT-DEODORANT, GENERAL PURPOSE: ZEP Manufacturing Co., Zepynamic-A, P/N: 011001 or equal, with the following requirements and characteristics:

The product shall thoroughly and rapidly kill bacteria, viruses, fungi, mold and mildew. It shall deodorize and be pleasantly scented. The product shall dry instantly, leaving no oily film.

The product shall be registered and labeled in compliance with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended in accordance with 40 Code of Federal Regulations (CFR) 152-180. This act and regulations promulgated there under is administered by the EPA.

The disinfectant shall be effective against the following pathogens.

Inactivates HIV-1 (AIDS) virus and Herpes Simplex Types 1 and 2 viruses on precleaned environmental surfaces or objects previously soiled with blood or bodily fluids. Kills TB, Salmonella, Paratyphoid B, Streptococcus, canine-related and other viruses. Kills Athlete's Foot fungus, Escherichia coli, and Staphylococcus aureus. Controls mold and mildew. The product shall dry instantly, leaving no oily film.

Kills both gram positive and gram negative bacteria including Escherichia coli; Pseudomonas aeruginosa' Salmonella choleraesuis' Salmonella schottmuelleri.

Kills the species: Mycobacterium tuberculosis (Tubercule bacilli).

Completely inhibits growth of Aspergillus niger and Penicillum glaucum fungi on cloth.

The product shall also have the following physical properties and contain the materials in the quantities specified:

Ingredient	CAS #	Approx %Wt.
Ethanol	64-17-5	53
Hydrocarbon Propellant	75-28-5; 74-98-6; 106-97-8	10-20

Physical characteristics shall include:

Case Pack – 12 cans
 Can Size - 20 ounce
 Net wt shall be a minimum of 15 ounces

Unit of issue – BX - (Twelve (12) each, twenty (20) ounce aerosol containers per box.)

NSN: 6840-01-425-8232

DEODORANT, GENERAL PURPOSE: LHB Industries, SKILLCRAFT-ZEP Meter Mist Refill, Smoke Screen scent, P/N: 0744-005 or equal, with the following requirements and characteristics:

The item shall be functionally compatible with the SKILLCRAFT-ZEP Meter Mist 3000 Plus and Meter Mist 3000 Select dispensers. The product shall eliminate odors by chemically de-activating their molecular structure. One unit controls odors in rooms up to 20 ft x 30 ft. It shall be capable of dispensing 3,000 metered sprays utilizing Meter Mist 3000 Plus & Select.

Not flammable by CSMA flame extension test.

The product shall meet the volatile organic content specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The product shall also have the following physical properties and contain the materials in the quantities specified:

Ingredient	CAS #	%Wt.
Acetone	67-64-1	55-65
Ethanol	64-17-5	10
Propylene Glycol; 1-2-Dihydroxypropane	57-55-6	10
Liquefied Petroleum Gas	68476-85-7	20-30

Physical characteristics shall include:

Fragrance – Smoke Screen (Mountain Air)
Can Size - 10 fluid ounce
Net Wt. - 7 Ounce

Unit of issue – DZ - (Twelve (12) each, seven (7) ounce net weight aerosol cans).

NSN: 6840-01-429-5864

DEODORANT, GENERAL PURPOSE: LHB Industries, SKILLCRAFT-ZEP Meter Mist Refill, French Vanilla scent, P/N: 0744-004 or equal, with the following requirements and characteristics:

The item shall be functionally compatible with the LHB Industries, SKILLCRAFT-ZEP Meter Mist 3000 Plus and Meter Mist 3000 Select dispensers. The product shall eliminate odors by chemically de-activating their molecular structure. One unit controls odors in rooms up to 20 ft x 30 ft. It shall be capable of dispensing 3,000 metered sprays utilizing Meter Mist 3000 Plus & Select

Not flammable by CSMA flame extension test.

The product shall meet the volatile organic content specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The product shall also have the following physical properties and contain the materials in the quantities specified:

Ingredient	CAS #	%Wt.
Acetone	67-64-1	55-65
Ethanol	64-17-5	10
Propylene Glycol; 1-2-Dihydroxypropane	57-55-6	10

Liquefied Petroleum Gas	68476-85-7	20-30
-------------------------	------------	-------

Physical characteristics shall include:

Fragrance – French Vanilla
 Can Size - 10 fluid ounce
 Net Wt. - 7 Ounce

Unit of issue – DZ - (Twelve (12) each, seven (7) ounce net weight aerosol cans).

NSN: 6840-01-451-9189

DISINFECTANT, GENERAL PURPOSE: Susquehanna Association for the Blind, P/N Urinal Screen Kit, with the following characteristics:

Each kit contains a plastic urinal screen, 2.5-ounce urinal cake and one latex glove. The urinal cake shall not contain paradichlorobenzene or naphthalene. The product shall have a service life of 1,500 flushes or 30 days.

The product shall be biodegradable by EPA/OECD test methods.

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The product shall not violate any state or federal environmental regulations concerning use or transportation.

Unit of issue – DZ (Twelve (12) Kits).

NSN: 6840-01-459-8263

DEODORANT, GENERAL PURPOSE: LHB Industries, SKILLCRAFT-ZEP Meter Mist Refill, Mandarin Orange scent P/N: 0744-008 or equal, with the following requirements and characteristics:

The product shall be functionally compatible with the SKILLCRAFT -ZEP Meter Mist 3000 Plus and Meter Mist 3000 Select dispensers. It shall eliminate odors by chemically de-activating their molecular structure. One unit controls odors in rooms up to 20 ft x 30 ft.

It shall be capable of dispensing 3,000 metered sprays utilizing Meter Mist 3000 Plus & Select. It shall not flammable by CSMA flame extension test.

The product shall meet the volatile organic content specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The product shall also have the following physical properties and contain the materials in the quantities specified:

Ingredient	CAS #	Approx %Wt.
Acetone	67-64-1	55-65
Ethanol	64-17-5	10
Propylene Glycol; 1-2-Dihydroxypropane	57-55-6	10
Liquefied Petroleum Gas	68476-85-7	20-30

Physical characteristics shall include:

Fragrance – Mandarin Orange
 Case Pack – 12 cans
 Can Size - 10 fluid ounce
 Net Wt. - 7 Ounce

Unit of issue – DZ - (Twelve (12) each, seven (7) ounce net weight cans per box).

NSN: 6850-00-063-2843

BLEACH, LAUNDRY, ORGANIC CHLORINE: Shall have the following characteristics:

This description covers one type of organic chlorine, dry bleach intended for direct addition to the laundry wheel in field and industrial laundry operations. The bleach is not intended to disinfect water, fruit, or vegetables.

1.1 Materials: The bleach shall be a white powder or bead containing an organic, chlorine liberating compound. The organic bleach shall be clean, free flowing, homogeneous, and shall show no evidence of separation. The bleach shall not be compounded using trichloroisocyanuric acids or mixtures containing trichloroisocyanuric acids, and shall contain no caustic sodas. In addition, the bleach shall contain a dusting agent; reactivity with carbonates shall result in slight turbidity. The bleach shall also meet the requirements specified in table I.

TABLE I. Physical and chemical requirements.

Physical and Chemical Requirement	Minimum	Maximum	Test Method
Available Chlorine (Percent)	15.0	17.0	1/
Phosphates, as P ₂ O ₅ (Sodium Tripolyphosphate, Tetra-Sodium Pyrophosphate or Mixtures Thereof) (Percent)	14.0	20.0	D 820 2/
Carbonates, as CO ₂ (Percent)	---	0.2	D 460 2/
Ph of an Aqueous Solution	7.8	9.0	E 70 2/
Insoluble Matter Content (Percent)	---	1.5	D 820 2/
Moisture Content (Percent)	---	2.0	D 820 2/
Loss of Available Chlorine On Heating (Percent)	---	20.0	3/
Physical and Chemical Requirement	Minimum	Maximum	Test Method
Loss On Ignition (Percent)	18.0	---	D 501 2/
Particle Size, Pass Through (Percent)			
16 Mesh Sieve	90.0	---	D 502 2/
200 Mesh Sieve	---	1.0	D 502 2/
Stain Removal (When Tested For Tea Stain, Orange Pekoe Cut Black) (Percent)	78.0	---	4/

1) Weigh a 10 gram sample of bleach to the nearest hundredth of a gram into a clean, dry 500 milliliter Erlenmeyer flask containing a magnetic stirring bar. Add 200 milliliters of distilled water and 50 milliliters of alkaline potassium iodide solution (200 grams KI and 120 grams NaOH per liter). Stir for at least 5 minutes to dissolve the bleach, then slowly add 50 milliliters hydrochloric acid solution (1:1 of hydrochloric acid and distilled water) while continuing to stir. Loss of iodine vapors to the atmosphere will give erroneous results. Titrate immediately with sodium thiosulfate solution (1.0N) to a straw color. Add 5 milliliters of starch solution (1.0 percent) and continue titration slowly to the disappearance of blue color.

Percent available chlorine =

$$\frac{\text{mL. Na}_2\text{S}_2\text{O}_3 \text{ X normality of Na}_2\text{S}_2\text{O}_3 \text{ X.O.03546 X 100}}{\text{Weight of sample (grams)}}$$

2) ASTM test method.

3) A small Wood's metal bath shall be prepared with a 250-mL metal beaker filled to approximately three-fourths capacity with molten Wood's metal. This bath shall be heated either over a Bunsen burner or in an electric beaker heating mantle with rheostat. A thermometer (0° to 360°C) shall be inserted in the Wood's metal 1 inch from the side of the beaker so the top of the mercury bulb is 1 inch below the surface. A safety shield shall then be placed in front of this assembly. The analyst should wear protective clothing and complete eye and face protection. Into a 1- by 8-inch Pyrex test tube 5.0 grams of the unground product shall be placed. The bulb of a thermometer, 0° to 360°C, shall be immersed in this sample and the test tube shall be supported over the Wood's metal bath so that the top of the sample is just below the level of the Wood's metal. Heat shall be applied to the metal bath at such a rate that the temperature of the sample under test does not lag more than 10°C below the temperature of the bath. The temperature of the bleach shall be watched constantly. Visual indications of rapid reaction such as mild explosion, fire, or sudden rapid rise to a temperature greater than that of the bath shall be considered as evidence of thermal decomposition. The temperature taken at the point of decomposition is not the temperature reached after reaction has taken place, but is rather the last observed temperature before the reaction.

4) Preparation of stained swatches:

a. Cloth. The cloth shall be preshrunk, plain weave, permanent finish cotton and shall contain approximately 54 ends and 45 picks per square inch and weigh approximately 5.1 ounces per square yard. The initial reflectance of the cloth shall be determined using a Model 610 Photovolt or equivalent, and a green tri-stimulus filter. Thirty-two, 3.5- by 3.5-inch, swatches shall be prepared.

b. Staining. Bring 1 liter of tap water to a boil. Insert five tea bags (Orange Pekoe Cut Black) in the boiling water and boil for 5 minutes, then remove bags. Insert 32 cloth swatches (3.5 by 3.5 inches) and continue to boil for 5 minutes. Remove swatches, wring out, and dry in a clothes dryer at 180° ± 10°F for 30 minutes. Rinse in cold water and repeat drying procedure.

NOTE : Stained swatches older than 2 weeks shall be discarded and fresh swatches prepared. Record the reflectance of the stained swatches taking average readings of both sides. Use swatches stacked four deep for the readings in order to get a background of similar reflectance.

Stain removal:

a) Apparatus. A Launder-Ometer with pre-heating load table, or similar machine, shall be used, in which 1-pint glass jars or Atlas, Type 1, part no. 11-2432-00, stainless steel containers (supplier: Atlas Electric Devices Co., Chicago, IL) are held with their bases toward a horizontal shaft and 2 inches from its center or rotation, the shaft having a speed of rotation of 40 to 45 r.p.m. The temperature of the bath shall be maintained at 49° ± 2°C.

b) Reagents:

Water. The hardness of the water shall not exceed 50 ppm calculated as calcium carbonate (CaCO₃).

Detergent solution. A 0.4 percent solution of a synthetic detergent (bead form) conforming to type III of P-D-245 shall be used.

Bleach solution. A solution of laundry bleach shall be prepared in a 2-liter volumetric flask using sufficient ground and mixed dry bleach to give a concentration of 200 ppm available chlorine (0.02 percent). Weigh

bleach sample directly into the flask from a tared container of bleach and determine sample weight by difference. Prepare this solution immediately before use.

c) Procedure. Measure into 1-pint glass jars or Atlas, Type 1, part no. 11-2432-00, stainless steel containers, each containing ten 1/4-inch stainless steel balls, 150 mL of detergent solution and 150 mL of bleach solution both solutions at a temperature of 49°C. Place two stained swatches in each jar. Cap the jars and place in washing machine. The machine shall be operated for 20 minutes at temperature of 49°C ± 2°C. After washing, the swatches shall be removed, rinsed thoroughly in water at a temperature of 45° - 50°C, squeezed by hand to remove excess water, smoothed flat, and air dried. Measure the reflectance of the bleach swatches, taking average readings on both sides. Use swatches stacked four deep for readings in order to get a background of similar reflectance.

Calculation. Calculate the total percent stain removed as follows:

$$\text{Total percent stain removed} = \frac{B - S}{O - S} \times 100$$

B = Average swatch reflectance after bleaching

S = Average swatch reflectance of stained swatch

O = Initial reflectance of original unstained swatch

Unit of issue – DR (Fifty (50) pound drum).

Shelf Life Code: 5. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be eighteen (18) months from date of manufacture.

NSN: 6850-00-281-1985

DRY CLEANING SOLVENT: Shall be in accordance with the most recent revision of the Commercial Item Description A-A-59601. Shall have the following characteristics:

Type I – Regular (Stoddard solvent)

Size code E - one (1) gallon

Unit of Issue – BX (four (4) each, 1 (one) gallon containers per box)

Shelf life code: 7. Maximum age on delivery shall not exceed five (5) months from date of manufacture. Date of re-inspection shall be thirty-six (36) months after date of manufacture.

NSN: 6850-00-926-2275

CLEANING COMPOUND, WINDSHIELD (SOLVENT AND ANTIFREEZE, CONCENTRATED): Shall be in accordance with the most recent revision of Commercial Item Description A-A-59664. Shall have the following characteristics:

Type II – Concentrate

Size Code A – 16-ounce size (one pint)

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements. Special marking is required.

Unit of Issue – BX – (Twelve (12) each, one (1) pint containers per box).

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

NSN: 6850-01-531-4517

SCALE PREVENTION COMPOUND: The product shall meet the following requirements and characteristics:

The product shall be in accordance with the latest revision of the Military Performance Specification MIL-PRF-32217. The product shall be listed in the latest revision of QPL-32217 and shall have the following characteristics:

CLASS 1, TYPE 1

Unit of issue – BX (Five (5) kilograms, consisting of one-hundred (100) each, fifty (50) gram sachets).

NSN: 6850-01-574-8506

SCALE PREVENTION COMPOUND: The product shall have the following requirements and characteristics:

The product shall be in accordance with the most recent revision of Military Performance Specification MIL-PRF-32217. The product shall be listed in the latest revision of QPL-32217 and shall have the following characteristics:

Class 3, Type 1.

The product shall be biodegradable by EPA/OECD test methods.

Unit of Issue – BX – (six (6) each, eight (8) pound containers)

NSN: 7930-00-045-6912

REMOVER, FLOOR POLISH: Shall be a liquid compound that will remove water emulsion floor finish and floor wax from impermeable floor surfaces with the following characteristics:

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

Material: The compound shall be a homogenous, free-flowing liquid. Upon application, it shall form a uniform layer or sheet of liquid without beading or puddling.

Ammonia: The compound shall contain no volatile ammonia when tested as follows: Mix 2 ml. of compound with 10 ml. of 10 percent sodium hydroxide. Distill and catch the distillate (1-2 ml.) in a tube containing 5 ml. of ammonia free distilled water. Add a few ml. of Nessler's reagent to the tube containing the distillate. A brown color indicates ammonia. Yellow or white colors indicate volatile amines, and are not cause for rejection.

Removal efficiency: The compound shall completely remove high durability water emulsion floor finish having a total solids content of not less than 15 percent when tested in accordance with ASTM D 1792 and the following exceptions:

- 1) The compound, diluted 12 to 1 with tap water, shall be used in place of the stripper solution.
- 2) The diluted compound shall have a 5-minute presoak on the substrate.
- 3) The total number of oscillations required for complete removal shall be not more than 50.
- 4) The substrate shall be coated with the floor finish described above.

Deleterious action: Commercial vinyl-asbestos (reinforced vinyl) and asphalt tile surfaces shall not soften, swell, blister, crack, pit, change color, or be affected by solvent when tested as follows: Prepare 2X4X1/8 inch test coupons from asphalt and vinyl asbestos tile. Place the coupons in separate 250 ml. beakers and add 150 ml. of compound, diluted 12 to 1 to each beaker. Prepare the 12 to 1 solution by adding 50 ml. of compound to 600 ml. of distilled water. Allow to stand for 4 hours at room temperature (22-26°C), rinse thoroughly with distilled water and allow to dry one hour at room temperature. Examine the dry coupons and residual solution for evidence of deleterious action.

Odor: The compound shall have no objectionable odor, nor shall it develop an objectionable odor in water solutions, in use, or when stored in the original container.

All items packed in open head pails of 4 to 6 gallon capacity shall have the pails marked with Child Drowning Warning Labels to comply ASTM F 1615. ASTM standards are available from ASTM, 100 Barr Harbor Dr., West Conshohocken, PA 19428.

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue - CO (Five (5) gallon container).

NSN: 7930-00-056-8144

DETERGENT, GENERAL PURPOSE: The Clorox Co. FORMULA 409 All-Purpose Cleaner; P/N 00889 or equal, with the following characteristics and requirements:

The product shall be a cleaner/degreaser that can be used on hard, nonporous surfaces. It shall be capable of removing food soils, soap scum, lubricants, grease, grime, smoke and vapor deposits. It shall be a ready-to-use, no-rinse formula.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	Cas #	Approx Wt. %
Lauramine Oxide	1569-01-3	0.5-1.5
n-Alkyl (C12-16) Dimethylbenzyl Ammonium Chloride	68424-85-1	0.2-0.4

pH approx – 9.0 - 11.5

Specific Gravity: - approx. 1.0 gm/cc

The product shall be registered and labeled in compliance with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended in accordance with 40 Code of Federal Regulations (CFR) 152-180. This act and regulations promulgated there under is administered by the EPA.

CLEANING PERFORMANCE

The product shall clean hard surfaces effectively by demonstrating that it performs as well as, or better than, the standard test product, as measured by test method A5 “particulate and oily soil/vinyl tiles” specified in the most current version of ASTM D4488, “Standard Guide for Testing Cleaning Performance of Products Intended for Use on Resilient Flooring and Washable Walls.”

Standard Test Product:

FORMULA 409; All-Purpose Cleaner P/N CLO00889
THE CLOROX CO.

1221 BROADWAY
P.O. BOX 24305
OAKLAND, CA 94623-1305

Copies of ASTM test methods may be obtained from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959 Website: <http://www.astm.org>

Shelf life code: 7. Maximum age on delivery shall not exceed five (5) months from date of manufacture. Date of re-inspection shall be thirty-six (36) months after date of manufacture.

Unit of issue – BX (twelve (12) each, Thirty-two (32) ounce bottles per box).

NSN: 7930-00-068-1669

DETERGENT, GENERAL PURPOSE: General purpose ready-to-use, spray-on, wipe-off, hard surface cleaner with the following characteristics:

The product shall be a clean, homogeneous, ready-to-use solution with no sediment or foreign material. It shall be a liquid detergent containing no phosphates, abrasives, or dyes. It shall be non-abrasive and non-flammable.

