

**San Francisco Department of the Environment Regulations**  
Precautionary Purchasing Ordinance (S.F. Environment Code §§ 200 et seq.)

Adopting Approved Alternative Products for

1) Compostable Plastic Bags	Regulation #SFE-20-01-PPO
2) Electronic Equipment	Regulation #SFE-20-02-PPO
3) Furniture (Upholstered Seating)	Regulation #SFE-20-03-PPO
4) Janitorial Cleaning Products	Regulation #SFE-20-04-PPO
5) Janitorial Papers	Regulation #SFE-20-05-PPO
6) Lighting Equipment	Regulation #SFE-20-06-PPO
7) Office Supplies	Regulation #SFE-20-07-PPO
8) Paints and Primers (Interior Latex for Wall and Ceiling)	Regulation #SFE-20-08-PPO
9) Resilient Flooring	Regulation #SFE-20-09-PPO

Effective **XX/XX/XX**

**A. AUTHORIZATION**

The Board of Supervisors and Mayor enacted the Precautionary Purchasing Ordinance, effective July 18, 2005 (the "Ordinance"). The Ordinance is codified as Chapter 2 of the Environment Code. The Ordinance created a comprehensive new system for the City to identify and use environmentally preferable products based on goals and criteria established by the Ordinance. The Ordinance required the Director of the Department of the Environment to consolidate existing environmentally preferable purchasing requirements from other Code sections into regulations. In December 2013, the Director promulgated regulations to adopt guidelines as required by the Ordinance. The regulations below are implemented pursuant to Environment Code Section 203. These regulations supersede and replace the following regulations: Compostable Bags (#SFE-13-02-PPO), Computer Desktops, Laptops, Monitors (#SFE-13-03-PPO), Janitorial Cleaners (#SFE-13-04-PPO), Hand Dishwashing Detergents (#SFE-13-05-PPO), Hand Sanitizers (#SFE-13-06-PPO), and Lighting (lamps, ballasts).(#SFE-13-07-PPO).

**B. DEFINITIONS**

Antimicrobial chemicals: Chemicals intended to disinfect, sanitize, reduce, or mitigate growth or development of microbiological organisms, or protect inanimate objects, industrial processes or systems, surfaces, water, or other chemical substances from contamination, fouling, or deterioration caused by bacteria, viruses, fungi, protozoa, algae, or slime.

Flame retardant chemicals: Any chemical or chemical compound for which a functional use is to resist or inhibit the spread of fire. Flame retardant chemicals include, but are not limited to, halogenated, phosphorous-based, nitrogen-based, and nanoscale flame retardants, flame retardant chemicals listed as "designated chemicals" pursuant to Section 105440 of the Health and Safety Code, and any chemical or chemical compound for which "flame retardant" appears on the substance Safety Data Sheet (SDS) pursuant to Section 1910.1200(g) of Title 29 of the Code of Federal Regulations.

Formaldehyde: A colorless, flammable gas at room temperature, used to produce resins for composite wood products (e.g., plywood, particle board, medium density fiberboard), as an intermediate in the synthesis of other chemicals, and in some fabrics.

Halogenated flame retardant chemical (also known as organohalogen flame retardant chemical): Any chemical or chemical compound containing chlorine or bromine bonded to carbon for which a functional use is to resist or inhibit the spread of fire. This includes any chemical or chemical compound containing chlorine or bromine bonded to carbon for which "flame retardant" appears on the substance Safety Data Sheet (SDS) pursuant to Section 1910.1200(g) of Title 29 of the Code of Federal Regulations.

Per- and poly-fluoroalkyl substances (PFASs): a class of fluorinated organic chemicals containing at least one fully fluorinated carbon atom.

Volatile Organic Compounds (VOCs): VOCs are defined by the California Standard Method for Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental

Chambers as carbon-containing compounds (excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides and carbonates and ammonium carbonate) with vapor pressures at standard conditions approximately ranging between those for n-pentane through n-heptadecane. Formaldehyde and acetaldehyde are considered to be VOCs.

**C. REQUIREMENTS**

The attached regulations set forth the scope and requirements pertaining to the product categories in those regulations, and are subject to the requirements of the Ordinance, including the definitions, requirements pertaining to waivers, and enforcement mechanisms set forth in the Ordinance. The regulations do not duplicate the Ordinance, and must be read together with it. Unless otherwise defined herein, words used in these regulations shall have the same meanings as those words in the Ordinance.

**D. ENFORCEMENT**

*These regulations have the full force and effect of law. A violation of these regulations is enforceable pursuant to Environment Code section 208.* The Director of the Department of the Environment hereby adopts these regulations, effective as of **XXXXDATEXXX**.

Deborah O. Raphael

Director Department of the Environment

Approved:  
Sign here

Date:

**Regulation #SFE-20-01-PPO (Replacing Regulation #SFE-13-02-PPO)**  
 Approved Alternative Products for: **Compostable Plastic Bags**

PURCHASING REQUIREMENTS FOR CITY DEPARTMENTS

**Compostable plastic bags**

1. Must meet the following identifying requirements:
  - a. Be certified compostable by a third-party independent verification entity such as the Biodegradable Products Institute (BPI, [bpiworld.org](http://bpiworld.org)), proving that the finished product meets ASTM D6400 standard of compostability.
  - b. Be “readily and easily identifiable” as compostable and conform to the minimum standards of the California labeling law (Public Resources Code Section 42355 et seq.).
  - c. Must not be labeled “biodegradable,” “oxy-degradable,” “decomposable,” or “degradable.”

**Regulation #SFE-20-02-PPO (Replacing Regulation #SFE-13-03-PPO)**  
 Approved Alternative Products for: **Electronic Equipment**

PURCHASING REQUIREMENTS FOR CITY DEPARTMENTS

**Electronic equipment**, including, but not limited to desktops, laptops, tablets, computer monitors, servers, imaging equipment, televisions and large displays:

1. Must meet San Francisco Committee on Information Technology (COIT)/SF Approved’s Environmentally Preferable Green Technology Purchasing Requirements.

**Regulation #SFE-20-03-PPO (Replacing Regulation #SFE-13-06-PPO)**  
 Approved Alternative Products for: **Furniture (Upholstered Seating)**

PURCHASING REQUIREMENTS FOR CITY DEPARTMENTS

**1. Upholstered seating**, including fabrics used for the upholstery and reupholstery, must comply with restrictions on the chemicals of concern listed below. Salvaged and refurbished furniture more than one-year old at the time of reuse is also considered compliant, provided that any site-applied paints, coatings, adhesives, and sealants meet the following requirements.

**2. Definitions**

Component: The separate constituent parts of furniture, including, but not limited to, cover fabrics, barrier materials, resilient filling materials, decking materials, and plastic parts.

Upholstered seating: As defined pursuant to California Business and Professions Code Section 19006, upholstered furniture (referred to herein as “upholstered seating”) includes products that “can be used as a support for the body of a human being, or his or her limbs and feet when sitting or resting in an upright or reclining position.” This does not include furniture used exclusively for the purpose of physical fitness and exercise, nor furniture meant for purposes other than to support the human body, such as tack walls.

**3. Requirements**

Restricted Chemicals	Requirement(s) for Upholstered Seating
3.1. Flame retardant chemicals	3.1.1 Must be labeled as not containing flame retardant chemicals, consistent with the manner described in Section 19094 of the California Business and Professions Code. 3.1.2 Must have less than 1,000 parts per million of flame retardant in individual standard and optional components, excluding electrical components.