VOC Compliance. The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The general purpose cleaner shall have a minimum biobased content of 39% and shall be based on the amount of qualifying biobased carbon in the finish product as a percent of the weight (mass) of the total organic carbon in the finished product as specified by the Department of Agriculture Designation of Biobased Items for Federal Procurement: Final Rule (Federal Register, Vol. 71, No. 51, March 16, 2006).

Cleaning performance

The detergent shall have a cleaning efficiency of 80% when tested in accordance with ASTM D 4488, Method A5, except as follows:

- a) Used crankcase motor oil shall not be used as an ingredient of the particulate soil mixture.
- b) After completing the 10 cycles, during the cleaning test, the sponge shall be inverted in the sponge holder and another 5 cycles shall be completed before rinsing the tile in tap water.

Copies of ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. Phone: 610-832-9585, Fax: 610-832-9555, Web site: www.astm.org, e-mail: service@astm.org.

Shelf life code: 7. Maximum age on delivery shall not exceed five (5) months from date of manufacture. Date of re-inspection shall be thirty-six (36) months after date of manufacture.

Unit of issue – BX (Six (6) each, one half (1/2) gallon bottles per box)

NSN: 7930-00-132-5265

SWEEPING COMPOUND: Shall be sawdust-sand-mineral oil sweeping compound with the following characteristics:

The sweeping compound shall be a clean, homogenous mixture free from lumps and caking, and conform to the following requirements:

Requirement (%)	Min.	Max.
Volatile matter at 105°C, weight	---	12
Extractable Oil	10	26
Sand, weight	35	50
Sawdust, weight	22	---
Retained on No. 20 sieve, weight Based on total sand content	---	1.0
Retained on No. 8 sieve, weight Based on total sawdust content	---	1.0
Retained on No. 40 sieve, weight Based on total sawdust content	---	40.0

Matter volatile at 105°C. Weigh 35 grams of the sample in a tared weighing bottle and heat with stopper removed for 2 hours in an oven at a temperature of 105 +/-2°C. Insert stopper, cool in desiccator, and weigh. Repeat to a weight constant to within 0.1 gram. Calculate loss in weight as volatile matter. Save the dried sample for the extractable oil determination.

Extractable oil. Transfer, quantitatively, the dried sample mentioned above, to an extraction thimble. Pour 150 milliliters of ethyl ether, or a suitable solvent, into a tared 250 milliliter extraction flask. Assemble the extraction flask tube and condenser on a steam bath and extract for 10 cycles. Stop extraction process so as to retain the maximum volume of ether in the extraction flask. Connect extraction flask to a distilling condenser and distill off the ether using a steam bath. Remove the last trace of ether from the flask on the steam bath. Cool the flask in a desiccator, weigh and calculate the percentage of oil. Save the air-dried thimble residue for the sieve analysis.

Sieve test. Using the thimble residue, test shall be made using a mechanical shaker which imparts to the sieves a rotary motion and tapping action of a uniform speed of 300 +/- 15 gyrations and 150 +/- taps of the striker per minute. Sieves shall conform to ASTM E 11.

Ashing procedure. Ash the material collected on each sieve separately and that which passed through the sieves. Ash the material to constant weight, cool in a desiccator, and record the weight of the ash in each sample. Calculate the percent sand and sawdust. The sawdust content is the loss in weight during ashing.

Combustibility. The product shall not be permanently ignited and there shall be no spreading of flames on the product beyond an area of 1-1/2 inch radius from the center of the pan and shall cease within one minute after the pill is consumed when tested as follows: Loosely fill a 20 cm (8-inch) diameter metal container, such as a pie pan, to an even thickness of 13 to 19 mm (1/2 to 3/4 inch). Place a standard methenamine pill in the center of the pan. Ignite the methenamine pill with a match in a draft free room.

Flash point. The flash point of the oil shall be a minimum of 125°C (257°F) when specified in ASTM D 93.

ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959

All items packed in open head pails of 4 to 6 gallon capacity shall have the pails marked with Child Drowning Warning Labels to comply ASTM F 1615. ASTM standards are available from ASTM, 100 Barr Harbor Dr., West Conshohocken, PA 19428.

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – CO (One hundred (100) pounds per container).

NSN: 7930-00-141-5888

WAX, FLOOR, WATER EMULSION: Shall be high durability, slip resistant, soil resistant, non water spotting, water emulsion floor wax intended for use on all non-wood floors and for sealed wood floors with the following characteristics:

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

Total solids (nonvolatile content) shall be not less than 16 percent; any sediment present shall be soft and free from grit and shall not exceed 0.1 percent by volume; pH shall not be greater than 10.0; the wax shall develop no offensive odor, exhibit no creaming, gelling or separation while in storage during the shelf life. The wax shall dry completely with no sticky residue, shall not turn yellow and shall be capable of producing a high gloss finish.

Slip Resistance- Shall meet requirements for providing nonhazardous walkways as determined by ASTM Method D 2047.

All items packed in open head pails of 4 to 6 gallon capacity shall have the pails marked with Child Drowning Warning Labels to comply ASTM F 1615. ASTM standards are available from ASTM, 100 Barr Harbor Dr., West Conshohocken, PA 19428.

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – CO (Five (5) gallon container).

NSN: 7930-00-177-5243

DETERGENT, GENERAL PURPOSE: General purpose ready-to-use, spray-on, wipe-off, hard surface cleaner with the following characteristics:

The product shall be a clean, homogeneous, ready-to-use solution with no sediment or foreign material. It shall be a liquid detergent containing no phosphates, abrasives, or dyes. It shall be non-abrasive and non-flammable.

VOC Compliance. The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The general purpose cleaner shall have a minimum biobased content of 39% and shall be based on the amount of qualifying biobased carbon in the finish product as a percent of the weight (mass) of the total organic carbon in the finished product as specified by the Department of Agriculture Designation of Biobased Items for Federal Procurement: Final Rule (Federal Register, Vol. 71, No. 51, March 16, 2006).

Cleaning Performance

The detergent shall have a cleaning efficiency of 80% when tested in accordance with ASTM D 4488, Method A5, except as follows:

- a) Used crankcase motor oil shall not be used as an ingredient of the particulate soil mixture.
- b) After completing the 10 cycles, during the cleaning test, the sponge shall be inverted in the sponge holder and another 5 cycles shall be completed before rinsing the tile in tap water.

Copies of ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. Phone: 610-832-9585, Fax: 610-832-9555, Web site: www.astm.org, e-mail: service@astm.org.

Shelf life code: 7. Maximum age on delivery shall not exceed five (5) months from date of manufacture. Date of re-inspection shall be thirty-six (36) months after date of manufacture. Unit of issue – BX (Six (6) each, One (1) gallon bottle per box)

NSN: 7930-00-205-2870

WAX, FLOOR, WATER EMULSION: Shall be high durability, slip resistant, soil resistant, non water spotting, water emulsion floor wax intended for use on all non-wood floors and for sealed wood floors with the following characteristics:

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

Total solids (nonvolatile content) shall be not less than 16 percent; any sediment present shall be soft and free from grit and shall not exceed 0.1 percent by volume; pH shall not be greater than 10.0; the wax shall develop no offensive odor, exhibit no creaming, gelling or separation while in storage during the shelf life. The wax shall dry completely with no sticky residue, shall not turn yellow and shall be capable of producing a high gloss finish.

Slip Resistance- Shall meet requirements for providing nonhazardous walkways as determined by ASTM Method D 2047.

Copies of ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. Phone: 610-832-9585, Fax: 610-832-9555, Web site: www.astm.org, e-mail: service@astm.org.

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – GL (One (1) gallon container).

NSN: 7930-00-252-6797

DETERGENT, LAUNDRY: Shall be in accordance with Federal Specification P-D-245F, dated July 11, 1990 and Amendment-1, dated October 11, 1991 with the following characteristics:

Type II - Controlled sudsing and non-phosphate.

NOTICE: This product is used to launder military battle uniforms. Phosphates, optical brighteners and dyes are not permitted (see Amendment-1), strict adherence to specification requirements is critical.

PRODUCT CONFORMANCE: The products provided shall meet the salient characteristics of this description, conform to the producer's own specifications, standards, and quality assurance practices and be the same product offered for sale in the commercial market. The Government reserves the right to require proof of such conformance.

EXCEPTIONS TO THE SPECIFICATION:

1) Paragraph 3.5: At the supplier's option the following may be used: In lieu of the specified container markings, the supplier may place the marking "SEE INSIDE CONTAINER FOR PRODUCT

DESCRIPTION, PRODUCT USE DIRECTIONS AND PRECAUTIONS” on the outside of the container. All other markings required under paragraph 3.5.2 may be placed inside the container.

2) Delete section 5 and substitute the following:

PREPARATION FOR DELIVERY: The item(s) shall be packaged and packed to afford adequate protection against physical damage during shipment from the supplier to the first receiving activity. The pack shall comply with the rules and regulations applicable to the mode of transportation. The package shall be the same as that normally provided by the supplier.

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – DR (fifty (50) pounds net per drum).

NSN: 7930-00-269-1272

ABSORBENT MATERIAL, OIL AND WATER: Shall be a low dusting, granular clay/silicate calcite type absorbent material for use in absorbing oil and water. The absorbent material shall contain less than 0.1 % crystalline silicates. The total crystalline silicate shall be determined using NIOSH Method 7500.

All items packed in open head pails of 4 to 6 gallon capacity shall have the pails marked with Child Drowning Warning Labels to comply ASTM F 1615. ASTM standards are available from ASTM, 100 Barr Harbor Dr., West Conshohocken, PA 19428.

Unit of issue – CO (forty-four (44) pounds minimum product net weight per container).

NSN: 7930-00-282-9699

DETERGENT, GENERAL PURPOSE (LIQUID, NONIONIC): Shall conform to Military Specification MIL-D-16791G, dated January 26, 1990 and Amendment-1, January 15, 1993 with the following characteristics:

Type I - Water-soluble

Shelf life code: 7. Maximum age on delivery shall not exceed five (5) months from date of manufacture. Date of re-inspection shall be thirty-six (36) months after date of manufacture.

Unit of issue – BX (six (6) each, one (1) gallon containers per box).

NSN: 7930-00-357-7386

DETERGENT, GENERAL PURPOSE: General purpose ready-to-use, spray-on, wipe-off, hard surface cleaner with the following characteristics:

The product shall be a ready-to-use, cleaner/degreaser that cuts away grease, dirt, soap scum, food stains and fingerprints from most surfaces. It shall be an alkaline liquid detergent that contains no phosphates or dyes. It shall be non-abrasive and non-flammable.

VOC Compliance. The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The general purpose cleaner shall have a minimum biobased content of 39% and shall be based on the amount of qualifying biobased carbon in the finish product as a percent of the weight (mass) of the total organic carbon in the finished product as specified by the Department of Agriculture Designation of Biobased Items for Federal Procurement: Final Rule (Federal Register, Vol. 71, No. 51, March 16, 2006.

Cleaning performance

The detergent shall have a cleaning efficiency of 80% when tested in accordance with ASTM D 4488, Method A5, except as follows:

- a) Used crankcase motor oil shall not be used as an ingredient of the particulate soil mixture.
- b) After completing the 10 cycles, during the cleaning test, the sponge shall be inverted in the sponge holder and another 5 cycles shall be completed before rinsing the tile in tap water.

Copies of ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. Phone: 610-832-9585, Fax: 610-832-9555, Web site: www.astm.org, e-mail: service@astm.org.

Shelf life code: 7. Maximum age on delivery shall not exceed five (5) months from date of manufacture. Date of re-inspection shall be thirty-six (36) months after date of manufacture.

Unit of issue – BX(Twelve (12) each, twenty-two (22) ounce pump-spray container).

NSN: 7930-00-459-2247

CLEANING COMPOUND, OVEN: Shall be aerosol oven cleaner suitable for removing heavy, baked-on grease and carbonized soil deposits on grills, ovens, fryers, other kitchen equipment (including stainless steel), and vertical and horizontal surfaces where such deposits might occur with the following characteristics:

Net product quantity per can - sixteen (16) to twenty (20) ounces (actual net weight shall be within five (5) percent of labeled net weight). Each aerosol can shall be marked showing net product content.

pH: The oven cleaner (without the propellant as a component) shall have a pH, at 77°F, not less than 13.0 when tested in accordance with ASTM E70.

Delivery Rate: The aerosol oven cleaner shall have a delivery rate, at 70°F, of 1.0 to 3.5 grams per second when tested in accordance with ASTM D 3069.

Flammability: The contents of the unit container shall not be flammable as defined in 16 CFR 1500.3 (c)(6)(viii) when tested in accordance with 16 CFR 1500.45.

Test soil composition: When tested in accordance with the test procedure identified below, the aerosol oven cleaner shall completely remove a soil of the following composition:

<u>Soil composition</u>	<u>Wt., percent</u>
Corn oil (Mazola)	84
Sugar *granulated)	8
Flour (Standard, bleached)	8

Preparation of soil: While stirring, heat corn oil to 150°F to 200°F. While continuing to stir, add sugar and flour and mix thoroughly. Allow mixture to cool to room temperature before use.

Equipment: Paint brush, two porcelain enamel test panels and two stainless steel Grade 430 test panels. The test panels shall be approximately 3 inches X 3 inches. The porcelain test panels may be obtained from the Ferro Corporation, 4150 E. 56TH Street, Cleveland, OH. The stainless steel test panels may be obtained from various oven and range manufacturers.

Test procedure: Soil mixture is stirred constantly during application to panels. Using a paint brush, apply soil to the test panels in a thin film. Bake panels in a horizontal position for 20 minutes at 425°F-450°F. After panels have cooled to room temperature, place them in a horizontal position. Apply the aerosol oven cleaner to the soiled panels until the cleaner completely covers the surface of the panels. Allow panels to set for 30 minutes in a horizontal position at room temperature. Damp sponge lightly and flush with water to remove the soil. Dry panels and apply aerosol cleaner again and repeat the procedure. After damp sponging and flushing with water, the oven cleaner shall, by visual observation, completely remove all the soil on the panel and leave no visible film.

ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – BX (Twelve (12) aerosol cans per box).

NSN: 7930-00-633-9849

SWEEPING COMPOUND: Shall be sawdust-sand-water wax emulsion sweeping compound with the following characteristics:

The sweeping compound shall be a clean, homogenous mixture free from lumps and caking, and conform to the following requirements:

Requirement (%)	Min.	Max.
Volatile matter at 105°C, weight	---	12
Waxes, weight	15	20
Sand, weight	40	50
Sawdust, weight	18	---
Retained on No. 20 sieve, weight		
Based on total sand content	---	1.0
Retained on No. 8 sieve, weight		
Based on total sawdust content	---	1.0
Retained on No. 40 sieve, weight		
Based on total sawdust content	---	40.0

Matter volatile at 105°C. Weigh 35 grams of the sample in a tared weighing bottle and heat with stopper removed for 2 hours in an oven at a temperature of 105 +/-2°C. Insert stopper, cool in desiccator, and weigh. Repeat to a weight constant to within 0.1 gram. Calculate loss in weight as volatile matter. Save the dried sample for the wax and emulsifier determinations.

Wax and emulsifier. Transfer, quantitatively, the dried sample mentioned above, to an extraction thimble. Pour 150 milliliters of chloroform extract, into a tared 250 milliliter extraction flask. Assemble the extraction flask tube and condenser on a steam bath and extract for 10 cycles. Stop extraction process so as to retain the maximum volume of chloroform in the extraction flask. Connect extraction flask to a distilling condenser and distill off the chloroform using a steam bath. Remove the last trace of chloroform from the flask on the steam bath. Cool the flask in a desiccator, weigh and calculate the percentage of wax and emulsifier. Save the air-dried thimble residue for the sieve analysis. The chloroform extract shall be in solid form at a temperature below 32°C(90°F.)

Sieve test. Using the thimble residue, test shall be made using a mechanical shaker which imparts to the sieves a rotary motion and tapping action of a uniform speed of 300 +/- 15 gyrations and 150 +/- taps of the striker per minute. Sieves shall conform to ASTM E 11.

Ashing procedure. Ash the material collected on each sieve separately and that which passed through the sieves. Ash the material to constant weight, cool in a desiccator, and record the weight of the ash in each sample. Calculate the percent sand and sawdust. The sawdust content is the loss in weight during ashing.

Combustibility. The product shall not be permanently ignited and there shall be no spreading of flames on the product beyond an area of 1-1/2 inch radius from the center of the pan and shall cease within one minute after the pill is consumed when tested as follows: Loosely fill a 20 cm (8-inch) diameter metal container, such as a pie pan, to an even thickness of 13 to 19 mm (1/2 to 3/4 inch). Place a standard methenamine pill in the center of the pan. Ignite the methenamine pill with a match in a draft free room.

Flash point. The flash point of the oil and waxes shall be a minimum of 125°C (257°F) when tested in accordance with ASTM D 93.

ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – CO (one hundred (100) pounds per container).

NSN: 7930-00-664-7483

CLEANING SOLUTION, PORCELAIN: The product shall be a one-step Ready to Use (RTU) porcelain cleaner designed to clean porcelain, ceramic tiles and related surfaces. The material shall consist of wetting agents, corrosion inhibitors and 5 – 10% wt hydrochloric acid. The solution shall be clear and have no evidence of sediment.

Shelf life code: 7. Maximum age on delivery shall not exceed five (5) months from date of manufacture. Date of re-inspection shall be thirty-six (36) months after date of manufacture.

Unit of issue – QT (Thirty-two (32) ounce container).

NSN: 7930-00-721-8592

SCOURING POWDER: The product shall be scouring powder with bleach. The powder is suitable for use in cleaning porcelain surfaces (vitreous types), painted surfaces, floors, marble, and for general kitchen use. The scouring powder compound shall be a free-flowing powder, white or of an attractive pleasing color, scented or unscented, and of uniform composition.

The material shall conform to the chemical requirements of Table 1.

Table 1 Chemical Requirements		
	Max %	Min %
Matter Volatile At 105 +/-2°C, Max, %	11.0	
Anhydrous Synthetic Detergent (Salt-Free), % ^{/A}	7.0	1.7
Phosphates Calculated As P2O5, Min, % ^{/B}		1.1
Free Alkali As Naoh, Max,%	0.1	
Matter Insoluble In Water (Siliceous), %	95	60
Available Chlorine As Cl, Min, %		0.3

^{/A} Soap shall not be present.

^{/B} The phosphates may consist of trisodium phosphate, anhydrous, monohydrate or dodecahydrate; tetrasodium pyrophosphate; or sodium tripolyphosphate.

The fineness of the abrasive shall conform to the requirements of Table 2.

Table 2 Fineness of Insoluble Siliceous Matter	
	Max %
Retained on:	
No. 60 (250-um) Sieve	0.1
No. 100 (150-um) Sieve	0.5
No. 200 (75-um) Sieve	10.0
Through:	
No. 325 (45-um) Sieve	85.0

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of Issue – BX – (Thirty (30) each, twenty-one (21) ounce containers per box).

NSN: 7930-00-880-4454

DISHWASHING COMPOUND, HAND: NIB P/N 1064011, HAND DISHWASHING COMPOUND (Kitchen Mate), or equal, with the following characteristics:

The product shall be a concentrated, nonabrasive, synthetic organic, mobile, stable, single-phase liquid compound. It shall be mildly perfumed, free of any objectionable odor, sediments, and suspended particles. The product shall have 26 percent synthetic detergents. It shall be completely soluble in 20 grains per gallon hard water. It shall have 1.0 percent maximum total alkalinity, 6.0 percent maximum sodium chloride and be free rinsing.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Approx Wt. %
Nonylphenoxypolyethoxy Ethanol	9016-45-9	11
Dodecylbenzenesulfonix Acid	27176-87-0	10

pH: approx – 8

Specific Gravity: - approx. 1.03 gm/cc.