	3.1.3 Where flame retardant chemicals are required to meet code or regulation (e.g., TB 133 or ASTM E 1537), upholstered furniture and its fabrics must have less than 1,000 parts per million of a halogenated flame retardant chemical by weight of the homogeneous material, excluding electrical components. Products that contain flame retardant chemicals that have been fully assessed using GreenScreen v1.2 (or newer) and meet the criteria for benchmark 2, 3, or 4 are preferred but not required.
3.2. Formaldehyde and Volatile Organic Compounds (VOC's)	<p><i>Must meet one of the following standards or certifications:</i></p> <p>3.2.1 Complies with ANSI/BIFMA e3-2019 Furniture Sustainability Standard, Sections 7.6.1 and 7.6.2, using either the concentration modeling approach or the emissions factor approach. Test results must be modeled using the open plan, private office, or seating scenario in ANSI/BIFMA M7.1, as appropriate; OR</p> <p>3.2.2 Certified Greenguard Gold; OR</p> <p>3.2.3 Certified SCS Indoor Advantage Gold.</p> <p><i>In addition, all composite wood materials in upholstered furniture, including plywood, particleboard, and medium density fiberboard, must be:</i></p> <p>3.2.4 Certified and labeled as compliant to the US EPA TSCA Title VI label 40CFR 770 and the CARB ATCM #93120 Phase 2 of California's Code of Regulations, Title 17 §93120.2 – Airborne Toxic Control Measure to Reduce Formaldehyde Emissions from Composite Wood Products.</p>
3.3. Per and Poly-Fluoroalkyl Substances (PFAS) used in stain/water/oil resistant treatments	3.3.1. Must be free of any long- and/or short-chain per- and poly-fluorinated alkyl compounds and fluorinated polymers used as stain, water, or oil resistant treatments at or above 100 ppm by weight of the homogenous material.
3.4. Antimicrobials	<p>3.4.1 Must be free of any added or built-in chemical antimicrobials, except as provided in 3.4.2.</p> <p>3.4.2 May include antimicrobials added to raw materials for the sole purpose of preserving the product, with the exception of triclosan and triclocarban, which are explicitly prohibited.</p>
3.5. Polyvinyl Chloride (PVC)	3.5.1 Must contain less than 1% (one percent) of polyvinyl chloride (PVC) by weight, excluding electrical components.

#### 4. Documentation of compliance

Documentation is required to demonstrate compliance with the requirements in Section 3 above. Acceptable documentation of compliance includes at least one of the following:

- 4.1 Furniture is certified under the GreenScreen Certified standard for Furniture and Fabrics Version 1 or higher at the Bronze level, and is listed on the GreenScreen Furniture and Fabric Certification list of certified products; OR
- 4.2 Furniture is certified by the BIFMA LEVEL program as meeting ANSI/BIFMA e3-2019 Furniture Sustainability Standard, as credit 7.4.4- Targeted Chemical Elimination; OR
- 4.3 Furniture is certified as meeting ANSI/BIFMA e3-2019 Furniture Sustainability Standard, as credit 7.4.4- Targeted Chemical Elimination, by a third-party certification body deemed acceptable by the San Francisco Department of the Environment; OR
- 4.4 Furniture is certified as meeting the requirements in Section 3 above by a third-party certification body deemed acceptable by the San Francisco Department of the Environment; OR
- 4.5 Furniture is registered as meeting the above requirements by another organization deemed acceptable by the San Francisco Department of the Environment and listed on sfapproved.org.

**Regulation #SFE-20-04-PPO (Replacing Regulations #SFE-13-04-PPO and #SFE-13-05-PPO)**

Approved Alternative Products for: **Janitorial Cleaning Products**

PURCHASING REQUIREMENTS FOR CITY DEPARTMENTS

All janitorial cleaning products must meet the following criteria. These purchasing requirements do not apply to surface disinfectants and sanitizers. The Department of the Environment will grant an exception only after the Department has confirmed that a product substantially meets the City’s environmental and health goals.

Product subcategory	Requirement(s) and Ecolabel Certification(s)
1. General purpose cleaners	<p>1.1 Must not be in aerosol containers;</p> <p>1.2 Concentrated cleaning chemicals must be in a spill-resistant package that prevents access to the undiluted chemical; and</p> <p>1.3 Must be currently certified by at least one of the following:</p> <ul style="list-style-type: none"> <li>a. Cradle to Cradle Certified Gold level or higher, version 3.1 or later</li> <li>b. Green Seal</li> <li>c. Safer Choice</li> <li>d. UL ECOLOGO.</li> </ul> <p><i>General purpose cleaners include both concentrated and ready-to-use:</i></p> <ul style="list-style-type: none"> <li>• Bathroom cleaners (non-disinfecting/non-sanitizing), including grout cleaners and toilet cleaners;</li> <li>• Carpet, rug and upholstery cleaners, including concentrated pre-spray, spot and stain removers, carpet shampoos and bonnet cleaners;</li> <li>• Cleaner-degreasers;</li> <li>• Enzymatic restroom cleaners;</li> <li>• Floor cleaners (including concentrated neutral floor cleaners, dust and damp mop cleaners);</li> <li>• Multipurpose cleaners, including peroxide-based cleaners; and</li> <li>• Glass cleaners.</li> </ul>
2. Hand soaps	<p>2.1 Must contain no antimicrobial ingredients; and</p> <p>2.2 Must be currently certified by one of the following:</p> <ul style="list-style-type: none"> <li>a. Cradle to Cradle Certified Gold level or higher, version 3.1 or later</li> <li>b. Green Seal</li> <li>c. UL ECOLOGO</li> <li>d. US EPA Safer Choice Program.</li> </ul> <p><i>Hand soaps include:</i> Both foaming and non-foaming liquid formulations.</p>
3. Hard floor care products	<p>3.1 Must not be offered in aerosol containers;</p> <p>3.2 Concentrated cleaning chemicals must be in a spill-resistant package that prevents access to the undiluted chemical; and</p> <p>3.3 Must be currently certified by one of the following:</p> <ul style="list-style-type: none"> <li>a. Cradle to Cradle Certified Gold level or higher, version 3.1 or later</li> <li>b. Green Seal</li> <li>c. UL ECOLOGO</li> <li>d. US EPA Safer Choice Program.</li> </ul> <p><i>Hard floor care products include concentrated and ready-to-use:</i></p> <ul style="list-style-type: none"> <li>• Floor polishes, finishes and waxes;</li> <li>• Floor strippers/removers; and</li> <li>• Floor polish restorers and maintainers.</li> </ul>

Product subcategory	Requirement(s) and Ecolabel Certification(s)
4. Specialty cleaners	<p>4.1 Concentrated cleaning chemicals must be in a spill-resistant package that prevents access to the undiluted chemical; and</p> <p>4.2 Must be currently certified by one of the following:</p> <ol style="list-style-type: none"> <li>a. Cradle to Cradle Certified Gold level or higher, version 3.1 or later</li> <li>b. Green Seal</li> <li>c. UL ECOLOGO</li> <li>d. US EPA Safer Choice Program.</li> </ol> <p><u>Specialty cleaners include ready-to-use, non-disinfecting cleaners in the following categories:</u></p> <ul style="list-style-type: none"> <li>• Abrasive powdered cleaners</li> <li>• Air conditioner coil cleaners</li> <li>• Appliance cleaners</li> <li>• Boat and bilge cleaners</li> <li>• Brick and masonry cleaners</li> <li>• Calcium, lime and rust removers/descalers</li> <li>• Carpet cleaners and stain removers</li> <li>• Cream cleansers Deodorizers</li> <li>• Dish/dishware washing detergents and rinse aids (hand or automatic in liquid, gel or powder form)</li> <li>• Drain cleaners</li> <li>• Dry erase board cleaners</li> <li>• Furniture/wood cleaners/polishes</li> <li>• Gum and adhesive removers</li> <li>• Mold and mildew removers</li> <li>• Oven/grill/BBQ cleaners</li> <li>• Stainless steel/metal cleaners/polishes</li> <li>• Stone cleaners</li> <li>• Upholstery cleaners</li> <li>• Urinal blocks and screens</li> <li>• Vehicle cleaners</li> </ul>

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**Regulation #SFE-20-05-PPO**

Approved Alternative Products for: **Janitorial Papers**

PURCHASING REQUIREMENTS FOR CITY DEPARTMENTS

1. **Facial tissues**

- a. Must contain at least 10% post-consumer recycled content (PCRC);
- b. Must not be labeled “anti-viral or anti-bacterial; and
- c. Must not contain any added inks, dyes or fragrances.

2. **Paper towels**

- a. Must contain 100% total recycled content, including at least 40% PCRC;
- b. Must be certified by Green Seal or UL ECOLOGO; and
- c. Must not contain any added inks, dyes or fragrances.