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – BX (Six (6) each, one (1) gallon containers per box).

NSN: 7930-00-899-9534

DISHWASHING COMPOUND, HAND: NIB P/N 1064012, HAND DISHWASHING COMPOUND (Kitchen Mate), or equal with the following characteristics:

The product shall be a concentrated, nonabrasive, stable, single-phase liquid compound. It shall be mildly perfumed, free of any objectionable odor, sediments, and suspended particles. The product shall have 26 percent synthetic detergents. It shall be completely soluble in 20 grains per gallon hard water. It shall have 1.0 percent maximum total alkalinity, 6.0 percent maximum sodium chloride and be free rinsing.

The product shall also have the following physical properties and contain the materials in the quantities specified.

Component	CAS #	Approx Wt. %
Nonylphenoxypolyethoxy Ethanol	9016-45-9	11
Dodecylbenzenesulfonix Acid	27176-87-0	10

pH: approx – 8

Specific Gravity: - approx. 1.03 gm/cc.

The product shall be biodegradable by EPA/OECD test methods.

All items packed in open head pails of 4 to 6 gallon capacity shall have the pails marked with Child Drowning Warning Labels to comply ASTM F 1615. ASTM standards are available from ASTM, 100 Barr Harbor Dr., West Conshohocken, PA 19428

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – CN (five (5) gallon can).

NSN: 7930-00-901-2088

GLASS CLEANER: National Industries for the Blind, Houston, TX. Ready-to-use liquid, anti-fogging glass cleaner, or equal with the following requirements and characteristics:

The product shall be a ready-to-use liquid, antifogging glass cleaner for cleaning and polishing of glass surfaces, plastics, ceramics, chrome, painted surfaces and stainless steel.

VOC Compliance. The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The glass cleaner shall have a minimum biobased content of 49% and shall be based on the amount of qualifying biobased carbon in the finish product as a percent of the weight (mass) of the total organic carbon in the finished product as specified by the Department of Agriculture Designation of Biobased Items for Federal Procurement: Final Rule (Federal Register, Vol. 71, No. 51, March 16, 2006.

Flammability. The glass cleaner shall not be flammable.

Flash point. The glass cleaner flash point shall not be less than 120°F when tested as specified in ASTM D 56.

Toxicity. The glass cleaner when used as directed on the label, the cleaner shall not be toxic as defined in the Federal Hazardous Substances Act Regulations 16 CFR 1500.3(6)(5).

pH. The glass cleaner of a 1 percent solution in distilled water shall be not less than 6.5 nor more than 11.0 when tested as specified in ASTM E 7.

Antifogging performance. The glass cleaner shall prevent steam condensation on a glass mirror when tested as flows: Clean a glass mirror at least 6 inches by 12 inches with cheesecloth in solvent baths in the following order:

- a) mineral spirits (naphtha)
- b) dipropylene glycol monomethyl ether
- c) isopropanol and
- d) water

After the water rinse, dry the glass mirror with cheesecloth. To insure complete cleanliness of the mirror, expose it to live steam. A white highly reflective appearance is taken on by the glass in those areas not thoroughly clean. (If not completely clean, the mirror should be exposed to the entire solvent cleaning procedure again.) Drape one-half of the mirror with a towel and apply the glass cleaner to the other half of the mirror. Wipe until the surface is just damp and then let dry. Hold the mirror 6 inches above the steam source and move the mirror back and forth in order to get an even distribution of the steam. The side treated with the glass cleaner shall show no steam condensation when compared to the untreated side.

Cleaning performance. When tested by CSMA Test Method DDC-09 for Glass Cleaners, the glass cleaner shall be equal or better in performance than the reference glass cleaner in cleaning, streaking and smearing.

<u>Reference cleaner.</u>	<u>Ingredient</u>	<u>Weight percent</u>
	isopropanol	4.0
	dipropylene glycol	
	monomethyl ether	4.0
	ammonium hydroxide (28% in water)	1.0
	Pluronic F 108	0.1
	distilled water	90.0

Copies of ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. Phone: 610-832-9585, Fax: 610-832-9555, Web site: www.astm.org, e-mail: service@astm.org.

CSMA methods are available from the Chemical Specialties Manufacturers Association, Inc., Attn: Member Services Dept., 1913 Eye Street, NW, Washington, DC 20006.

Shelf life code: 7. Maximum age on delivery shall not exceed five (5) months from date of manufacture. Date of re-inspection shall be thirty-six (36) months after date of manufacture.

Unit of issue – BX (Six (6) each, one (1) gallon containers per box).

NSN: 7930-00-926-5280

DETERGENT, GENERAL PURPOSE: General purpose ready-to-use, spray-on, wipe-off, hard surface cleaner with the following characteristics:

The product shall be a clean, homogeneous, ready-to-use solution with no sediment or foreign material. It shall be a liquid detergent containing no phosphates, abrasives, or dyes. It shall be non-abrasive and non-flammable.

VOC Compliance. The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The general purpose cleaner shall have a minimum biobased content of 39% and shall be based on the amount of qualifying biobased carbon in the finish product as a percent of the weight (mass) of the total organic carbon in the finished product as specified by the Department of Agriculture Designation of Biobased Items for Federal Procurement: Final Rule (Federal Register, Vol. 71, No. 51, March 16, 2006).

Cleaning performance

The detergent shall have a cleaning efficiency of 80% when tested in accordance with ASTM D 4488, Method A5, except as follows:

- a) Used crankcase motor oil shall not be used as an ingredient of the particulate soil mixture.
- b) After completing the 10 cycles, during the cleaning test, the sponge shall be inverted in the sponge holder and another 5 cycles shall be completed before rinsing the tile in tap water.

Copies of ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. Phone: 610-832-9585, Fax: 610-832-9555, Web site: www.astm.org, e-mail: service@astm.org.

Shelf life code: 7. Maximum age on delivery shall not exceed five (5) months from date of manufacture. Date of re-inspection shall be thirty-six (36) months after date of manufacture.

Unit of issue – BX (forty-eight (48) each, sixteen (16) ounce containers per box).

NSN: 7930-00-929-1220

DETERGENT, LAUNDRY: Shall be in accordance with Federal Specification P-D-245F, dated July 11, 1990 and Amendment-1, dated October 11, 1991 with the following characteristics and requirements:

Type I - Controlled sudsing and low phosphate.

Labeling and marking in accordance with Federal Specification P-D-245F, paragraph 3.5.

NOTICE: This product is used to launder military battle uniforms. Optical brighteners and dyes are not permitted (see Amendment-1). Strict adherence to specification requirements is critical.

EXCEPTIONS TO THE SPECIFICATION:

1) Paragraph 3.5: At the supplier's option the following may be used: In lieu of the specified container markings, the supplier may place the marking "SEE INSIDE CONTAINER FOR PRODUCT DESCRIPTION, PRODUCT USE DIRECTIONS AND PRECAUTIONS" on the outside of the container. All other markings required under paragraph 3.5.1 may be placed inside the container.

2) Delete section 5 and substitute the following:

PREPARATION FOR DELIVERY: The item(s) shall be packaged and packed in accordance with the latest revision of ASTM D 3951, Standard Practice for Commercial Packaging. Copies of ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. Phone: 610-832-9585, Fax: 610-832-9555, Web site: www.astm.org, e-mail: service@astm.org.

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – CO (Fifty (50) pounds net per container).

NSN: 7930-00-935-3794

POLISH, PLASTIC: Shall be in accordance with Federal Specification P-P-560B, dated June 2, 1981; Amendment 3, dated July 15, 1999; Notice 2, dated Oct 28, 2005 and QPL-P-P-560-12, Notice 3, dated May 11, 2007, with the following characteristics:

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Approx Wt. %
Water	7732-18-5	60-70

Stoddard Solvent	8052-41-3	15-25
Calcium Carbonate	471-34-1	<10

Type I - liquid.

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – BX (Twenty-four (24) each, sixteen (16) ounce containers per box).

NSN: 7930-00-985-6911

DETERGENT, GENERAL PURPOSE (LIQUID, NONIONIC): Shall conform with Military Specification MIL-D-16791G, dated January 26, 1990 and Amendment-1, January 15, 1993 with the following characteristics:

Type I - Water-soluble

All items packed in open head pails of 4 to 6 gallon capacity shall have the pails marked with Child Drowning Warning Labels to comply with ASTM F 1615. ASTM standards are available from ASTM, 100 Barr Harbor Dr., West Conshohocken, PA 19428.

Shelf life code: 7. Maximum age on delivery shall not exceed five (5) months from date of manufacture. Date of re-inspection shall be thirty-six (36) months after date of manufacture.

Unit of issue – CN (five (5) gallon can).

NSN: 7930-01-117-9848

DETERGENT, LAUNDRY: ECOLAB INC., LAUNDRY NEUTRAL DETERGENT PLUS, P/N 6100173 or equal with the following requirements and characteristics.

The product shall be a concentrated liquid neutral detergent that penetrates and lifts oily soils. It shall whiten and brighten all fabrics. Effective over a wide range of temperatures. Nonphosphate.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Approx Wt. %
Tea-Dodecylbenzenesulfonate	27323-41-7	3
Alcohols, C12-16, Ethoxylated	68551-12-2	50
Hexylene Glycol	107-41-5	5 - 20

pH – approx – 5-9

Specific Gravity: - approx. 0.895 – 1.015 gm/cc

Shelf life code: 7. Maximum age on delivery shall not exceed five (5) months from date of manufacture. Date of re-inspection shall be thirty-six (36) months after date of manufacture.

Unit of issue – DR (Fifteen (15) gallon drum).

NSN: 7930-01-177-5119

DISHWASHING COMPOUND, HAND: Ecolab Inc., SOLITAIRE, P/N 17301 or equal, with the following requirements and characteristics:

Concentrated solid detergent dissolves greasy, heavy soils; safe for all types dishes, glassware, pot, pans, and silverware. The product shall be designed for manual washing of pots, pans, glasses, dishes and silverware. The product shall be compatible with the Ecolab Solitaire Dispenser.

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The products residue shall not be classified as hazardous waste as defined by 40CFR 261.3.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Wt. %
Sodium Dodecylbenzene Sulfonate	25155-30-0	Approx 31
Dodecanamide, N-(2-Hydroxyethyl)-	142-78-9	5-20
Poly(Oxy-1,2-Ethanediy), .Alpha.-Sulfo-.Omega.-Hydroxy-, C10-16-Alkyl Ethers, Sodium Salts	68585-34-2	5-20
Amides, Coco, N-[3-Dimethylamino)Propyl], N-Oxides	68155-09-9	5-20
Acetic Acid, Sodium Salt	127-09-3	1-5
Ethanol	64-17-5	1-5

pH – Approx 8.3 at 1%

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue - BX (Four (4) each, five (5) pound capsules per box).

NSN: 7930-01-183-8585

FINISH, FLOOR, NONBUFFING: Shall be a water emulsion general use, high durability, slip resistant, detergent resistant floor finish with the following characteristics:

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

Total solids (nonvolatile content) shall be not less than 15 percent; any sediment present shall be soft and free from grit and shall not exceed 0.2 percent by volume; pH shall not be greater than 10.0; shall form an intact film at 50°F; the finish shall develop no offensive odor, exhibit no creaming, gelling or separation while in storage during the shelf life. For use on non-wood and sealed wood floors.

Slip Resistance- Shall meet requirements for providing nonhazardous walkways as determined by ASTM Method D 2047.

All items packed in open head pails of 4 to 6 gallon capacity shall have the pails marked with Child Drowning Warning Labels to comply ASTM F 1615. ASTM standards are available from ASTM. 100 Barr Harbor Dr., West Conshohocken, PA 19428.

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – CO (five (5) gallon container).

NSN: 7930-01-236-7280

DETERGENT, LAUNDRY: Shall be in accordance with Department of the Navy Purchase Description NCTRF/PD 11-85C dated March 24, 1993 with the following characteristics and requirements:

EXCEPTION TO Navy Purchase Description NCTRF/PD 11-85C:

Delete Paragraph 5.1 Packing. Add the following:

5.1 Packing. The product shall be furnished in the specified quantities in bailless polyethylene pails conforming to the Department of Transportation Regulations. If the product formulation is considered a hazardous article, it shall be contained in pails conforming to UN certified Performance Oriented Packaging requirements. The pails shall be stackable and when empty and with the lids removed they shall be capable of nesting within each other to conserve space. Each shipping pail shall contain a graduated measuring scoop capable of holding up to sixteen (16) ounces (dry measure) marked with the first five dosage levels for fresh water laundering (see 3.5). This requirement may be met by either affixing a printed graduated scale onto the measuring scoop or by furnishing a graduated scale inherent to the scoop (imparted during molding of the scoop).

The test reports showing compliance with packaging requirements shall be made available to GSA contract administration/management representatives upon request.

All items packed in open head pails of 4 to 6 gallon capacity shall have the pails marked with Child Drowning Warning Labels to comply with California Assembly Bill No. 2942 (Chapter 43 of the California Statutes of 1992), when these items are for delivery to any facility of the General Services Administration or to any addressee in the State of California.

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – CO (Forty (40) pound container).

NSN: 7930-01-294-1115

SCOURING POWDER: The product shall be scouring powder without bleach. The powder is suitable for use in cleaning porcelain surfaces (vitreous types), painted surfaces, floors, marble, and for general kitchen use. The scouring powder compound shall be a free-flowing powder, white or of an attractive pleasing color, scented or unscented, and of uniform composition.

The material shall conform to the chemical requirements of Table 1.

Table 1 Chemical Requirements		
	Max %	Min %
Matter Volatile At 105 +/-2°C, Max, %	11	
Anhydrous Synthetic Detergent (Salt-Free), % ^{/A}	7	1.7
Phosphates Calculated As P2O5, Min, % ^{/B}		1.1
Free Alkali As Naoh, Max,%	0.1	
Matter Insoluble In Water (Siliceous), %	95	60

^{/A} Soap shall not be present.

^{/B} The phosphates may consist of trisodium phosphate, anhydrous, monohydrate or dodecahydrate; tetrasodium pyrophosphate; or sodium tripolyphosphate.

The fineness of the abrasive shall conform to the requirements of Table 2.

Table 2 Fineness of Insoluble Siliceous Matter	
Retained on:	Max %
No. 60 (250-um) Sieve	0.1

No. 100 (150-um) Sieve	0.5
No. 200 (75-um) Sieve	10.0
Through:	
No. 325 (45-um) Sieve	85.0

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of Issue – DZ – (Twelve (12) each, fourteen (14) ounce containers per box).

NSN: 7930-01-294-5523

CLEANING COMPOUND, SOLVENT-DETERGENT: ZEP Manufacturing Company, ZEP 40, P/N 014401 or equal with the following characteristics and requirements:

The product shall be a heavy duty aerosol foaming cleaner for all non-conductive surfaces. Shall be capable of removing soil, smudges, grease, finger marks and streaks from nonconductive surfaces such as show cases, refrigerators, chrome, some windows and windshields, mirrors, soft drink machine doors, table tops, desks, enamel surfaces, chrome, stainless steel, and tile. Low temperature formula eliminates cold weather streaking problems. Cleans any surface not normally harmed by water. Not recommended for film-tinted windows or Plexiglas.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Wt %
Ethanol	64-17-5	10-20
Hydrocarbon Propellant; Blend Of Propane and N-Butane	74-98-6; 106-97-8	5-15
Ethylene Glycol Monobutyl Ether; 2-Butoxyethanol; Butyl Cellosolve	111-76-2	1-5
Isopropyl Alcohol; Ipa; Dimethylcarbinol; 2-Propanol	67-63-0	<3

Contains no phosphates or fluorocarbons.
 Not flammable by CSMA flame extension test.
 pH – approx – 11.0
 Specific Gravity - Approx 1.1
 Can Size - 24 oz.
 Net Weight - 1 lb. 6.5 oz. Avdp. (638 g)

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – DZ - (Twelve (12) each, twenty-four (24) ounce aerosol cans).

NSN: 7930-01-314-6133

CLEANING COMPOUND, SOLVENT-DETERGENT: Penetone Corp., CITRIKLEEN HD, P/N 185915; or Rite Kem, CITRUS KLEAN; or equal, with the following requirements and characteristics:

The product shall be a clear, concentrated, d-limonene based, aqueous emulsion cleaner with surfactants to clean soils such as heavy grease, oils, carbonized deposits, tar, lubes, waste fats and rubber marks. The product shall be biodegradable and shall contain no petroleum hydrocarbons, chlorinated materials, bleach, ammonia, phosphates, harsh acids or alkalines.

The product shall be biodegradable by EPA/OECD test methods.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Wt. %, approx
D'limonene	5989-27-5	30
Monoethanolamine	141-43-5	10
Diethanolamine	111-42-2	2

Flash Point: Approx 125^oF PMCC
Approx 155^oF COC

Boiling Point – Approx - 212 ^oF
Specific Gravity – Approx - 0.97gm/cc @ 75 ^oF
pH – Approx - 11.2
Wt % Organic Volatiles – Approx 50

The drums used for packaging this product shall be new and unused.

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – DR (Fifty-five (55) gallon drum).

NSN: 7930-01-316-6008

ABSORBENT MATERIAL, OIL AND WATER: New Pig Corp., PIG PAN, P/N: 2410PP or equal with the following requirements and characteristics:

The item shall be a pan that absorbs up to 0.75 gal/pan. The product shall be constructed of:

Pan: high-density polypropylene

Filler: polypropylene

Cover: polypropylene

The item shall have the approximate dimensions of 10.5" L x 10.5" W x 3" D.

The item shall also be in compliance with the following:

Plastic absorbent material shall contain 25 to 100 percent recovered materials as specified by the EPA Comprehensive Guideline for Procurement of Products Containing Recovered Materials; Recovered Materials Advisory Notice III; Final Rule (40 CFR Part 247), Federal Register/ Vol. 65, No.12/Wednesday, January 19, 2000/Rules and Regulations.

Unit of issue – BX (Twenty-four (24) pans per box).

NSN: 7930-01-326-8110

GLASS CLEANER: National Industries for the Blind, Houston, TX. Ready-to-use liquid glass cleaner for cleaning and polishing of glass surfaces, plastics, ceramics, chrome, painted surfaces and stainless steel with the following characteristics:

Flammability: The glass cleaner shall not be flammable.

Flash point: The glass cleaner flash point shall be not less than 140°F when tested as specified in ASTM D 56.

VOC Compliance. The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

pH. The glass cleaner of a 1 percent solution in distilled water shall be not less than 6.5 nor more than 11.0 when tested as specified in ASTM E 7.

The glass cleaner shall have a minimum biobased content of 49% and shall be based on the amount of qualifying biobased carbon in the finish product as a percent of the weight (mass) of the total organic carbon in the finished product as specified by the Department of Agriculture Designation of Biobased Items for Federal Procurement: Final Rule (Federal Register, Vol. 71, No. 51, March 16, 2006.

Cleaning performance: When tested by CSPA Test Method DDC-09 for Glass Cleaners, the glass cleaner shall be equal or better in performance than the reference glass cleaner in cleaning, streaking and smearing.

Reference cleaner

Ingredient	Weight percent
Isopropanol	4.0
Dipropylene Glycol Monomethyl Ether	4.0
Ammonium Hydroxide (28% In Water)	1
Pluronic F 108	0.1
Distilled Water	90.9

CSPA test methods are available from:
Consumer Specialty Products Association
900 17th St. NW, Suite 300
Washington, DC 20006
Phone: 202.872.8110
Fax: 202.872.8114

ASTM standards are available from the American Society for testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

Shelf life code: 7. Maximum age on delivery shall not exceed five (5) months from date of manufacture. Date of re-inspection shall be thirty-six (36) months after date of manufacture.