3. **Toilet paper and toilet seat covers**

- a. Must contain 100% total recycled content, including at least 20% PCRC;
  - b. Must be certified by Green Seal or UL ECOLOGO; and
  - c. Must not contain any added inks, dyes or fragrances.
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**Regulation #SFE-20-06-PPO (Replacing Regulation #SFE-13-07-PPO)**

Approved Alternative Products for: **Lighting Equipment**

PURCHASING REQUIREMENTS FOR CITY DEPARTMENTS

1. **Lighting Equipment**, including lamps, luminaires, fixtures, retrofit kits, drivers, and ballasts, must comply with the following requirements. City Departments must purchase Light-emitting Diode (LED) lighting equipment whenever possible and practical, and all LED lighting equipment must be UL or ETL listed. Where purchasing LED lighting equipment is not possible or practical, the alternative product must comply with the requirements listed in Section 3, below. In addition, City Departments are strongly encouraged to purchase lighting equipment that is labeled RoHS-compliant, which means it complies with the European Union’s Restriction of Hazardous Substances Directive.

2. **Definitions**

Ballast: A device used with an electric discharge lamp to obtain necessary circuit conditions (voltage, current, and waveform) for starting and operating.

Fixture: The housing that holds lamp(s) and/or ballast/driver.

General Service Lamps: Include, but are not limited to, general service incandescent lamps, compact fluorescent lamps, general service light-emitting diode lamps, and general service organic light-emitting diode lamps. Per the California Energy Commission, additional lamp types subject to the general service lamp requirements when sold or offered for sale in California on or after January 1, 2020, include:

- Reflector Lamps
- Rough service lamps
- Shatter-resistant lamps
- 3-way incandescent lamps
- Vibration service lamps
- Candle-shape lamps such as B, CA, and F
- G-shape lamps
- T-shape lamps

Luminaire: Fixture that includes the lamps and power source (ballast or LED driver).

### 3. Requirements

3.1 **LED lamps** must meet the following requirements, standards and ecolabel standards.

LED Lamps	Requirement(s) and Ecolabel Certification(s)
A. LED General Service Compact Lamps with a Medium or Candelabra Screw Base (except LED Compact Filament Lamps)	<ul style="list-style-type: none"> <li>• Must be ENERGY STAR-certified or CA Title 24-compliant; and</li> <li>• Must have a minimum rated life of 25,000 hours or 3-year warranty.</li> </ul>
B. LED General Service Compact Filament Lamps with a Medium or Candelabra Screw Base	<ul style="list-style-type: none"> <li>• Must be ENERGY STAR-certified or CA Title 24-compliant; and</li> <li>• Must have a minimum rated life of 15,000 hours or 2-year warranty.</li> </ul>
C. LED General Service Pin-based Compact Lamps (2-pin models)	<ul style="list-style-type: none"> <li>• Must have a minimum rated life of 25,000 hours or 3-year warranty.</li> <li>• In addition, LED General Service 2-pin Compact Lamps with a GU24 or GU10 must be ENERGY STAR-certified or Title 24 Compliant.</li> </ul>
D. LED General Service Pin-based Compact Lamps (4-pin models)	<ul style="list-style-type: none"> <li>• Must have a minimum rated life of 25,000 hours or 3-year warranty.</li> <li>• In addition, LED General Service 4-Pin Compact Lamps with a 2G11, GX24Q or G24Q base must be on the DesignLights Consortium (DLC) Qualified Products List (QPL).</li> </ul>
E. LED General Service T8 Tube Lamps	<ul style="list-style-type: none"> <li>• Must have a Color Rendering Index (CRI) of at least 80; and</li> <li>• Must have a minimum rated life of 50,000 hours or 5-year warranty.</li> <li>• In addition, 2-foot, 3-foot, 4-foot, 8-foot and U-shaped LED General Service T8 Tube Lamps must be on the DesignLights Consortium (DLC) Qualified Product List (QPL).</li> </ul>
F. LED General Service T5 Linear Tube Lamps	<ul style="list-style-type: none"> <li>• Must have a Color Rendering Index (CRI) of at least 80; and</li> <li>• Must have a minimum rated life of 50,000 hours or 5-year warranty.</li> <li>• In addition, 4-foot General Service T5 Linear Tube Lamps (including standard and high-output models) must be on the DesignLights Consortium (DLC) Qualified Product List (QPL).</li> </ul>
G. LED Replacement Lamps for HID Lamps	<ul style="list-style-type: none"> <li>• Must have a Color Rendering Index (CRI) of at least 80; and</li> <li>• Must have a minimum rated life of 50,000 hours or 5-year warranty.</li> <li>• In addition, LED Replacement Lamps for HID Lamps with a Mogul Base must be on the DesignLights Consortium (DLC) Qualified Products List (QPL).</li> </ul>
H. LED Miniature Lamps (except LED Exit Sign Lamps)	<ul style="list-style-type: none"> <li>• Must have a minimum rated life of 15,000 hours or 2-year warranty.</li> </ul>
I. LED Exit Sign Lamps and Retrofit Kits	<ul style="list-style-type: none"> <li>• Must meet NFPA 101, NEC and OSHA Illumination Standards; and</li> <li>• Must have a minimum rated life of 50,000 hours or 5-year warranty.</li> <li>• In addition, LED exit sign retrofit kits must use 5 watts per face or less.</li> </ul>

3.2 **Luminaires** must be LED-based whenever possible and practical. Luminaires, fixtures, retrofit kits and drivers must meet the following requirements, which reference applicable third-party certifications and standards. All luminaires, retrofit kits and drivers must have at least a 5-year warranty and be UL Listed.

The following types of luminaires and fixtures are PROHIBITED and may NOT be purchased by City Departments.

- Incandescent
- Halogen
- Fluorescent
- High-intensity discharge (HID): Mercury vapor, low-pressure sodium, probe start metal halides (except models 1000 watts or higher)



LED Luminaires, Fixtures, Retrofit Kits and Drivers	Requirement(s) and Ecolabel Certification(s)
A. Interior LED Luminaires and Fixtures (Commercial)	<ul style="list-style-type: none"> <li>• Must be on DesignLights Consortium (DLC) Qualified Product List (QPL);</li> <li>• Must have Class A Sound Rating; and</li> <li>• Must have Class A FCC Electromagnetic Compliance Rating.</li> </ul>
B. LED Exit Signs and Other Emergency Luminaires	<ul style="list-style-type: none"> <li>• Meets NFPA 101, NEC and OSHA Illumination Standards; and</li> <li>• Must have a minimum rated life of 50,000 hours or 5-year warranty.</li> <li>• In addition, exit signs must use 5 watts per face or less per Title 20.</li> </ul>
C. Exterior (Outdoor) LED Luminaires (Commercial)	<ul style="list-style-type: none"> <li>• Must be on the DesignLights Consortium (DLC) Qualified Product List (QPL);</li> <li>• Must have Class A Sound Rating;</li> <li>• Must have Class A FCC Electromagnetic Compliance Rating; and</li> <li>• Must be fully shielded to minimize light pollution.</li> </ul>
D. LED Retrofit Kits (for interior & exterior luminaires) (Commercial)	<ul style="list-style-type: none"> <li>• Must be on the DesignLights Consortium (DLC) Qualified Product List (QPL);</li> <li>• Must have Class A Sound Rating; and</li> <li>• Must have Class A FCC Electromagnetic Compliance Rating.</li> </ul>
E. LED Drivers	<ul style="list-style-type: none"> <li>• Must have Class A Sound Rating;</li> <li>• Must have Class A FCC Electromagnetic Compliance Rating;</li> <li>• Must be RoHS Compliant; and</li> <li>• Must have a minimum rated life of 50,000 hours or 5-year warranty.</li> </ul>

3.3 **Fluorescent lamps** may be purchased only where LED replacements do not exist.

The following fluorescent lamps are PROHIBITED and may not be purchased by San Francisco City Departments:

- T12 fluorescent lamps;
- T9 circular fluorescent lamps;
- T8 lamps longer than 4-feet; and
- Preheat fluorescent lamps.