Unit of issue – DZ (twelve (12) each, sixteen (16) ounce pump-spray containers per box).

NSN: 7930-01-346-5280

CLEANER, INDUSTRIAL, MULTIPURPOSE: Permatex Inc., SPRAY NINE P/N 26832, MULTI-PURPOSE, GERMICIDAL CLEANER or equal with the following requirements and characteristics:

The product shall be non-toxic, non-flammable, and non-combustible. It shall be capable of being used on most surfaces except wool, including plastics, metal, fiberglass, porcelain and rubber. It shall not contain petroleum solvents, bleach or acids. It shall remove carbon, dirt, ink, petroleum residues, cooking fats and fresh paint. It shall kill viruses within 30 seconds contact time, kills bacteria within 45 seconds contact time, kills fungi within 3 minutes contact time.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Approx Wt. %
Ethoxylated C9-C11 Alcohols	68439-46-3	1-3
2-Butoxyethanol	111-76-2	1-4

Flash Point – Not less than 180°F TCC

pH – approx - 12.75.

Specific Gravity – approx - 1.019

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The product shall be registered and labeled in compliance with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended in accordance with 40 Code of Federal Regulations (CFR) 152-180. This act and regulations promulgated there under is administered by the EPA. The containers shall be labeled with contents and directions for use, in accordance with 40 CFR 156-157.

The product shall be registered as effective against the following:

Animal Pathogenic Bacteria (G- and G+ Vegetative)

Pseudomonas Spp.

Animal Pathogenic Fungi

Candida Albicans

Rhinovirus Type 37

Adenovirus Type 2

Herpes Simplex Virus I

Herpes Simplex Virus II

Influenza A2

Respiratory Syncytial Virus

Hiv-I (Human Immunodeficiency Virus)

Mold/Mildew

CLEANING PERFORMANCE:

The product shall clean hard surfaces effectively by demonstrating that it performs as well as, or better than, the standard test product, as measured by test method A5 “particulate and oily soil/vinyl tiles” specified in the most current version of ASTM D4488, “Standard Guide for Testing Cleaning Performance of Products Intended for Use on Resilient Flooring and Washable Walls.”

Standard Test Product:

SPRAY NINE P/N 26832, MULTI-PURPOSE, GERMICIDAL CLEANER

Copies of ASTM test methods may be obtained from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959 Website: <http://www.astm.org>

Unit of issue - BX (twelve (12) each, thirty-two (32) ounce trigger spray bottles per box).

NSN: 7930-01-346-9148

CLEANING COMPOUND, SOLVENT-DETERGENT: Sunshine Makers Inc. P/N 10224 or equal. The following description reflects the characteristics and level of quality that will satisfy the government’s needs for this NSN.

The product shall be a fibrous, rectangle, non-abrasive scrubbing pad infused with a micro-encapsulated concentrated cleaner. The scrubbing pad shall be capable of being used with water for manual scrubbing operations. The dimensions of each pad shall be approximately 3 x 5 inches.

The product used to infuse the non-abrasive scrubbing pad shall meet the following chemical and physical requirements:

The product shall be a non-toxic, multipurpose cleaner concentrate. The product shall not contain any materials listed under the EPA's National Emission Standards for Hazardous Air Pollutants (NESHAP).

The product shall not exceed the volatile organic compound (VOC) limit as established by the California Air Resource Board (CARB) for general purpose cleaners, non-aerosol. The product shall comply with the following California Code of Regulations (CCR) in its entirety, CCR Title 17; Division 3; Chapter 1; Subchapter 8.5; Article 2. If the product requires dilution to meet these requirements, as cited in CCR 94509(b), the dilution factor used shall be reported.

The product shall not contain ammonia, petroleum distillates or citrus oil/extracts (terpenes)

Unit of issue - BX (Twenty-four (24) each scrubbing pads per box).

NSN: 7930-01-350-7033

CLEANING COMPOUND, SOLVENT-DETERGENT: Penetone Corp., CITRIKLEEN AEROSOL, P/N 186084 or equal, with the following requirements and characteristics:

The product shall be an aerosol, d'limonene based, aqueous emulsion cleaner with surfactants to clean soils such as heavy grease, oils, carbonized deposits, tar, lubes, waste fats and rubber marks. The product shall be biodegradable and shall contain no petroleum hydrocarbons or chlorinated materials.

The product shall be biodegradable by EPA/OECD test methods.

The product shall also have the following physical properties and contain the materials in the quantities specified:

Component	CAS #	Wt. %, approx
D'limonene	5989-27-5	30
Diethylene Glycol Monobutyl ether	112-34-5	5-10

Flash Point: Approx 125^oF PMCC
Approx 165^oF COC

Boiling Point – Approx 212^oF
Specific Gravity – Approx 0.98 @ 75^oF
pH – Approx 10.2
Viscosity - <20 cs @ 20^oC
Wt % solids – Approx 15.6

Shelf life code: 7. Maximum age on delivery shall not exceed five (5) months from date of manufacture. Date of re-inspection shall be thirty-six (36) months after date of manufacture.

Unit of issue – BX (Twenty-four (24) each, sixteen and one-half (16.5) ounce aerosol cans per box).

NSN: 7930-01-350-7035

CLEANING COMPOUND, SOLVENT-DETERGENT: Penetone Corp., CITRIKLEEN, P/N 185015 or equal with the following requirements and characteristics:

The product shall be a clear, concentrated, biodegradable, d'limonene based, aqueous emulsion cleaner with surfactants to clean soils such as heavy grease, oils, carbonized deposits, tar, lubes, waste fats and rubber marks. The product shall contain no petroleum hydrocarbons or chlorinated materials.

The product shall be biodegradable by EPA/OECD test methods.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Wt. %, approx
D'limonene	5989-27-5	30
Monoethanolamine	141-43-5	3

Flash Point: Approx 125°F PMCC
Approx 165°F COC

Boiling Point – Approx 212 °F
Specific Gravity – Approx 0.98 @ 75 °F
pH – Approx 10.2
Viscosity - <20 cs @ 20°C
Wt % solids – Approx 15.6

Cleaning Performance Requirement

The product shall clean hard surfaces effectively by demonstrating at least 75% cleaning efficiency as measured by test methods A5 “particulate and oily soil/vinyl tiles” or A6 “oil, carbon, black and clay/white enamel painted stainless-steel panels” specified in the most current version of ASTM D4488, “Standard Guide for Testing Cleaning Performance of Products Intended for Use on Resilient Flooring and Washable Walls

Copies of ASTM test methods may be obtained from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959 Website: <http://www.astm.org>

The drums used for packaging this product shall be new and unused.

Shelf life code: 7. Maximum age on delivery shall not exceed five (5) months from date of manufacture. Date of re-inspection shall be thirty-six (36) months after date of manufacture.

Unit of issue – DR (Fifty-five (55) gallon drum).

NSN: 7930-01-353-6414

ABSORBENT MATERIAL, OIL AND WATER: WYK Sorbent Products, P/N: 640 or equal, with the following requirements and characteristics:

The item shall be an absorbent pillow with nominal dimensions of 10 X 18 X 2 inches. The absorbent material shall be composed of amorphous mineral silicates. The pillow shall be capable of absorbing both water and oil based spills. All ingredients shall be non-hazardous, inert, non-toxic and non-biodegradable.

Unit of issue – BX (Twenty (20) each pillows per box).

NSN: 7930-01-356-9205

CLEANING SOLUTION, PORCELAIN: DIAL Corporation, SOFT SCRUB WITH BLEACH, P/N 01601 or equal with the following requirements and characteristics:

The product shall be a mild abrasive multipurpose cleaner for bathrooms and kitchens. The cleaner shall be safe for use on aluminum, fiberglass, plastics and appliance enamel.

The product shall be registered and labeled in compliance with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended in accordance with 40 Code of Federal Regulations (CFR) 152-180. This act and regulations promulgated there under is administered by the EPA.

The cleaner shall have the following approximate properties and contain the materials in the quantities specified below:

Component	CAS #	Wt. %
Calcium Carbonate	1317-65-3	5-20%
Aluminum Distearate	300-92-5	0-1%
Sodium Hypochlorite	7681-52-9	0.5-2%
Sodium Hydroxide	1310-73-2	<1%

pH – 12.7

Specific Gravity – 1.3

Viscosity – 10000 – 15000cP

Shelf life code: 7. Maximum age on delivery shall not exceed five (5) months from date of manufacture. Date of re-inspection shall be thirty-six (36) months after date of manufacture.

Unit of issue – BX (Twelve (12) each, twelve (12) ounce net weight bottles per box).

NSN: 7930-01-356-9206

CLEANING SOLUTION, PORCELAIN: DIAL Corporation, SOFT SCRUB WITH BLEACH, P/N 01602 or equal with the following requirements and characteristics:

The product shall be a mild abrasive multipurpose cleaner for bathrooms and kitchens. The cleaner shall be safe for use on aluminum, fiberglass, plastics and appliance enamel.

The product shall be registered and labeled in compliance with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended in accordance with 40 Code of Federal Regulations (CFR) 152-180. This act and regulations promulgated there under is administered by the EPA.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Wt. %
Calcium Carbonate	1317-65-3	5-20%
Aluminum Distearate	300-92-5	0-1%
Sodium Hypochlorite	7681-52-9	0.5-2%
Sodium Hydroxide	1310-73-2	<1%

pH – approx – 12.7

Specific Gravity: - approx. 1.3 gm/cc

Viscosity – 10000 – 15000cP

Shelf life code: 7. Maximum age on delivery shall not exceed five (5) months from date of manufacture. Date of re-inspection shall be thirty-six (36) months after date of manufacture.

Unit of issue – BX (Nine (9) each, twenty-four (24) fluid ounce bottles per box).

NSN: 7930-01-359-9229

CLEANING SOLUTION, PORCELAIN: Caljen Sales Co. P/N CJ06

(JEN-BRITE SCUM CLEANER); or Rite-Kem, This-N-That; or equal, with the following requirements and characteristics:

The product shall be a deodorizing, concentrated, alkaline, one-step cleaner for cleaning scum in shower stalls, bath tubs, toilet bowls, wash basins and other similar surfaces. The product shall have a specific gravity of 1.02 to 1.09. The cleaner shall be non-flammable.

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – BX (four (4) one (1) gallon bottles per box).

NSN: 7930-01-360-8050

POLISH, METAL: Caljen Sales Co., GLEEM STAINLESS STEEL CLEANER P/N CJ01 or Rite-Kem, Stainless Steel Maintainer, or equal, with the following requirements and characteristics:

Concentrated (12 parts water/1 part polish), non-flammable, non-hazardous stainless steel and furniture polish. Can be used on stainless steel, chrome, formica, aluminum, plexiglass, tile, vinyl and enameled surfaces. Contains no silicone, acid or wax.

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue - BX (Four (4) each, one (1) gallon bottles per box).

NSN: 7930-01-363-8631

ABSORBENT MATERIAL, OIL AND WATER: New Pig Corp., Universal Mat, P/N MAT 203 or Ecolab P/N 92652168 or equal with the following requirements and characteristics:

- Each pad shall be 15 inch W X 20 inch L, 100 pads per bag
- Perforations centered by width
- Multiple layers held together with thermal bond points.
- Absorb water, oils, acids/bases, coolants and solvents.
- 100 pads absorb up to 24 gallons.
- Flame resistant
- Composition, greater than 97% wt. polypropylene

The item shall also be in compliance with the following.

Plastic absorbent material shall contain 25 to 100 percent recovered materials as specified by the EPA Comprehensive Guideline for Procurement of Products Containing Recovered Materials; Recovered Materials Advisory Notice III; Final Rule (40 CFR Part 247), Federal Register/ Vol. 65, No.12/Wednesday, January 19, 2000/Rules and Regulations.

Unit of issue – BG (one hundred (100) each, pads per bag)

NSN: 7930-01-367-0987

CLEANING COMPOUND, TOILET BOWL: NIB Rochester, XLD 130 TOILET BOWL CLEANER or equal, with the following characteristics:

The product shall be formulated with detergents, cleaning agents and silica. The cleaner shall attack urinary salts and deliver thorough cleaning action with a pleasant fragrance. It shall not contain caustic or harsh acids. Safe for plumbing fixtures, pipes and drains.

The product shall be biodegradable by EPA/OECD test methods.

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – BX (one-hundred (100) each, fourteen (14) gram water soluble packets per box).

NSN: 7930-01-367-0988

DETERGENT, LAUNDRY: NIB, XLD Laundry Detergent with bleach (Meterpak Inc. P/N XLD #131) or equal with the following requirements and characteristics:

The product shall be a concentrated laundry detergent with bleach and enzymes. It shall have a lemon fragrance.

The product shall be biodegradable by EPA/OECD test methods.

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – BX (Fifty (50) each, fifty-six (56) gram water soluble packets per box).

NSN: 7930-01-367-0994

CLEANING SOLVENT, GENERAL PURPOSE: Dysol Inc. P/N DS-108, with the following characteristics:

The product shall clean hydrocarbon soils, adhesives, epoxies, sealants, inks, dyes and common shop contaminants. It shall evaporate at room temperature leaving a clean surface ready for painting, coating, bonding, sealing or final assembly.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Approx Wt. %
Ethyl Lactate	97-64-3	60-70
Petroleum Distillate, Aliphatic	64742-48-9	10-30
Propylene Glycol N-Propyl Ether	1569-01-3	10-20

Specific gravity (water = 1): 0.950

Boiling point: 335°F (168°C)

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – BX (twenty-four (24) each, sixteen (16) ounce squeeze bottles per box).

NSN: 7930-01-367-2907

DETERGENT, LAUNDRY: NIB Rochester, XLD 117-30 Laundry Detergent or equal, with the following requirements and characteristics:

The product shall clean, freshen and be gentle on fine fabrics. It shall work effectively in hot or cold water. Lemon fragrance. For small loads.

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – BX (one hundred (100) each, one (1) ounce packets per box).

NSN: 7930-01-367-2908

DETERGENT, LAUNDRY: NIB (XLD LAUNDRY DETERGENT, NO BLEACH(Meterpak P/N 117-56) or equal with the following requirements and characteristics:

The product shall be a phosphate free laundry detergent. It shall be gentle on fine fabrics, and lemon scented. It shall work effectively in hot or cold water.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #
Sodium Dodecyl Benzene Sulphonate	25155-30-0
Sodium Metasilicate	6834-92-0

pH – approx – 1% solution – 9.0

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue - BX (Fifty (50)each, fifty-six (56) gram packets per box).

NSN: 7930-01-370-2087

DISHWASHING COMPOUND, MACHINE: Ecolab Inc., SOLID RINSE DRY, P/N: 10165 or equal with the following requirements and characteristics:

The product shall be a concentrated rinse additive in a two pound, solid capsule form. The capsule shall be compatible with the Ecolab Rinse Miser Dispenser. The additive shall be designed for use in automatic dishwashers and provide a streak free, spotless rinse. The additive shall be suitable for use in hardwater applications.

The product shall also have the following physical properties and contain the materials in the quantities listed:

Component	CAS #	Approx Wt. %
Alcohols, C12-15, Ethoxylated	68131-39-5	1-5
Urea	57-13-6	5-20

pH: approx – 7

Shelf life code: 7. Maximum age on delivery shall not exceed five (5) months from date of manufacture. Date of re-inspection shall be thirty-six (36) months after date of manufacture.

Unit of issue – BX (Two (2) each, thirty-two (32) ounce capsules per box).

NSN: 7930-01-373-8844

CLEANING COMPOUND, SOLVENT-DETERGENT: Lighthouse for the Blind, St. Louis, SO-SURE POWER GREEN, P/N 1064091, or equal, with the following characteristics:

The product shall be a concentrated, non-abrasive, non-hazardous, non-flammable, non-corrosive, and biodegradable general purpose cleaner/degreaser.

The multipurpose cleaner shall have a minimum biobased content of 56% and shall be based on the amount of qualifying biobased carbon in the finish product as a percent of the weight (mass) of the total organic carbon in the finished product as specified by the Department of Agriculture Designation of Biobased Items for Federal Procurement: Final Rule (Federal Register, Vol. 71, No. 51, March 16, 2006).

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Approx Wt. %
Sodium Citrate	68-04-2	1-5

pH: approx - 10
 Specific Gravity: - approx. 1.030 gm/cc.

Performance Requirement:

Cleaning performance shall be demonstrated using the latest edition of ASTM D4488, Standard Guide for Testing Cleaning Performance of Products Intended for Use on Resilient Flooring and Washable Walls. The cleaning performance tests that are outlined in Annexes A2, A3 and A5 shall be used. Each test shall be conducted using the manufacturer's product and the standard test product identified at the end of this paragraph. Each test shall be repeated three times for each of the three dilutions: 1:10, 1:20 and 1:30. The offered product shall perform as well as, or better, than the standard test product. Unless otherwise specified, the test conditions shall be 25° +/- 5°C (77° +/- 9°F). Specific requirements for each annex are as follows.

Standard Test Product:

SO-SURE POWER GREEN, P/N: 1064091
 LIGHTHOUSE FOR THE BLIND INC.
 10616 TRENTON AVE.
 SAINT LOUIS, MO 63132-1223
 (314) 423-7955

Annex A2

Establish the standard number of cycles for the Standard Test Product to remove 75% of the soil. The test results shall be reported as described in the test annex.

Annex A3

The test will be conducted until 75% of the soil has been removed from either the standard test product, or the manufacturer's product. The test results shall be reported as described in the test annex.

Annex A5

The test value shall be greater than or equal to the standard test product.

Copies of ASTM test methods may be obtained from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959
 Website: <http://www.astm.org>

Shelf life code: 7. Maximum age on delivery shall not exceed five (5) months from date of manufacture.

Date of re-inspection shall be thirty-six (36) months after date of manufacture.

Unit of issue – DR (Fifty-five (55) gallon plastic drum).

NSN: 7930-01-373-8845

CLEANING COMPOUND, SOLVENT-DETERGENT: Lighthouse for the Blind, St. Louis, SO-SURE POWER GREEN, P/N 1064090, or equal, with the following characteristics:

The product shall be a concentrated, non-abrasive, non-hazardous, non-flammable and non-corrosive general purpose cleaner/degreaser.

The product shall also have the following physical properties and contain the materials in the quantities specified:

The multipurpose cleaner shall have a minimum biobased content of 56% and shall be based on the amount of qualifying biobased carbon in the finish product as a percent of the weight (mass) of the total organic carbon in the finished product as specified by the Department of Agriculture Designation of Biobased Items for Federal Procurement: Final Rule (Federal Register, Vol. 71, No. 51, March 16, 2006.

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

pH: approx - 10

Specific Gravity: - approx. 1.030 gm/cc.

Performance Requirement:

Cleaning performance shall be demonstrated using the latest edition of ASTM D4488, Standard Guide for Testing Cleaning Performance of Products Intended for Use on Resilient Flooring and Washable Walls. The cleaning performance tests that are outlined in Annexes A2, A3 and A5 shall be used. Each test shall be conducted using the manufacturer's product and the standard test product identified at the end of this paragraph. Each test shall be repeated three times for each of the three dilutions: 1:10, 1:20 and 1:30. The offered product shall perform as well as, or better, than the standard test product. Unless otherwise specified, the test conditions shall be 25° +/- 5°C (77° +/- 9°F). Specific requirements for each annex are as follows:

Standard Test Product:

SO-SURE POWER GREEN, P/N: 1064090
LIGHTHOUSE FOR THE BLIND INC.
8833 Fleischer Pl
SAINT LOUIS, MO 63134
(314) 423-7955

Annex A2

Establish the standard number of cycles for the Standard Test Product to remove 75% of the soil. The test results shall be reported as described in the test annex.

Annex A3

The test will be conducted until 75% of the soil has been removed from either the standard test product, or the manufacturer's product. The test results shall be reported as described in the test annex.

Annex A5

The test value shall be greater than or equal to the standard test product.

Copies of ASTM test methods may be obtained from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959
Website: <http://www.astm.org>

All items packed in open head pails of 4 to 6 gallon capacity shall have the pails marked with Child Drowning Warning Labels to comply ASTM F 1615. ASTM standards are available from ASTM, 100 Barr Harbor Dr., West Conshohocken, PA 19428.

Shelf life code: 7. Maximum age on delivery shall not exceed five (5) months from date of manufacture. Date of re-inspection shall be thirty-six (36) months after date of manufacture.

Unit of issue – CN (Five (5) gallon can).

NSN: 7930-01-373-8848

CLEANING COMPOUND, SOLVENT-DETERGENT: Lighthouse for the Blind, St. Louis, SO-SURE POWER GREEN, P/N 1064092, or equal with the following requirements and characteristics:

The product shall be a concentrated, non-abrasive, non-hazardous, non-flammable and non-corrosive general purpose cleaner/degreaser.

The product shall also have the following physical properties and contain the materials in the quantities specified:

The multipurpose cleaner shall have a minimum biobased content of 56% and shall be based on the amount of qualifying biobased carbon in the finish product as a percent of the weight (mass) of the total organic carbon in the finished product as specified by the Department of Agriculture Designation of Biobased Items for Federal Procurement: Final Rule (Federal Register, Vol. 71, No. 51, March 16, 2006.

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

pH: approx - 10

Specific Gravity: - approx. 1.030 gm/cc.

Performance Requirement:

Cleaning performance shall be demonstrated using the latest edition of ASTM D4488, Standard Guide for Testing Cleaning Performance of Products Intended for Use on Resilient Flooring and Washable Walls. The cleaning performance tests that are outlined in Annexes A2, A3 and A5 shall be used. Each test shall be conducted using the manufacturer's product and the standard test product identified at the end of this paragraph. Each test shall be repeated three times for each of the three dilutions: 1:10, 1:20 and 1:30. The offered product shall perform as well as, or better, than the standard test product. Unless otherwise specified, the test conditions shall be 25° +/- 5°C (77° +/- 9°F). Specific requirements for each annex are as follows.

Standard Test Product:

SO-SURE POWER GREEN, P/N: 1064092
LIGHTHOUSE FOR THE BLIND INC.
8833 Fleischer Pl
SAINT LOUIS, MO 63134
(314) 423-7955

Annex A2

Establish the standard number of cycles for the Standard Test Product to remove 75% of the soil. The test results shall be reported as described in the test annex.

Annex A3

The test will be conducted until 75% of the soil has been removed from either the standard test product, or the manufacturer's product. The test results shall be reported as described in the test annex.

Annex A5

The test value shall be greater than or equal to the standard test product.

Copies of ASTM test methods may be obtained from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959

Website: <http://www.astm.org>

Shelf life code: 7. Maximum age on delivery shall not exceed five (5) months from date of manufacture. Date of re-inspection shall be thirty-six (36) months after date of manufacture.

Unit of issue – BX (Six (6) each, one (1) gallon bottles per box).

NSN: 7930-01-373-8849

CLEANING COMPOUND, SOLVENT-DETERGENT: Lighthouse for the Blind of St. Louis, SO-SURE POWER GREEN, P/N: 1064089, or equal, with the following characteristics:

The product shall be a concentrated, non-abrasive, non-hazardous, non-flammable and non-corrosive general purpose cleaner/degreaser.

The product shall also have the following physical properties and contain the materials in the quantities specified:

The multipurpose cleaner shall have a minimum biobased content of 56% and shall be based on the amount of qualifying biobased carbon in the finish product as a percent of the weight (mass) of the total organic carbon in the finished product as specified by the Department of Agriculture Designation of Biobased Items for Federal Procurement: Final Rule (Federal Register, Vol. 71, No. 51, March 16, 2006).

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

pH: approx - 10

Specific Gravity: - approx. 1.030 gm/cc.

Performance Requirement:

Cleaning performance shall be demonstrated using the latest edition of ASTM D4488, Standard Guide for Testing Cleaning Performance of Products Intended for Use on Resilient Flooring and Washable Walls. The cleaning performance tests that are outlined in Annexes A2, A3 and A5 shall be used. Each test shall be conducted using the manufacturer's product and the standard test product identified at the end of this paragraph. Each test shall be repeated three times for each of the three dilutions: 1:10, 1:20 and 1:30. The offered product shall perform as well as, or better, than the standard test product. Unless otherwise specified, the test conditions shall be 25° +/- 5°C (77° +/- 9°F). Specific requirements for each annex are as follows.

Standard Test Product:

SO-SURE POWER GREEN, P/N: 1064089
LIGHTHOUSE FOR THE BLIND INC.
8833 Fleischer Pl
SAINT LOUIS, MO 63134
(314) 423-7955

Annex A2

Establish the standard number of cycles for the Standard Test Product to remove 75% of the soil. The test results shall be reported as described in the test annex.

Annex A3

The test will be conducted until 75% of the soil has been removed from either the standard test product, or the manufacturer's product. The test results shall be reported as described in the test annex.

Annex A5

The test value shall be greater than or equal to the standard test product.

Copies of ASTM test methods may be obtained from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959
Website: <http://www.astm.org>

Shelf life code: 7. Maximum age on delivery shall not exceed five (5) months from date of manufacture. Date of re-inspection shall be thirty-six (36) months after date of manufacture.

Unit of issue – BX (twelve (12) each, twenty-two (22) ounce trigger spray bottles per box)

NSN: 7930-01-379-5696

CLEANING COMPOUND, HARD SURFACE-FLOOR: Ecolab Inc. OASIS 115XP, Ammoniated Floor Cleaner Concentrate, P/N 10625, or equal, with the following requirements and characteristics:

Extra strength, liquid, ammoniated floor cleaner for cleaning quarry tile, concrete and other hard surfaces. Must be compatible for use with Ecolab Oasis cleaning chemical dispensing system.

The product shall be carcinogen free as defined in 29CFR 1900.1200 (d)(4).

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Approx Wt. %
Sodium Hydroxide	1310-73-2	3
Tetrasodium edta	64-02-8	1 - 5

Solubility: Soluble in the following materials: cold water and hot water.
pH: 12.5 to 14 [Conc. (% w/w): 100%]
Flash point: >100°C

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue - BX (two and one-half (2.5) gallon box with integral plastic container).

NSN: 7930-01-380-4783

ABSORBENT MATERIAL, OIL AND WATER: with the following characteristics:

Low dusting clay granular absorbent comprised of 10-20 percent amorphous silicates and 80-90 percent fullers earth; soaks up to 90% of its own weight. The absorbent material shall contain less than 0.1 % respirable crystalline silicates. The total crystalline silicate shall be determined using NIOSH Method 7500.

Unit of issue – **BG** (Fifty (50) pounds in a bag).

NSN: 7930-01-380-8365

FLOOR, GLOSS RESTORER: NIB Houston, DIVERSY, SNAPBACK SPRAYBUFF P/N 04116 or equal, with the following characteristics:

The product shall be a spray buff maintainer. It shall produce a brilliant shine while removing scuffs, scratches, ground-in dirt and black heel marks. It shall leave floors with a glossy, durable, slip-resistant finish.

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – BX (Four (4) each, one (1) gallon containers per box).

NSN: 7930-01-380-8381

REMOVER, NONBUFFING FLOOR POLISH: NIB Houston, DIVERSY Inc., BRAVO P/N 04576 or equal with the following characteristics:

The product shall be a concentrated heavy duty stripper. It shall remove tough build-ups and burnished finishes. It shall be non-ammoniated, phosphate-free and pleasantly scented. Not for use on unsealed wood, cork, linoleum or painted surfaces.

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Approx Wt. %
Monoethanolamine	141-43-5	5 - 10%
Sodium Hydroxide	1310-73-2	5 - 10%
Ethyl Alcohol	64-17-5	0.1 – 1.5%

pH – approx – 13.00

Specific Gravity: - approx. 1.089 gm/cc

All items packed in open head pails of 4 to 6 gallon capacity shall have the pails marked with Child Drowning Warning Labels to comply ASTM F 1615. ASTM standards are available from ASTM, 100 Barr Harbor Dr., West Conshohocken, PA 19428.

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – CO (five (5) gallon container).

NSN: 7930-01-380-8387

FINISH, FLOOR, NONBUFFING: NIB Houston, DIVERSY Inc., COMPLETE P/N 04651 or equal with the following characteristics:

The product shall be a durable floor finish intended of use in heavy foot traffic areas on vinyl, vinyl composition, vinyl asbestos, asphalt tile, rubber, and linoleum. It shall minimize scuffing, black heel marks, scarring, dirt penetration and rubber marks. Not for use on wood or cork floors.

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Approx Wt. %
Ethylene Glycol	107-21-1	1 - 5
Diethylene Glycol Monoethyl Ether	111-90-0	1 - 5

pH – approx – 9.2

Specific Gravity: - approx. 1.02 gm/cc

All items packed in open head pails of 4 to 6 gallon capacity shall have the pails marked with Child Drowning Warning Labels to comply ASTM F 1615. ASTM standards are available from ASTM, 100 Barr Harbor Dr., West Conshohocken, PA 19428.

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – CO (five (5) gallon container).

NSN: 7930-01-380-8404

CLEANING COMPOUND, TOILET BOWL: Ecolab Inc., QUIK-PAK, P/N 61140380, or equal, supplied by NIB Rochester, NY with the following requirements and characteristic:

The product shall be a pre-measured concentrate that combats hard water deposits and toilet bowl sediments without harsh acids or caustics. The water soluble packet shall release effervescing cleaning agents with fresh floral fragrance.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Approx Wt. %
Sulphamic Acid	5329-14-6	20 - 50
Sodium Carbonate	497-19-8	5 - 20

pH – approx – 2.2 (1%)

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – BX (Two (2) pails, each containing ninety (90) one-half (1/2) ounce packets)

NSN: 7930-01-380-8406

FINISH, FLOOR, NONBUFFING: NIB Houston, DIVERSY Inc., SHOW PLACE P/N 5120888 with the following characteristics:

All items packed in open head pails of 4 to 6 gallon capacity shall have the pails marked with Child Drowning Warning Labels to comply ASTM F 1615. ASTM standards are available from ASTM, 100 Barr Harbor Dr., West Conshohocken, PA 19428.

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – CN (five (5) gallon can).

NSN: 7930-01-380-8447

FINISH, FLOOR, NONBUFFING: NIB Houston, DIVERSY, COMPLETE, P/N 04649 or equal, with the following characteristics:

The product shall be a durable floor finish intended of use in heavy foot traffic areas on vinyl, vinyl composition, vinyl asbestos, asphalt tile, rubber, and linoleum. It shall minimize scuffing, black heel marks, scarring, dirt penetration and rubber marks. Not for use on wood or cork floors.

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Approx Wt. %
Diethylene Glycol Monoethyl Ether	111-90-0	1-5
Ethylene Glycol	107-21-1	1-5

pH – approx – 9.2

Specific Gravity: - approx. 1.02

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – BX (four (4) one (1) gallon containers per box).

NSN: 7930-01-380-8450

FINISH, FLOOR, NONBUFFING: NIB Houston, Johnson Wax Professional, SHOW PLACE, HIGH GLOSS P/N 04059, with the following characteristics:

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue - four (4) one (1) gallon containers per box.

NSN: 7930-01-380-8469

REMOVER, NONBUFFING FLOOR POLISH: NIB Houston, DIVERSY, BRAVO, P/N 04583 or equal, with the following characteristics:

The product shall be a concentrated heavy duty stripper. It shall remove tough build-ups and burnished finishes. It shall be non-ammoniated, phosphate-free and pleasantly scented. Not for use on unsealed wood, cork, linoleum or painted surfaces.

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Approx Wt. %
Monoethanolamine	141-43-5	5 - 10%
Sodium Hydroxide	1310-73-2	5 - 10%

pH – approx – 13.5

Specific Gravity: - approx. 1.10 gm/cc

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – BX (four (4) one (1) gallon containers per box).

NSN: 7930-01-380-8495

AIR SANITIZER AND SURFACE CLEANER: Ecolab Inc. ASEPTICARE, aerosol disinfectant virucide, P/N 61165585, Chase Products, SprayPAK Spray disinfectant P/N 4334104 or equal, with the following requirements and characteristics:

The product shall be designed for use in hospitals, offices, pet care areas, motels, institutional and industrial facilities.

Shall be effective against Staphylococcus, Pseudomonas, Mycobacterium tuberculosis, and specific viruses.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Wt. %
Quaternary Ammonium Compounds, Benzyl-C12-18-Alkyldimethyl, Chlorides	68391-01-5	0.15
Quaternary Ammonium Compounds, C12-14-Alkyl[(Ethylphenyl)Methyl]Dimethyl,	85409-23-0	0.15
Ethanol	64-17-5	62.74
Hydrofluorocarbon 152a	75-37-6	20-50

pH – 11 to 12.5 [Conc. (% w/w): 100%]

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The product shall be registered and labeled in compliance with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended in accordance with 40 Code of Federal Regulations (CFR) 152-180. This act and regulations promulgated there under is administered by the EPA.

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – BX (Twelve (12) each, 14-ounce aerosol spray cans per box).

NSN: 7930-01-380-8513

FINISH, FLOOR, NONBUFFING: DIVERSEY, INC. Signature UHS, P/N: 5104950 or equal with the following requirements and characteristics:

Shall be a homogeneous, free-flowing liquid, water emulsion floor polish. The material shall be suitable for use on resilient flooring materials including the following: asphalt, vinylasbestos, vinyl, vinyl composition, rubber and linoleum.

The product shall also have the following physical properties and contain the materials in the quantities specified:

- Drying time – Approx 30 minutes
- Non-Volatile Content – 19.8 – 20.2%
- pH ASTM E70 – 8.0 – 8.6
- Accelerated Aging – No visible change
- Specular Gloss – 85 Min.
- Sediment – 0.1% by volume max.
- Stain Resistance – Shall show no permanent whitening of film.
- Detergent Resistance – Shall show no permanent whitening and no more than a slight dulling of the film.
- Plasticizer Migration Resistance – Should register 200 gm pull max.
- Water Resistance – Shall show no permanent whitening and no more that a slight dulling of the dried film.
- Flexibility and Adhesion – Dried film should be flexible and shall adhere firmly to the surface without checking, cracking or peeling.
- Slip Resistance shall meet ASTM D2047

Component	CAS #	Wt %
Diethylene Glycol Monoethyl Ether	111-90-0	5-10

All items packed in open head pails of 4 to 6 gallon capacity shall have the pails marked with Child Drowning Warning Labels to comply ASTM F 1615. ASTM standards are available from ASTM, 100 Barr Harbor Dr., West Conshohocken, PA 19428.

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – CO (Five (5) gallon container).

NSN: 7930-01-381-3491

POLISH, FURNITURE: DIVERSY, Inc., Lemon Pledge, Furniture Polish, P/N: 5763074 or equal, with the following requirements and characteristics:

Ready-to-use, spray containing a blend of natural waxes that cleans and brightens dull furniture without waxy build-up and repels dust. Shall be suitable for use on wood furniture, cabinets, paneling, baseboards, vinyl and leather. Shall not contain CFCs. Shall be a liquid aerosol with a citrus fragrance.

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Approx Wt. %
Naphtha, Petroleum, Light Alkylate	64741-66-8	5-10
Nitrogen	7727-37-9	0.1-1.5

Specific Gravity – Approx 0.955

Shelf life code: 7. Maximum age on delivery shall not exceed five (5) months from date of manufacture. Date of re-inspection shall be thirty-six (36) months after date of manufacture.

Unit of issue – BX (Six (6) each, thirteen and eight tenths (13.8) ounces net weight, aerosol cans per box).

NSN: 7930-01-381-3499

GLASS CLEANER: Bio-Glass Cleaner with Ammonia or equal, with the following characteristics:

Ready-to-use, non-streaking, non-filming glass and surface cleaner that contains ammonia. Suitable for cleaning stainless steel, chrome, porcelain, ceramic tile, Plexiglas, Formica counters, mirrors, plastic, vinyl, tabletops and glass. The product shall effectively remove grease and other soils from surfaces and shall not contain phosphorus.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Approx Wt. %
Hexyloxyethanol	112-25-4	0.1 – 1.5%
Ammonium hydroxide	1336-21-6	0.1 – 1.5%
Isopropyl Alcohol	67-63-0	1-5%

Clear liquid with a mild odor
pH: approx - 9.8 – 10.7
Solubility in water 100%
Flash Point – None
Specific Gravity – Approx 1.005

The glass cleaner shall have a minimum biobased content of 49% and shall be based on the amount of qualifying biobased carbon in the finish product as a percent of the weight (mass) of the total organic carbon in the finished product as specified by the Department of Agriculture Designation of Biobased Items for Federal Procurement: Final Rule (Federal Register, Vol. 71, No. 51, March 16, 2006).

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

Each bottle shall be individually capped and with a trigger sprayer attached to the bottle.

Performance requirement: When tested in accordance with Consumer Specialty Products Association (CSPA) DCC 09, the glass cleaner shall perform equal to or better than the reference glass cleaner identified below this paragraph in the categories: cleaning ability, streaking, and smearing tendency.

Reference cleaner

Bio-Glass Cleaner with Ammonia
Earth Friendly Chemicals, Inc.
2585 Horse Pasture Road, Suite 202
Virginia Beach, VA 23453

CSMA methods are available from:
 Chemical Specialties Manufacturers Association, Inc.
 Attn: Member Services Dept.
 1913 Eye Street, NW
 Washington, DC 20006.

Shelf life code: 7. Maximum age on delivery shall not exceed five (5) months from date of manufacture.
 Date of re-inspection shall be thirty-six (36) months after date of manufacture.

Unit of issue – BX (Twelve (12) each, thirty-two (32) ounce bottles per box).

NSN: 7930-01-382-9138

CLEANING COMPOUND, TOILET BOWL: ZEP Manufacturing Company, ZEP JOHNNY APPLESTICK, P/N 174501 or equal, with the following characteristics:

The item shall be a combination toilet bowl cleaner and bathroom deodorizer. It shall be supplied with clips to allow mounting under toilet bowl rim. The material shall be individually packaged, and sealed in cellophane bags and shall contain no paradichlorobenzene.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Approx Wt. %
SODIUM DODECYLBENZENE SULFONATE; Linear Alkyl Aryl Sodium Sulfonate; Sodium DDBSA	25155-30-0	50 - 60

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

Unit of issue – BX (Twenty-four (24) each per box).

NSN: 7930-01-383-7926

CLEANER, INDUSTRIAL, MULTI-PURPOSE: Shall be Spray Nine Corp., GREZ-OFF, P/N 22732, or equal, with the following requirements and characteristics:

The product shall be a non-flammable, ready-to-use water based degreaser. Effectively removes grease and grime from engines, machinery, asphalt, and garage floors.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Approx Wt. %
Dipropylene Glycol Monobutyl Ether	29911-28-2	1-5
Alcohols, C9-11, Ethoxylated	68439-46-3	1-5
Sodium Metasilicate	6834-92-0	1-5

pH – approx – 12.4

Specific Gravity: - approx. 1.013 gm/cc.

Solubility in water 100%

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

CLEANING PERFORMANCE

Cleaning Performance Requirement

The product shall clean hard surfaces effectively by demonstrating that it performs as well as, or better than, the standard test product, as measured by test method A5 “particulate and oily soil/vinyl tiles” specified in the most current version of ASTM D4488, “Standard Guide for Testing Cleaning Performance of Products Intended for Use on Resilient Flooring and Washable Walls.”