3.4 **High-intensity discharge (HID) lamps**, including high-pressure sodium and certain types of metal halide lamps, may be purchased only in cases where LED replacements do not exist.

The following HID lamps are PROHIBITED in all circumstances and may not be purchased by San Francisco City Departments:

- Mercury vapor lamps (all wattages);
- Low-pressure sodium lamps (all wattages);
- Probe-start metal halide lamps up to 400 watts; and
- High-pressure sodium and other types of HID lamps with a mogul (E39) base up to 400 watts.

3.5 **Halogen and incandescent lamps** may be purchased only in cases where LED replacements do not exist.

The following General Service halogen and incandescent lamps are PROHIBITED in all circumstances and may not be purchased by City Departments:

- A19 and A21 A-shape lamps;
- G25 Globe shape lamps; and
- The following types of reflector flood lamps: BR30, BR40, MR16, PAR16, PAR20, PAR30, PAR38, and R20.

3.6 **Ballasts** may be purchased only in cases where LED replacements do not exist.

The following ballasts are PROHIBITED in all circumstances and may not be purchased by City Departments:

- Magnetic ballasts designed for use with all types and wattages fluorescent and compact fluorescent lamps;
- Electronic rapid start ballasts designed for use with fluorescent lamps; and
- Ballasts designed only for use with mercury vapor lamps and/or probe-start metal halide lamps of 400 watts or less.

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**Regulation #SFE-20-07-PPO**  
Approved Alternative Products for: **Office Supplies**

PURCHASING REQUIREMENTS FOR CITY DEPARTMENTS

1. **Adding machine tape**
  - 1.1. Must contain at least 30% post-consumer recycled content (PCRC); and
  - 1.2. Must not contain Bisphenol A (BPA).
2. **Binders**
  - 2.1. Must not contain polyvinyl chloride (PVC); and
  - 2.2. Must contain post-consumer recycled content (PCRC) in the following amounts, depending on the binder's material:
    - 2.2.1. **Cardboard:** at least 75% PCRC.
    - 2.2.2. **Plastic:** at least 30% PCRC.
    - 2.2.3. **Pressboard:** at least 20% PCRC.
3. **Calendars (wall, desk, desk pads, and refills)**
  - 3.1. Must contain at least 30% PCRC; and
  - 3.2. Must not contain polyvinyl chloride (PVC).
4. **Envelopes (white, colored, and manila)**
  - 4.1. Must contain at least 30% PCRC; and
  - 4.2. Must not contain PVC.
5. **File folders (all colors and types)**
  - 5.1. Must contain at least 30% PCRC;
  - 5.2. Must not contain PVC; and
  - 5.3. Must not contain antimicrobial coatings or treatments.
6. **Office copy paper**
  - 6.1. **White, 20 pound copy paper** (cut sheet) in the following sizes must contain 100% PCRC:
    - 6.1.1. Letter size (8 ½" x 11")
    - 6.1.2. Legal size (8 ½" x 14")
    - 6.1.3. Ledger (11" x 17")
  - 6.2. **White office paper other than 20 pound cut sheet copy paper** must contain at least 30% PCRC.
  - 6.3. **Colored copy paper** must contain at least 30% PCRC.

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**Regulation #SFE-20-08-PPO**

Approved Alternative Products for: **Paints and Primers (Interior Latex for Wall and Ceiling)**

**PURCHASING REQUIREMENTS FOR CITY DEPARTMENTS**

**Interior latex wall and ceiling paints and primers:**

1. Must be certified by one or more of the following:
    - 1.1. Master Painters Institute (MPI) Extreme Green
    - 1.2. Green Wise Gold
    - 1.3. Cradle to Cradle Certified Gold level or higher, version 3.1 or later
  2. Include all paint and primer types designated as “Latex, Interior” by MPI, except those designated as “Latex, Interior, High Performance Architectural.”
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**Regulation #SFE-20-09-PPO**

Approved Alternative Products for: **Resilient Flooring and Adhesives**

**PURCHASING REQUIREMENTS FOR CITY DEPARTMENTS**

**1. Scope of regulation:**

1.1 Resilient flooring includes interior:

- Linoleum sheet and tile flooring
- Molded rubber mat/slab flooring
- PVC-free alternatives to vinyl sheet and tile flooring
- Rubber sheet and tile flooring
- Slip-resistant safety flooring
- Sports flooring