Standard Test Product:

GREZ-OFF, P/N 22732
Spray Nine Corp
251 N. COMRIE AVE.
P.O. BOX 290
JOHNSTOWN, NY 12095-0290

Copies of ASTM test methods may be obtained from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959 Website: <http://www.astm.org>

Shelf life code: 8. Maximum age on delivery shall not exceed seven (7) months from date of manufacture. Date of re-inspection shall be forty-eight (48) months after date of manufacture.

Unit of issue – BX (Twelve (12) each, thirty-two (32) ounce pump-spray containers per box).

NSN: 7930-01-392-6939

SPILL KIT, ISOPAR M: International Environmental P/N SSK-1000 or equal, with the following requirement and characteristics:

Ten (10)	One (1) Foot X One (1) Foot Pillow
Six (6)	One (1) Foot X Four (4)Foot Pillow
Two (2)	Three (3) Foot X Three (3) Foot Pillow
Four (4)	Two (2) Foot X Three (3) Inch Dia. Boom
Four (4)	Four (4) Foot X Three (3) Inch Dia. Boom
One (1)	Five (5) Gal Container Of Loose Polymer (Approx 10 Lb)
One (1)	Eight (8) Inch X Four (4) Inch Deck Drain Filter
Six (6)	Eight (8) Inch X Two (2) Inch Filter Inserts
One (1)	Thirty-Three (30) Inch X Twenty-Two (22) Inch X Sixteen (16) Inch

Unit of issue – KT (Kit)

NSN: 7930-01-392-7560

DETERGENT, LAUNDRY: Ecolab Inc., Homestyle Solid Laundry Detergent with Enzymes P/N 6100150 or equal with the following requirements and characteristics:

The product shall be a solid capsule laundry detergent that is safe for all fabrics. The product, and its container and shape, must be compatible with the Ecolab Solid System II, Solitron 1500. The temperature use range shall be 110 to 160°F. The product shall contain optical brighteners and soil suspending agents.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Wt. %
Zeolite	1318-02-1	20-50

Poly(Oxy-1,2-Ethanediy), A-(2-Propylheptyl)-W-Hydroxy-	160875-66-1	5-20
Sodium Carbonate	497-19-8	20-50
Alcohols, C12-16, Ethoxylated	68551-12-2	20-50

pH (1%) – Approx 11

Shelf life code: 7. Maximum age on delivery shall not exceed five (5) months from date of manufacture. Date of re-inspection shall be thirty-six (36) months after date of manufacture.

Unit of issue – BX (Four (4) each, four (4) pound capsules per box).

NSN: 7930-01-393-6747

CLEANER, INDUSTRIAL, MULTI-PURPOSE: PERMATEX; SPRAY NINE; P/N 26825, MULTI-PURPOSE, GERMICIDAL CLEANER or equal with the following characteristics and requirements:

The product shall be a ready to use biodegradable, non-toxic, non-flammable, non-combustible multi-purpose germicidal cleaner. It shall be for use on most surfaces including plastics, metal, fiberglass, porcelain and rubber. Not recommended for use on wood surfaces and wool. It shall not contain petroleum solvents, bleach or acids. It shall remove carbon, dirt, ink, petroleum residues, cooking fats and fresh paint. The product shall be packaged in spray bottles.

Kills virus within 30 seconds contact time, kills bacteria within 45 seconds contact time, kills fungi within 3 minutes contact time.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Approx Wt. %
Ethoxylated C9-C11 Alcohols	68439-46-3	1-5
2-Butoxyethanol	111-76-2	1-5

Flash Point – Not less than 180°F TCC

pH – Approx 12.6

Specific Gravity – Approx 1.022

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The product shall be registered and labeled in compliance with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended in accordance with 40 Code of Federal Regulations (CFR) 152-180. This act and regulations promulgated there under is administered by the EPA. The containers shall be labeled with contents and directions for use, in accordance with 40 CFR 156-157.

The product shall be registered as effective against the following:

- Animal Pathogenic Bacteria (G- And G+ Vegetative)
- Pseudomonas Spp.
- Animal Pathogenic Fungi
- Candida Albicans
- Rhinovirus Type 37
- Adenovirus Type 2
- Herpes Simplex Virus I
- Herpes Simplex Virus II
- Influenza A2
- Respiratory Syncytial Virus

Hiv-I (Human Immunodeficiency Virus)
Mold/Mildew

CLEANING PERFORMANCE:

Cleaning Performance Requirement

The product shall clean hard surfaces effectively by demonstrating that it performs as well as, or better than, the standard test product, as measured by test method A5 "particulate and oily soil/vinyl tiles" specified in the most current version of ASTM D4488, "Standard Guide for Testing Cleaning Performance of Products Intended for Use on Resilient Flooring and Washable Walls."

Standard Test Product:
SPRAY NINE; P/N 26825, MULTI-PURPOSE, GERMICIDAL CLEANER
Permatex, Inc.
10 Columbus Blvd.
Hartford, CT 06106 USA
(877) 376-2839

Copies of ASTM test methods may be obtained from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959 Website: <http://www.astm.org>

Unit of issue – BX (twelve (12) twenty-two (22) ounce spray bottles per box).

NSN: 7930-01-398-0997

DEICER: Cavalier Inc., Mr. Melt, P/N: 997370 or equal, with the following requirements and characteristics:

The deicer shall be 90-95% pellet calcium chloride for use on sidewalks, driveways or parking areas. The material shall leave no residue.

Shelf life code: 7. Maximum age on delivery shall not exceed five (5) months from date of manufacture. Date of re-inspection shall be thirty-six (36) months after date of manufacture.

Unit of issue – CN (Forty-four (44) pound per container).

NSN: 7930-01-398-1013

CLEANING COMPOUND, SOLVENT-DETERGENT: ZOK, Inc. P/N ZOK-27, shall meet the following minimum requirements:

This description is for a turbine engine gas path cleaning compound for use in cleaning off-line (starter cranked) engines. The product shall meet the requirements of MIL-PRF-85704C, dated July 15, 1998, Cleaning Compound, Turbine Engine Gas Path, for Type II cleaner. The product shall be listed in the latest revision of the Qualified Products Database QPD-85704

The product shall also meet the requirements of the following specifications:

Alstom Gas Turbines
General Electric GEK 103623 and MID-TD-0000-5
Rolls-Royce MSRR 9914
Solar ES9-62-1 On-Crank and On-line.
UK Defense Standard 79-18

All items packed in open head pails of 4 to 6 gallon capacity shall have the pails marked with Child Drowning Warning Labels to comply with California Assembly Bill No. 2942 (Chapter 43 of the California Statutes of 1992), when these items are for delivery to any facility of the General Services Administration or to any addressee in the State of California.

Shelf life code: 9. Maximum age on delivery shall not exceed nine (9) months from date of manufacture. Date of re-inspection shall be sixty (60) months after date of manufacture.

Unit of issue – CN (Six & six-tenths (6.6) gallon container).

NSN: 7930-01-398-2473

DUST REMOVER, COMPRESSED GAS: Lighthouse for the Blind, St. Louis, SKILCRAFT POWER DUSTER P/N 894002, or equal, with the following requirements and characteristics:

The product shall be capable of removing dust, dirt and other particulate matter from keyboards, printers and other sensitive surfaces. It shall be a 100% ozone safe office duster, with a trigger-operated spray nozzle.

The product shall not be flammable or extremely flammable as defined in 16 CFR 1500.3 (c)(6)(vii & viii) when tested in accordance with 16 CFR 1500.45.

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements, latest revision.

The product shall meet the requirements for a "Pressurized Gas Duster" as specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements, latest revision.

Unit of issue – BX (Six (6) each, ten (10) ounce aerosol cans per box).

NSN: 7930-01-399-2720

DETERGENT, GENERAL PURPOSE: Werth Sanitary Supply Co. Inc., FORMULA 66 ENZYME DIGESTER, P/N 100210 or equal with the following requirements and characteristics:

The product shall be a bio-enzymatic drain maintainer and waste digester used for keeping drain lines and grease traps clean and free of organic waste and odors. The product shall be a concentrated solution of various non pathogenic bacteria and surfactants; spore forming bacteria and non-spore forming microbes. The bacteria shall be capable of producing sufficient quantities of lipase, protease, cellulose and amylase for digestion of soils containing starch, proteins, cellulose, grease, oils and fats.

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The bathroom and spa cleaner shall have a minimum biobased content of 74% and shall be based on the amount of qualifying biobased carbon in the finish product as a percent of the weight (mass) of the total organic carbon in the finished product as specified in 7 CFR 2902.35.

The product shall contain seven strains of microbes:

Strain 1: Good producer of amylase, protease, lipase, and cellulase. Acts as synergist for other strains allowing them to be even more efficient. Primarily aerobic organism, spore forming.

Strain 2: Facultative organism, excellent lipase producer for degradation of animal and vegetable fats, oils and grease. Grows anaerobically at high temperatures (60-140°C). Produces biosurfactants, spore former.

Strain 3: Facultative organism. Excellent under anoxic or anaerobic conditions as an alternative electron donor. Works well at low temperatures (>34°F). Good producer of hydrolytic enzymes such as protease, amylase, lipase, pentanase, pectinase, urease and xylanase. Spore former.

Strain 4: Facultative organism. Excellent amylase producer, good cellulase and protease production. Excellent in digesting a variety of sugars and starches, utilizing a variety of amylases. Spore former.

Strain 5: Hardy, facultative strain that is a good survivor in difficult conditions. Broad spectrum producer of enzymes, especially pectinase. Prefers to grow anaerobically (anoxic), but will grow aerobically as well. Spore former.

Strain 6: Excellent on animal and vegetable fats, oils, and greases as well as hydrocarbons, soaps and detergents. Very aggressive digester. Non spore forming. Excellent bioaugmentation organism.

Strain 7: Non spore forming microorganism which produces large amounts of biosurfactants which has the ability to increase the solubility of oxygen in water. Biosurfactants also help in the breakdown of hydrocarbons, soaps, detergents, fats, oils and greases.

Additionally, the product shall have the following physical characteristics:

pH: approx - 7.5
Viscosity - < 50 CPS
Bacteria Count: 200 billion per gallon.

Shelf life code: 4. Maximum age on delivery shall not exceed two (2) months from date of manufacture. Date of re-inspection shall be twelve (12) months after date of manufacture.

Unit of issue – BX (Twelve (12) each, one (1) quart containers per box).

NSN: 7930-01-411-8931

CLEANING COMPOUND, SOLVENT-DETERGENT: 3M, DESK AND OFFICE CLEANER 573, 3M ID: 70-0714-9577-7 or equal, with the following requirements and characteristics:

The cleaning compound shall be an aerosol foam cleaner with a lemon odor, suitable to clean desk tops, cabinets, business machines, painted surfaces, office furniture and luggage. The product shall remove dust, ink smudges and fingerprints without leaving oily or sticky residues and without streaking.

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The product shall not contain any fluorocarbons and shall have a pH of between 10 and 12.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Approx Wt. %
Water	7732-18-5	80 - 95
Isobutane Propellant	75-28-5	1 - 5
Isopropyl Alcohol	67-63-0	3 - 5
Ethoxylated Alcohols	61791-00-2	1 - 3
Sodium Carbonate	497-19-8	0 – 1

pH: 11-12
Specific gravity: Approximately 1 (Water=1)

Unit of issue – BX (Twelve (12) each, fifteen (15) ounce aerosol cans)

NSN: 7930-01-412-0535

DETERGENT, LAUNDRY: Werth Sanitary Supply Co. Inc., "ONE STROKE" LAUNDRY DETERGENT, P/N 145495 or equal with the following requirements and characteristics:

A pre-measured liquid laundry detergent concentrate packaged with a dispensing pump for accurate dispensing. Simply use "one stroke" per wash-load. The detergent shall be formulated to be safe for all fabrics and work in all water temperatures. The product shall be suitable for use in laundry, vehicle washing, floor mopping and as a spray and wipe cleaner. The product shall be capable of cleaning 128 wash loads per gallon. The product shall not contain optical brighteners

The Laundry product shall have a minimum biobased content of 34% and shall be based on the amount of qualifying biobased carbon in the finish product as a percent of the weight (mass) of the total organic carbon in the finished product as specified by the Department of Agriculture Designation of Biobased Items for Federal Procurement: Final Rule (Federal Register, Vol. 71, No. 51, March 16, 2006.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Wt. %
Linear Alcohol Ethoxylate	34398-01-1	10-20
Linear Alkylbenzene Sulfonic Acid	68584-22-5	5-15

Boiling Point > 212°F

Specific Gravity – Approx 1.04

pH – 8.5 – 9.0

Flash Point >300°F

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue: BX (Four (4) each, one (1) gallon containers per box).

NSN: 7930-01-412-0982

DEICER: ZEP Manufacturing Co., ZEP ICE MELT, P/N 017601 or equal, with the following requirements and characteristics.

The product shall be an aerosol ethanol based thawing agent that instantly melts frost from windshields, headlights, and doors of autos, trucks, buses and trains and quickly thaws frozen locks. The material shall contain a highly effective corrosion inhibitor to prevent rusting of automobiles and other ferrous surfaces. The product shall be harmless to metal, rubber, plastic, glass, painted surfaces, cloth and clothing.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Wt. % (Approx)
Ethanol	64-17-5	70 - 80
Ethylene Glycol	107-21-1	20 - 30

Specific Gravity – approx 0.84

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of Issue – BX - (Twelve (12) each, twenty (20) ounce aerosol containers per box).

NSN: 7930-01-412-0984

DEICER: ZEP Manufacturing Company, ZEP SUPER D-ICE, P/N 149433 or equal with the following requirements and characteristics:

The product shall be fast acting granular ice melting pellets. The concentrated ingredients will release thirty-seven (37) percent more heat than ordinary calcium chloride. The deicer may be used on sidewalks, driveways, parking areas, hills, and loading docks; around office buildings, shopping centers, hospitals, hotels, motels, schools, and churches. The product shall also have the following characteristics:

- Lower freezing point of -58°F compared to Rock Salt freezing point at -6°F.
- Fast Acting: Works quickly and effectively in dissolving ice and packed snow.
- Complete Solubility: Does not create drainage system problems when flushed into sewers and catch basins.
- Less Corrosive: Less corrosive on concrete compared to Rock Salt.
- Less Harmful to Vegetation: Has less adverse effect on vegetation than Rock Salt does.
- Safety: Reduces hazards of icy sidewalks, steps, driveways, and parking lots. Improves traction on icy slopes, curves, crossings, and intersections.

The deicer shall contain a minimum of 90% Calcium Chloride anhydrous beads, CAS# 10043-52-4. The solubility of the product shall be 24g/100 ml minimum.

All items packed in open head pails of 4 to 6 gallon capacity shall have the pails marked with Child Drowning Warning Labels to comply ASTM F 1615. ASTM standards are available from ASTM, 100 Barr Harbor Dr., West Conshohocken, PA 19428.

Unit of issue – DR - (forty (40) pound drum).

NSN: 7930-01-412-2402

FINISH, FLOOR, NONBUFFING: ZEP Manufacturing Company, ZEP BLACK OUT, P/N 184335 or equal, with the following requirements and characteristics:

The product shall be a black, water based, thermoplastic, non-buffing, floor finish. It shall be formulated for the maintenance of asphalt floors. The acrylic product shall be low-maintenance, dry-bright and provide a slip-resistant finish. The finish shall be a combination of acrylic copolymers, plasticizers and black pigment that beautify and protect porous asphalt plank surfaces. Each coat of the material shall dry in 30 to 60 minutes. It shall meet or exceed Slip Resistance Standards (when properly maintained) established by CSPA and UL as tested in accordance with ASTM D-2047. Each gallon of product shall cover 500 – 800 square feet.

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements, latest revision.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Wt. %
Diethylene Glycol Monobutyl Ether, Ethoxydiglycol	111-90-0	1-10
Dibutyl Phthalate	84-74-2	1-5
Tributoxyethyl Phosphate	78-51-3	1-5
Carbon Black	1333-86-4	1

pH – approx - 7.0 to 8.0

Specific Gravity – Approx 1.02

All items packed in open head pails of 4 to 6 gallon capacity shall have the pails marked with Child Drowning Warning Labels to comply ASTM F 1615. ASTM standards are available from ASTM, 100 Barr Harbor Dr., West Conshohocken, PA 19428.

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue - CN (Five (5) gallon can).

NSN: 7930-01-412-2434

DEICER: CP Industries, P/N SU050P (SUPERIOR SNO-N-ICE MELTER) or equal with the following requirements and characteristics:

The product shall be a fast acting, non-exothermic, long lasting, inhibited deicer that is effective to minus 20 degrees F. The deicer shall be non-corrosive to metal and concrete; safe for people, animals and vegetation; shall not damage leather or carpets; and shall be non-toxic. The product shall contain components to prevent caking or clumps while in storage. The material shall also contain the following materials.

Component	CAS #
Sodium Chloride	7647-14-5
Calcium Magnesium Acetate	76123-46-1
Sodium Silicates	1344-09-8
Urea	57-13-6
Ethanol Amines	102-71-6
Magnesium Chloride Hexahydrate	7791-18-6
Potassium Acetate	127-08-2

Unit of issue – BX (Fifty (50) pound box).

NSN: 7930-01-418-1104

CLEANING COMPOUND, HARD SURFACE-FLOOR: Association for the Blind, Rochester; Ecolab Inc., SURE-PAK NEUTRAL PH CLEANER, P/N 61501409 or equal with the following requirements and characteristics:

The product shall be a concentrated premeasured, powdered, biodegradable, floor cleaner that is formulated to have a neutral pH with an odor counteractant. It shall be capable of the daily cleaning of all resilient floor surfaces. It shall be capable of being used with hot or cold, hard or soft water. It shall not leave a film or haze and does not require rinsing.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Approx Wt. %
Sodium Dodecylbenzene Sulfonate	25155-30	4

Sodium Carbonate	497-19-8	5-20
Citric Acid	77-92-9	5-20
Alcohols, C12-16, Ethoxylated	68551-12-2	5-20
Calcium Silicate	1344-95-2	1-5
Acetic Acid, Sodium Salt	127-09-3	1-5

pH – approx – 8 [Conc. (% w/w): 1%]

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – BX (two (2) tubs of ninety (90) half (1/2) ounce water-soluble pre-measured packets per box).

NSN: 7930-01-418-1145

CLEANING COMPOUND, HARD SURFACE-FLOOR: Champion Chemical Co. Inc., TWISTER, P/N: 60 or equal, with the following requirements and characteristics:

The cleaner shall be a concentrated, water based neutral floor cleaner that leaves no film and contains no phosphates. The product shall be formulated for use as a general cleaner for spot cleaning, wet mopping and machine scrubbing. The cleaner shall be safe to use on floors, walls, counters, sinks, mirrors, glass, chrome, stainless steel and all other washable surfaces. The product shall be designed to be mopped on and sprayed (pistol, trigger or pressure washer). It may also be used with sponges, pads, floor machines and auto scrubbers.

The product shall be biodegradable by EPA/OECD test methods.

The material shall also have the following physical characteristics and contain the materials in the quantities listed.

Component	CAS #	Wt. %
Nonyl Phenol Ethoxylate	9016-45-9	3-6%
Dipropylene Glycol Monomethyl Ether	034590-94-8	2-6%

pH – approx - 7.0 to 8.0

Total Solids – 8-10% Wt.

Specific Gravity – approx 1.0 gm/cc

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – BX (Six (6) each, one (1) gallon containers per box).

NSN: 7930-01-418-1151

CLEANING COMPOUND, SOLVENT-DETERGENT: Sunshine Makers Inc. CRYSTAL SIMPLE GREEN, P/N 19024 or equal with the following requirements and characteristics:

The product shall be a concentrated, all purpose degreaser and cleaner suitable for use in critical cleaning applications. The product shall be fragrance-free and color-free.

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The product shall be readily biodegradable by EPA/OECD test methods.

The Biological Oxygen Demand (BOD), as a percentage of the Chemical Oxygen Demand (COD), after 4, 7, and 11 days shall be not less than 56%, 60%, and 70% respectively.

The product shall also have the following physical properties and contain the materials in the quantities specified.

Specific Gravity: Approx 1.020
pH – approx 9.35 (concentrate)

Shelf life code: 7. Maximum age on delivery shall not exceed five (5) months from date of manufacture. Date of re-inspection shall be thirty-six (36) months after date of manufacture.

Unit of issue – BX (Twelve (12) each, twenty-four (24) ounce spray bottles per box).

NSN: 7930-01-418-1439

DESTAINER, LAUNDRY: Ecolab Inc., SOLID OXY-BRITE, P/N 16016 or equal, with the following requirements and characteristics:

The product shall be a solid, oxygen laundry destainer for use in the wash cycle. The product and its container shall be compatible with the Ecolab Solid System III Dispenser.

The products residue shall not be classified as hazardous waste as defined by 40CFR 261.3.

The cleaner shall also be biodegradable by EPA/OECD Test Methods.

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Approx Wt. %
Sodium Perborate, Monohydrate	10332-33-9	>50

pH of 1% Solution – Approx 10.0

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – BX (Two (2) each, three (3) pound capsules per box).

NSN: 7930-01-418-1513

CLEANER, INDUSTRIAL, MULTI-PURPOSE: Permatex Inc., GREZ-OFF, P/N 22755, or equal, with the following characteristics:

The product shall be a biodegradable, non-flammable, ready-to-use water based degreaser. Effectively removes grease and grime from engines, machinery, asphalt, and garage floors.

The product shall also have the following physical properties:

pH – approx - 12
Specific Gravity: - approx. 1.013 gm/cc.
Solubility in water 100%

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The product shall be biodegradable by EPA/OECD test methods.

CLEANING PERFORMANCE

Cleaning Performance Requirement

The product shall clean hard surfaces effectively by demonstrating that it performs as well as, or better than, the standard test product, as measured by test method A5 “particulate and oily soil/vinyl tiles” specified in the most current version of ASTM D4488, “Standard Guide for Testing Cleaning Performance of Products Intended for Use on Resilient Flooring and Washable Walls.”

Standard Test Product:

Permatex Inc., GREZ-OFF, P/N 22755

Copies of ASTM test methods may be obtained from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959 Website: <http://www.astm.org>

Shelf life code: 8. Maximum age on delivery shall not exceed seven (7) months from date of manufacture. Date of re-inspection shall be forty-eight (48) months after date of manufacture.

Unit of issue – DR (fifty-five (55) gallon drum).

NSN: 7930-01-419-5178

TOWELETTE, CLEANING: Sanford Corp., EXPO Towelettes, P/N 81850 or MMG Technology; United Stationers, P/N UNV43660 or equal with the following requirements and characteristics:

Premoistened, white, paper towelettes designed to clean and restore white boards by removing ghosting, stubborn stains, shadowing and grease and stains. The towelettes shall be approximately 5 1/2 inches X 10 inches.

Unit of issue - BX (Six (6) each pop-up containers with fifty (50) sheets per pop-up container).

NSN: 7930-01-420-3593

CLEANING COMPOUND, TOILET BOWL: Mirandy Products Ltd.; MIRABOWL Q; P/N MBQL01 or equal, with the following requirements and characteristics:

The product shall be a multi-level waste management and odor control system for use in aircraft lavatories. The product shall be capable of cleaning and deodorizing the complete lavatory system. Product features shall include: Deodorize up to 15 hours, clean and remove sludge and scale from tanks, pump filters and pumps, lubricate and deodorize o-rings, clean sensors in vacuum systems, soften water, unclog flush rings, burnish toilet bowls and splash pans.

The material shall meet or exceed the following aircraft manufacturer and aviation industry requirements:

Boeing D6-17487

Douglas CSD-3

Aerospace Material Specification 1476A

Embraer SNL 145-38-0001

Air Canada Anti-Microbial Test 3125-00-002

World Health Organization Anti-microbial Requirements
 Monogram Services Lavatory Tank Soak Test
 EDO Fiber Science Adhesive Soak Test
 Kaiser Electroprecision Valve o-rings & seals Soak Test

The product shall also have the following physical properties and contain the materials in the quantities specified.

Component	CAS #
Diethylene Glycol Monobutyl Ether	112-34-5
Quaternary	6839-10-15/68995-67-96
Trisodium Phosphate	10101-89-0

pH: approx – 9

Specific Gravity: - approx. 1.036 gm/cc.

Shelf life code: 4. Maximum age on delivery shall not exceed two (2) months from date of manufacture. Date of re-inspection shall be twelve (12) months after date of manufacture.

Unit of issue – DR (fifty-five (55) gallon drum).

NSN: 7930-01-423-1120

TOWELETTE, CLEANING: ZEP Manufacturing Company, ZEP Antibacterial Clean'EMS; P/N: 100001 or equal, with the following requirements and characteristics:

The item shall be a waterless hand scrubbing towel. The towels shall be perforated and packaged in a self contained canister. The towels shall be composed of a polypropylene and cellulose blend. Each towel shall be approximately 10-1/4 inch X 11-3/4 inch and shall have a citrus fragrance. The towels shall contain Triclosan as an antibacterial agent. The towelettes shall be packaged 60 each per container.

The product shall not contain any hazardous materials that require listing on the material safety data sheet in accordance with 29 CFR 1910.1200.

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of Issue – BX - (Six (6) each containers per box).

NSN: 7930-01-423-1145

CLEANING COMPOUND, PORCELAIN: ZEP Manufacturing Company, ZEP RING MASTER, P/N 184611 or equal with the following requirements and characteristics:

The cleaning compound shall be a concentrated, water dilutable, all-purpose bathroom cleaner. The cleaner shall be formulated to remove rust, scum, hard water deposits and stains from porcelain, ceramic, chrome, aluminum, and stainless steel fixture surfaces. The product shall contain a blend of mineral acids, emulsifiers, detergents, corrosion inhibitors, perfume and a color indicator. The cleaner shall be capable of clinging to ensure complete coverage of vertical surfaces. The material shall be designed to change color upon rinsing to assure complete rinsing. The product shall be packaged in angled-neck quart squirt bottles for easy application under the rim.

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

COMPONENT	CAS #	WT %
Phosphoric Acid	7664-38-2	20 - 30
Dodecyl Benzene Sulfonic Acid	27176-87-0	10 - 20
Ethanol; Ethyl Alcohol; Grain Alcohol	67-17-5	5 - 15
Hydrochloric Acid	7647-01-0	<5

Specific Gravity – Approx 1.14

Flash Point – Approx 106^o F

pH – < 1.0

Shelf life code: 7. Maximum age on delivery shall not exceed five (5) months from date of manufacture. Date of re-inspection shall be thirty-six (36) months after date of manufacture.

Unit of issue - BX (Twelve (12) each, thirty-two (32) oz. containers per box).

NSN: 7930-01-433-6632

POLISH, PLASTIC: BTI Chemical Co. Inc., Plexus, P/N: 20214 or equal, with the following requirements and characteristics:

The material shall be an aerosol plastic cleaner and polish for aircraft canopies. The product shall be safe for use on: polycarbonate, vinyl, Mylar, butyrate, acrylics, phenolic, polyethylene, styrene, epoxy laminates, ABS, composites, acetate and painted surfaces. The material shall be effective in removing: oil, dust & dirt, sticker adhesive, tar, bugs, paint overspray and other common contaminants.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below.

Component	CAS #	Wt. % Approx
Aliphatic Petroleum Distillates	64742-89-8	23
Propane	74-78-6	3
Isobutane	75-28-5	12

Specific Gravity – 0.91

Shelf life code: 7. Maximum age on delivery shall not exceed five (5) months from date of manufacture. Date of re-inspection shall be thirty-six (36) months after date of manufacture.

Unit of issue – BX (Twelve (12) each, thirteen (13) ounce aerosol cans per box.)

NSN: 7930-01-433-6634

POLISH, PLASTIC: BTI Chemical Co. Inc., Plexus, P/N: 20207 or equal with the following requirements and characteristics.

The material shall be an aerosol plastic cleaner and polish for aircraft canopies. The product shall be safe for use on: polycarbonate, vinyl, Mylar, butyrate, acrylics, phenolic, polyethylene, styrene, epoxy laminates, ABS, composites, acetate and painted surfaces. The material shall be effective in removing: oil, dust & dirt, sticker adhesive, tar, bugs, paint overspray and other common contaminants.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below.

Component	CAS #	Wt. % Approx
Aliphatic Petroleum Distillates	64742-89-8	23

Propane	74-78-6	3
Isobutane	75-28-5	12

Specific Gravity – 0.91

Shelf life code: 7. Maximum age on delivery shall not exceed five (5) months from date of manufacture. Date of re-inspection shall be thirty-six (36) months after date of manufacture.

Unit of issue – BX (Twelve (12) each, seven (7) ounce aerosol cans per box.)

NSN: 7930-01-436-7897

CLEANING COMPOUND, SOLVENT-DETERGENT: Gaylord Industries Inc. or 2010 Products, Formula G510 or equal with the following requirements and characteristics:

The product shall be a concentrated, multi-purpose colloid cleaner that is non-hazardous, non-toxic, non-caustic, non-fuming and non-flammable. The product shall not contain phosphates, nitrates, enzymes, sulfates, sulfonates or silicates. The product shall be compatible with the Gaylord wash down systems. The product shall be safe for use on metal, wood, glass, fabric, plastic, porcelain, rubber, tile and vinyl.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Wt. %
2-Amino ethanol	141-43-5	2-5
2-Butoxyethanol	111-76-2	3-6

pH – approx – 9.7

Specific gravity: 1.01

Solubility in water: Complete

Boiling point: 212F

Vapor pressure (mm Hg): 17.2

Shelf life code: 7. Maximum age on delivery shall not exceed five (5) months from date of manufacture. Date of re-inspection shall be thirty-six (36) months after date of manufacture.

Unit of Issue – BX (Four (4) each, one (1) gallon containers).

NSN: 7930-01-436-7911

DETERGENT, LAUNDRY: Ecolab Inc., SOLID NAVISOUR, P/N: 16005 or equal with the following requirements and characteristics:

The product shall be a sour/neutralizer that controls the final rinse pH to prevent skin irritation and to condition linens. The product shall contain iron controlling agents to prevent yellowing and static control agents to minimize static. The product, and the container, shall be compatible with the Ecolab SOLID SYSTEM III DISPENSER.

The product shall also have the following physical properties:

pH – Approx 2.4 @ 1% solution

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – BX (two (2) each, six (6) pound capsules per box).

NSN: 7930-01-436-7958

CLEANING COMPOUND, TOILET BOWL: Mirandy Products Ltd.; MIRABOWL QC; P/N MBQC07 or equal with the following requirements and characteristics:

The material shall be highly concentrated and yield 55 gallons of usable product when properly diluted. The product shall be a multi-level waste management and odor control system for use in aircraft lavatories. The product shall be capable of cleaning and deodorizing the complete lavatory system.

The product shall also have the following physical properties and contain the materials in the quantities specified:

Component	CAS #
DIETHYLENE GLYCOL MONOBUTYL ETHER	112-34-5
TRIETHANOLAMINE	121-44-8
QUATERNARY	6839-10-15/68995-67-96

pH – approx – 9.5

Specific Gravity: - approx. 1.037 gm/cc

Deodorize up to 15 hours

Clean and remove sludge and scale from tanks, pump filters and pumps

Lubricate and deodorize o-rings

Clean sensors in vacuum systems

Soften water

Unclog flush rings

Burnish toilet bowls and splash pans

The material shall meet or exceed the following aircraft manufacturer and aviation industry requirements:

Boeing D6-17487

Douglas CSD-3

Aerospace Material Specification 1476A

Embraer SNL 145-38-0001

Air Canada Anti-Microbial Test 3125-00-002

World Health Organization Anti-microbial Requirements

Monogram Services Lavatory Tank Soak Test

EDO Fiber Science Adhesive Soak Test

Kaiser Electroprecision Valve o-rings & seals Soak Test

Shelf life code: 4. Maximum age on delivery shall not exceed two (2) months from date of manufacture.

Date of re-inspection shall be twelve (12) months after date of manufacture.

Unit of issue – CN (Seven (7) gallon can).

NSN: 7930-01-436-7971

CLEANING COMPOUND, SOLVENT-DETERGENT: LPS Laboratories Inc.; NoFlash Electro Contact Cleaner, P/N: 04016 or Rite-Kem Inc., Instant Contact Cleaner, or equal with the following characteristics:

The material shall be a fast-evaporating, nonflammable, non-conductive, contact cleaner that penetrates and cleans without leaving a residue. The product shall not contain CFCs or any Class I or II ozone depleting substances.

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

COMPOUND	CAS	% WEIGHT
1,1,1,2-Tetrafluoroethane	811-97-2	25 - 50%
1-Bromopropane	106-94-5	50 - 75%
N-Propanol	71-23-8	1-5%

Specific Gravity: - 1.29-1.32@20°C

The product shall have a Dielectric Strength and Breakdown Voltage of no less than 9,000 Volts, tested in accordance with ASTM D-877.

Shall meet or exceed the following specifications:

Boeing D6-17487 Rev P

McDonnell Douglas CSD #1

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – BX (twelve (12) each, fifteen (15) ounce aerosol cans per box).

NSN: 7930-01-436-7991

CLEANING COMPOUND, SOLVENT-DETERGENT: NIB Houston; DIVERSY GP FORWARD, P/N 04518 or equal, with the following requirements and characteristics:

The product shall be a concentrated, biodegradable, general purpose cleaner for water-safe surfaces including floors, walls, counter tops, sinks and ceramics. It shall have a fresh citrus scent and be kosher approved.

The product shall be biodegradable by EPA/OECD test methods.

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Approx Wt. %
Alcohol Ethoxylates	68439-46-3	1-5

pH – approx – 12.9

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – BX (four (4) one (1) gallon containers per box).

NSN: 7930-01-436-8050

DETERGENT, LAUNDRY: The product shall be Ecolab Inc., SOLID SURGE PLUS NP, P/N: 17905 or equal with the following requirements and characteristics:

The product shall be a one-shot detergent which combines alkalinity, water conditions, a wetting agent, fragrance and fabric brightener. It shall be compatible for use with hospitality and healthcare linens. The product shall have a non-phosphate formula. The product provided shall work with the Ecolab SOLID SYSTEM III DISPENSER.

The product shall also have the following physical properties and contain the materials in the quantities specified:

Component	CAS #	Approx Wt. %
Sodium Hydroxide	1310-73-2	42
Alcohols, C12-16, Ethoxylated	68551-12-2	5-20
Sodium Carbonate	497-19-8	5-20

Physical state: solid (cast solid)
 pH – approx – 11.8 to 13 [Conc. (% w/w): 1%]

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – BX (Four (4) each, nine (9) pound capsules per box).

NSN: 7930-01-438-6461

COLLAPSABLE WALL, PORTABLE: New Pig, PIG® Collapse-a-tainer® Containment System, P/N: PAK593 or equal, with the following requirements and characteristics:

- The product shall have collapsible sidewalls with counterbalanced outside locking supports; yet folds so you can drive your truck or forklift in the unit.
- Holds 748 gallons or 4 pallets with 4 drums each.
- For use under storage tanks, tote tanks, pillow tanks, pallets loaded with drums.
- Inside dimensions 10' x 10' x 1'
- Overall Outside Dimensions Accounting For Straps : 12' x 12' (Straps Account for 1' On Each Side)
- Folded dimensions : 30"W x 32"L x 10"H
- 30 mil thick min.

Unit of issue – EA (One (1) unit).

NSN: 7930-01-442-5892

CLEANER, INDUSTRIAL, MULTI PURPOSE: JAD Chemical Co. Inc., P/N: MA-110RTU and shall meet the following minimum requirements:

This description is for a turbine engine gas path cleaning compound for use in cleaning off-line (starter cranked) and on-line (fired) engines. The single product shall meet the requirements of in the most recent revision of MIL-PRF-85704, Cleaning Compound, Turbine Engine Gas Path, for both a Type II RTU & III RTU cleaner. The product shall be listed as meeting both types in the latest revision of the Qualified Products List QPL-85704, (replaced by the Qualified Products Database) Cleaning Compound, Turbine Engine Gas Path.

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The product shall not contain any hazardous materials that require listing on the material safety data sheet in accordance with 29 CFR 1910.1200. All items packed in open head pails of 4 to 6 gallon capacity shall have the pails marked with Child Drowning Warning Labels to comply ASTM F 1615. ASTM standards are available from ASTM, 100 Barr Harbor Dr., West Conshohocken, PA 19428.

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – CN (five (5) gallon can).

NSN: 7930-01-442-5894

CLEANER, INDUSTRIAL, MULTI PURPOSE: JAD Chemical Co. Inc., P/N: MA-110RTU and shall meet the following minimum requirements:

This description is for a turbine engine gas path cleaning compound for use in cleaning off-line (starter cranked) and on-line (fired) engines. The single product shall meet the requirements of MIL-PRF-85704C, dated July 15, 1998, Cleaning Compound, Turbine Engine Gas Path, for both a Type II RTU & III RTU cleaner. The product shall be listed as meeting both types in the latest revision of the Qualified Products List QPL-85704-8, NOT 1, (replaced by the Qualified Products Database) dated Aug 10, 2010, Cleaning Compound, Turbine Engine Gas Path.

The product shall be biodegradable by EPA/OECD test methods.

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The product shall not contain any hazardous materials that require listing on the material safety data sheet in accordance with 29 CFR 1910.1200.

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – DR (Fifty-five (55) gallons.)

NSN: 7930-01-442-5969

GLASS CLEANER: Shall be NSL Aerospace or Airmart, Inc., P/N: AK-MFD-1, with the following requirements and characteristics:

Solution saturated towelettes for cleaning KC-135 Active Matrix-Liquid Crystal Displays (AMLCD). The product meets the requirements set forth by the C/KC-135 Engineering, AFLCMC/WKDAA. The product shall be qualified by the KC-135 System Program Office, OC-ALC/LCM, Tinker AFB.

C/KC-135 Eng and Tech Support
AFLCMC/WKDAA
[\(405\) 736-5214](tel:4057365214)
DSN 336-5214

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – BX (three hundred (300) packets per box).

NSN: 7930-01-454-1138

TOWELETTE, CLEANING: Winston-Salem Industries for the Blind, COMPUTER SCREEN WIPES, with the following requirements and characteristics:

The individual wipes are 6.3" X 6.25" premoistened, anti-static, computer screen wipes. The wipes are non-abrasive and lint free. The wipes are effective for removing dirt and smudges from LCD as well as cathode ray tube (CRT) screens.

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – BX (twelve (12) each pop-up containers with fifty (50) wipes per pop-up container)

NSN: 7930-01-454-1159

TOWELETTE, CLEANING: Winston-Salem Industries for the Blind; WHITEBOARD WIPES, or equal with the following characteristics:

The product shall be soft absorbent pre-moistened towelettes, treated for cleaning white marking boards. It shall eliminate ghosting, shadowing, residues, stains, and stubborn marks. The size of each towelette shall be approximately 6.3 inch by 6.25 inch.

Unit of issue – BX (Twelve (12) each pop-up dispensers with fifty (50) towelettes per pop-up dispenser.)

NSN: 7930-01-455-9536

ABSORBENT MATERIAL, OIL AND WATER: The product shall be an absorbent material that can be used for the universal absorbency of water, oil, solvents, etc. The material shall be furnished in rolls that are 30 inches wide by 150 feet long. Each roll shall be capable of absorbing a minimum 41 gallons. The roll shall be perforated every 10 inches for tearing.

Unit of issue – RO (One hundred fifty (150) feet X thirty (30) inch roll).

NSN: 7930-01-471-2724

CLEANER, INDUSTRIAL, MULTI PURPOSE: Permatex, Inc., EARTH SOAP, P/N 27955 or equal, with the following requirements and characteristics:

The product shall be a concentrated biodegradable cleaner/degreaser. The material shall not contain solvents, butyl, phosphates, ozone depleting substances, SARA Title III 313 chemicals, free acid or alkali.

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The product shall be biodegradable by EPA/OECD test methods.

The material shall also have the following properties and contain the materials listed in the quantities specified:

Component	CAS #	Wt %
Alcohols, C9-11, Ethoxylated	68439-46-3	1-3
Ethanolamine	141-43-5	1-5
Methyl Dihydroxyethylisodecylpropyl Ammonium Chloride	68478-94-4	1-3
Proprietary Sugar Derivate	proprietary	1-3

Flash Point: Not less than 166°F/74.4°C (TCC)

Boiling Point: approx 212°F/100°C

Freezing Point: approx 32°F/0°C

pH – approx - 9.8

Specific Gravity: - approx - 1.023 g/ml

CLEANING PERFORMANCE:

The product shall clean hard surfaces effectively by demonstrating that it performs as well as, or better than, the standard test product, as measured by test method A5 "particulate and oily soil/vinyl tiles" specified in the most current version of ASTM D4488, "Standard Guide for Testing Cleaning Performance of Products Intended for Use on Resilient Flooring and Washable Walls."

Standard Test Product:

EARTH SOAP, P/N 27955

Copies of ASTM test methods may be obtained from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959 Website: <http://www.astm.org>

Shelf life code: 8. Maximum age on delivery shall not exceed seven (7) months from date of manufacture. Date of re-inspection shall be forty-eight (48) months after date of manufacture.

Unit of issue – DR (Fifty-five (55) gallon drum).

NSN: 7930-01-486-5067

FINISH, FLOOR, NONBUFFING: NIB HOUSTON (DIVERSY INC, CAREFREE, P/N 5432) with the following requirements and characteristics:

The product shall be a floor sealer/finish that will work with conventional, high speed, or UHS equipment and maintenance procedures. It shall be designed for use on any resilient floors and non-resilient floors, including vinyl, vinyl composition, vinyl, asbestos, asphalt tile, rubber, terrazzo, slate brick, unglazed ceramic or quarry tile, honed marble and honed granite.

The product shall also have the following physical properties and contain the materials in the quantities specified:

Component	CAS #	Approx Wt. %
Ethylene Glycol 2-Ethylhexyl Ether	1559-35-9	1-5
Diethylene Glycol Monoethyl Ether	111-90-0	1-5

pH – approx – 8.8

Specific Gravity: - approx. 1.029 gm/cc

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – BX (four (4) one (1) gallon containers per box).

NSN: 7930-01-487-6098

LIQUID CLEANER, GRIDDLE: Shall be NIB WICHITA FALLS, P/N 7930014876098, or equal, with the following characteristics:

3M Scotch-Brite QUICK CLEAN GRIDDLE LIQUID No. 700. Safe for use on food contact surfaces; loosens and lifts carbonized grease and food soils. Contains no strong chemical odors or irritating fumes. Shall not contain caustic soda.

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Approx Wt. %
Glycerin	556-81-5	40-70
Water	7732-18-5	10-30
Potassium Carbonate	584-08-7	7-13
Sodium Carbonate	497-19-8	1-5
Tartrazine	1934-21-0	0.1-1.0

pH: approx – 12

Specific Gravity: - approx. 1.3 gm/cc.

Unit of issue – BX (sixty (60) 3.2 ounce packets per box).

NSN: 7930-01-490-7282

DISHWASHING COMPOUND, HAND: Antibacterial Dishwashing and Hand Soap with the following requirements and characteristics:

The product shall be a concentrated liquid dishwashing detergent designed for hand washing dishes, pots, pans, and other kitchenware. The product, when used as hand soap, shall be antibacterial.

The product shall not be regulated for transportation as a DOT hazardous material.

Unit of issue - BX (eight (8), Thirty eight (38) ounce containers per box.)

NSN: 7930-01-490-7301

DETERGENT, LAUNDRY: ABVI-Goodwill, (XLD) Biobased Powdered Laundry Detergent with Bleach or equal with the following requirements and characteristics:

The product shall be a powdered laundry detergent that contains color safe bleach. Each box of 214 ounces will provide for 95 standard uses. The product shall not contain phosphate and shall be harmless to septic tanks. The detergent shall remove tough stains, whiten whites and keep colors bright.

The product shall also have the following physical properties:

The laundry product shall have a minimum biobased content of 34% and shall be based on the amount of qualifying biobased carbon in the finish product as a percent of the weight (mass) of the total organic carbon in the finished product as specified by the Department of Agriculture Designation of Biobased Items for Federal Procurement: Final Rule (Federal Register, Vol. 71, No. 51, March 16, 2006.

Reserve alkalinity – 5-15 g NaOH/100ml (at pH=9.5)

pH (1% solution)- 10-12

PERFORMANCE REQUIREMENT

The product shall clean household laundry effectively. Performance of the offered product shall be demonstrated by comparison tests conducted in accordance with ASTM D 4265-98, Standard Guide for Evaluating Stain Removal Performance in Home Laundering. A product meeting the performance criteria

shall have a stain removing performance equal to or greater than that of the stain removing performance of the standard test product identified below.

Standard Test Product:

Biobased Laundry Detergent with Bleach
(XLD) ABVI-Goodwill
Rochester, NY

The following stains on both polyester and cotton shall be used: make-up, grape juice, spaghetti sauce, blood, grass, ball point pen ink, and modified artificial sebum and particulate soil for staining.

Copies of ASTM test methods may be obtained from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959

Website: <http://www.astm.org>

Shelf life code: H. Maximum age on delivery shall not exceed two (2) months from date of manufacture. Date of expiration shall be twelve (12) months after date of manufacture.

Unit of issue – PG - (Package of two (2) each, two hundred and fourteen (214) ounces containers)

NSN: 7930-01-494-0067

DISHWASHING COMPOUND, HAND: ECOLAB, Apex Manual Detergent, P/N 10362 or equal, with the following requirements and characteristics:

The product shall be a manual detergent for washing pots and pans. The detergent shall contain a combination of nonionic and anionic surfactants formulated to provide grease-cutting and sudsing ability under heavy soil conditions.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Approx Wt. %
Sodium Dodecylbenzenesulfonate	25155-30-0	41
Poly(Oxy-1,2-Ethanediy), .Alpha.-Sulfo-.Omega.-Hydroxy-, C10-16- Alkyl Ethers, Sodium Salts	68585-34-2	5-20
Sodium Acetate	127-09-3	5-20
Lauramide Mea	142-78-9	5-20
Cocamide Mea	68140-00-1	1-5
Lauryl Polyglucose	110615-47-9	1-5
Sodium Silicate	1344-09-8	1-5

pH – Approx 8.5 @ 1% solution

Specific Gravity - Approx 1.1

Unit of issue – BX (two (2) each, three (3) pound containers per box).

NSN: 7930-01-494-2985

DETERGENT, GENERAL PURPOSE: NIB Rochester, NY; ECOLAB, OMNI PAK, HEAVY-DUTY DETERGENT, P/N 61191383 or equal, with the following requirements and characteristics:

The product shall be a high alkaline, multipurpose detergent and odor counteractant in pre-measured, water-soluble packets. It shall cut through grease residue quickly and leave no film.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Approx Wt. %
Sodium Carbonate	497-19-8	>50
Citric Acid	77-92-9	5-20
Alcohols, C12-16, Ethoxylated	68551-12-2	5-20
Sodium Metasilicate	6834-92-0	5-20
Alcohols, C12-18, Ethoxylated Propoxylated	69227-21-0	1-5
Alcohols, C12-14-Secondary, Ethoxylated	84133-50-6	1-5
Calcium Silicate	1344-95-2	1-5

pH – approx - 11.3 Conc. (% w/w): 1%]

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – BX (Four (4) pails, each containing ninety (90) one-half (1/2) ounce packets for a total of 360 each)

NSN: 7930-01-494-2986

DETERGENT, LAUNDRY: ECOLAB, BRITE WHITE-NP, P/N: 61502222 or equal; supplied by NIB Rochester, NY, as P/N 7930014942986 and shall have the following requirements and characteristics:

The product shall be an enzyme powered laundry detergent that offers excellent stain removal while reducing the need for presoaking, pre-spotting and bleaching. It shall be in pre-measured, water soluble packets.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Approx Wt. %
Sodium Dodecylbenzene Sulfonate	25155-30-0	10
Sodium Carbonate	497-19-8	20-50
Disodium Metasilicate	6834-92-0	5-20
Alcohols, C12-16, Ethoxylated	68551-12-2	5-20
Precipitated Silica	112926-00-8	1-5

pH – approx - 11.6 Conc. (% w/w): 1%

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – BX (Two hundred fifty (250) one and two tenth (1.2) ounce packets per container).

NSN: 7930-01-494-2987

DETERGENT, GENERAL PURPOSE: ECOLAB, GENIE PAC PANTASTIC, MANUAL DETERGENT, P/N: 12227 or equal, supplied by NIB Rochester, with the following characteristics:

The product shall be a concentrated pot and pan detergent. It shall deliver superior grease-cutting and long lasting suds. It shall be packaged in pre-measured, water soluble packets.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Approx Wt. %
Sodium Dodecylbenzene Sulfonate	25155-30-0	6
Sodium Carbonate	497-19-8	5-20
Citric Acid	77-92-9	5-20
Sulfuric Acid, Mono-C10-16-Alkyl Esters, Sodium Salts	68585-47-7	5-20
Sodium Sesquicarbonate	533-96-0	5-20
Sodium Xylene Sulfonate	1300-72-7	5-20
Lauramide mea	142-78-9	1-5
Cocamide dea	68603-42-9	1-5

Ph: 7.5 to 9.5 [Conc. (% w/w): 1%]

Solubility: Soluble in the following materials: cold water; hot water

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of issue – BX (Two (2) dispenser boxes, each containing ninety (90) one-half (1/2) ounce packets)

NSN: 7930-01-504-8866

TOWELETTE, CLEANING: Shall be GOJO Industries, Fast Wipes Hand Cleaning Towels, P/N 6298-04 or equal with the following requirements and characteristics:

One-hundred thirty (130) 9-1/4" X 10" pre-moistened, high-strength, disposable towels saturated with hand cleaner for removing grease, grime, oil and ink from hands without skin irritation. The wipes shall be in a pop-up type, handled pail container.

The product shall also have the following physical properties and contain the materials in the quantities specified:

Component	CAS #	Approx Wt. %
Denatured Alcohol	64-17-5	5%
D-Limonene	5989-27-5	

pH: approx - 8

Odor: orange fragranced

The wipes shall comply with the Federal Food, Drug, and Cosmetic Act and the regulations published under the Act (21 CFR Part 1, General Enforcement Regulations of the Federal Food, Drug, and Cosmetic Act).

Shelf life code: 7. Maximum age on delivery shall not exceed five (5) months from date of manufacture. Date of re-inspection shall be thirty-six (36) months after date of manufacture.

Unit of issue – BX – Four (4) each, pop-up containers per box. (One-hundred thirty (130) towels in each "pop-up" container.)

NSN: 7930-01-512-8969

CLEANING COMPOUND, SOLVENT DETERGENT: NIB St. Louis, OFFICE PLUS, P/N 184000 or equal with the following requirements and characteristics:

The product shall be an aerosol cleaner with foaming action that removes dust, dirt, and other liquid stains from office furniture, desk tops, cabinets, bookcases, shelves, painted and plastic surfaces. It shall leave behind no residue and be non-oily and non-sticky.

The product shall also have the following physical properties and contain the materials in the quantities specified:

Component	CAS #	Approx Wt. %
Propane	74-98-6	1
Butane	106-97-8	2
Isobutane	75-28-5	2
2-Butoxyethanol	111-76-2	<4

pH – approx – 10

Specific Gravity: - approx. 0.961 gm/cc

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

Shelf life code: 7. Maximum age on delivery shall not exceed five (5) months from date of manufacture. Date of re-inspection shall be thirty-six (36) months after date of manufacture.

Unit of issue – BX (twelve (12) eighteen (18) ounce cans per box).

NSN: 7930-01-513-6864

GLASS CLEANER: NIB St. Louis, P/N 164000, GLASSPRO CLEANER or equal, with the following requirements and characteristics:

Cleans glass, stainless steel and other hard surfaces.

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Approx Wt. %
Propane	74-98-6	<1
Butane	106-97-8	<2
Isobutane	75-28-5	<2
2-Butoxyethanol	111-76-2	<2
Isopropyl Alcohol	67-63-0	1-4

pH: approx – 9.0

Specific Gravity: - approx. 0.948 gm/cc.

Unit of issue – BX (twelve (12) nineteen (19) ounce aerosol containers per box).

NSN: 7930-01-513-9967

CLEANING COMPOUND, SOLVENT-DETERGENT: NIB St. Louis, CLEAN “N” DISINFECT, P/N 204000 or equal, with the following requirements and characteristics:

Cleans, disinfects, and deodorizes. For use in hospitals, nursing homes, schools, hotels, and food processing establishments. Cleans hard, non-porous surfaces.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Approx Wt. %
-----------	-------	--------------

Propane	74-98-6	1
Butane	106-97-8	2
Isobutane	75-28-5	2
2-(2-Butoxyethoxy) Ethanol	112-34-5	<4

pH approx – 11.7

Specific Gravity: approx. 0.961 gm/cc

The product shall be registered and labeled in compliance with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended in accordance with 40 Code of Federal Regulations (CFR) 152-180. This act and regulations promulgated there under is administered by the EPA.

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

Unit of issue – BX (twelve (12) nineteen (19) ounce aerosol containers per box).

NSN: 7930-01-555-2898

GLASS CLEANER: Susquehanna Association for the Blind and Vision Impaired, Ready to Use BioRenewables Glass Cleaner, Spartan P/N: 3239 or equal, with the following requirements and characteristics:

Ready to use glass cleaner designed to clean mirrors, glass, and plexiglass surfaces; contains no ammonia. The product shall contain 81% biobased material.

The product shall also have the following physical properties and contain the materials in the quantities specified.

Component	CAS #	Approx Wt. %
Alkyl Polyglycoside	132778-08-6	<1

pH – approx – 8

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The glass cleaner shall have a minimum biobased content of 49% and shall be based on the amount of qualifying biobased carbon in the finish product as a percent of the weight (mass) of the total organic carbon in the finished product as specified by the Department of Agriculture Designation of Biobased Items for Federal Procurement: Final Rule (Federal Register, Vol. 71, No. 51, March 16, 2006).

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of Issue – BX (Twelve (12) each, thirty-two (32) ounce bottles and twelve (12) trigger sprayers per box).

NSN: 7930-01-555-2899

CLEANING COMPOUND, SOLVENT-DETERGENT: Susquehanna Association for the Blind and Vision Impaired, Graffiti Remover SAC or equal, with the following requirements and characteristics:

Ready to use graffiti remover, with a versatile formula that works against tough marks and stains.

Removes typical graffiti marking; paint, marker, ink, crayon, and pencil marks. The product contains 53% biobased material.

The graffiti remover shall have a minimum biobased content of 34% and shall be based on the amount of qualifying biobased carbon in the finish product as a percent of the weight (mass) of the total organic carbon in the finished product as specified by the Department of Agriculture Designation of Biobased Items for Federal Procurement: Final Rule (Federal Register, Vol. 71, No. 51, March 16, 2006.”

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Approx Wt. %
Petroleum Distillate	64742-47-8	25-35
Soybean Oil Methyl Esters	67784-80-9	25-35
Ethyl Lactate	97-64-3	25-35
Alcohol Ethoxylate	34398-01-1	5-10
1-Undecanol	112-42-5	1-5

Specific Gravity (H₂O=1): 0.8935

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of Issue – BX (Four (4) each, one (1) gallon containers per box).

NSN: 7930-01-555-2900

CLEANING SOLUTION, PORCELAIN: Susquehanna Association for the Blind and Vision Impaired, Ready to Use BioRenewable Bathroom Cleaner, Spartan P/N: 3530 or equal, with the following requirements and characteristics:

The product shall be for use in toilet bowls, urinals; shower rooms (floors/walls) porcelain, ceramic, fiberglass and similar hard, non-porous surfaces. The product shall contain 83% biobased material. Heavy duty ready to use formula, may be diluted for general and light duty use. One (1) foam sprayer per box.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Approx Wt. %
Citric Acid	77-92-9	5-10
Alcohol Ethoxylate	68439-46-3	1-5

pH – approx – 1.5 – 2.5

Specific Gravity: - approx. 1.04 gm/cc

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The bathroom and spa cleaner shall have a minimum biobased content of 83% and shall be based on the amount of qualifying biobased carbon in the finish product as a percent of the weight (mass) of the total organic carbon in the finished product as specified by the Department of Agriculture Designation of Biobased Items for Federal Procurement: Final Rule (Federal Register, Vol. 71, No. 51, March 16, 2006. Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of Issue – BX (Twelve (12) each, thirty-two (32) ounce bottles)

NSN: 7930-01-555-2901

CLEANER, INDUSTRIAL, MULTI PURPOSE: Susquehanna Association for the Blind and Vision Impaired, TriBase Multi-Purpose Cleaner, Spartan P/N 3830 or equal, with the following requirements and characteristics:

The product shall be a multi-purpose cleaner that can be used to clean a variety of soils found on many surface types. It shall be capable of being used on glass, mirrors, floors, walls, restrooms, kitchen surfaces, and tile. The product shall contain 72% biobased material.

The multipurpose cleaner shall have a minimum biobased content of 56%. That percentage shall be based on the amount of qualifying biobased carbon in the finish product. The percentage of the weight (mass) of the total organic carbon in the finished product is specified by the Department of Agriculture Designation of Biobased Items for Federal Procurement: Final Rule (Federal Register, Vol. 71, No. 51, March 16, 2006.)

The product shall meet the volatile organic content (VOC) specified under the California Volatile Organic Compound (VOC) Emissions for Consumer Products requirements.

The product shall have the following physical properties and contain components that approximate the performance of the materials identified below:

Component	CAS #	Approx Wt. %
Alkyl Polyglycoside	68515-73-1	1-5
Alcohol Ethoxylate	68991-48-0	1-5
Ethoxylated Alkyl Quaternary	61791-10-4	1-5
Alkyl Polyglucoside	110615-47-9	1-5
Fragrance	Proprietary	<1.0

pH: Undiluted 8.0-9.0

Diluted 1:64: 7.0-8.0

Specific Gravity (H₂O) = 1): 1.005

Shelf life code: 6. Maximum age on delivery shall not exceed three (3) months from date of manufacture. Date of re-inspection shall be twenty-four (24) months after date of manufacture.

Unit of Issue – BX (Four (4) each, one (1) gallon containers).

NSN: 7930-01-581-9933

POLISH, PLASTIC: Shall be Whiz Aircraft Cleaning Compound, P/N 5602260, with the following characteristics:

This polish is intended for use on F-16 aircraft canopies.

The product shall be approved for use as a TYPE II POLISH for aircraft canopies as identified in USAF VENDOR ITEM CONTROL DRAWING 200925154-03. The product shall not have been altered since approval.

Unit of issue – BX (Twelve (12) each, Sixteen (16) ounce containers per box).