1.2 Resilient flooring does not include:

- Accessories, such as edgings
- Exterior resilient flooring
- Resilient bases
- Rubber runners
- Stair coverings
- Static control flooring

**2. Resilient flooring**, including its coatings and adhesives, must meet the following requirements:

<b>Restricted Chemicals</b>	<b>Requirement(s) for Resilient Flooring</b>
2.1. Alkylphenols	The product does not contain alkylphenols, alkylphenol ethoxylates, or related compounds above 100 ppm.
2.2. Antimicrobial agents	The product does not contain any added antimicrobials, including antimicrobials or preservatives used to preserve or protect the final product.
2.3. Bisphenol A and its analogs	The product does not contain total bisphenol A or its structural analogs above 1000 ppm
2.4. Epichlorohydrin	The product does not contain epichlorohydrin-based formulations.
2.5. Flame retardants	The product does not contain flame retardants above 100 ppm.
2.6. Formaldehyde	The product does not contain added formaldehyde or formaldehyde-based formulations.
2.7. Isocyanates	The product does not contain unreacted (‘free’) isocyanates.
2.8. Metals	The product does not contain total lead, mercury, cadmium, hexavalent

	chromium (chromium VI), nickel, or organotins above 50 ppm.
2.9. Nanomaterials	The product does not contain deliberately engineered nanomaterials.
2.10. Ortho-phthalates	The product does not contain total ortho-phthalates above 50 ppm.
2.11. PFAS chemicals	The product does not contain per- or poly-fluorinated alkyl substances.
2.12. PBT chemicals	The product does not contain persistent, bioaccumulative, and toxic chemicals (PBTs) above 1000 ppm.
2.13. Proposition 65 chemicals	The product does not contain intentionally added chemicals listed on Proposition 65 at levels that would require a warning in the State of California.
2.14. PVC and other chlorinated polymers	The product does not contain polyvinyl chloride (PVC) or other chlorinated polymers.
2.15. Recycled tires	The product does not contain recycled tires.
2.16. Siloxanes	The product does not contain volatile methylcyclsiloxanes D4, D5, or D6 above 100 ppm.
<b>Other criteria</b>	
2.17. Maintenance	The product must not require the periodic use of strippers, sealants, or floor finishes to maintain the product.
2.18. Product content transparency	The product must have either 1) a complete Health Product Declaration with all substances characterized and screened at or above 1000 ppm, or 2) a fully disclosed Declare label that is Red List Free at 100 ppm, and with no proprietary information claimed for any ingredient above 1000 ppm.
2.19. VOC certification	The product must be certified as meeting California Department of Public Health Standard Method v1.2-2017, GREENGUARD Gold, SCS Indoor Advantage Gold, FloorScore, Blue Angel, or Cradle to Cradle Certified Gold level or higher, version 3.1 or later.
2.20. VOC certification for SBR products	The product must be certified as meeting California Department of Public Health Standard Method v1.2-2017, GREENGUARD Gold, SCS Indoor Advantage Gold, FloorScore, Blue Angel, or Cradle to Cradle Certified Gold level or higher, version 3.1 or later.
2.21. Wood certification	Wood used in the product must be Forest Stewardship Council (FSC) certified.
2.22. Wood finishing	Wood floors must be prefinished.

**3. Adhesive** used to install resilient flooring must meet one of the following requirements:

- 3.1 Must be certified as meeting California Department of Public Health Standard Method v1.2-2017, GREENGUARD Gold, SCS Indoor Advantage Gold, FloorScore, Blue Angel for Low-Emission Floor Covering Adhesives, or Cradle to Cradle Certified Gold level or higher, version 3.1 or later; OR
- 3.2 The flooring must be attached mechanically without a chemical adhesive.

**4. Documentation of compliance**

Documentation is required to demonstrate compliance with the requirements in Sections 2 and 3 above. Acceptable documentation of compliance includes at least one of the following:

- 4.1 Resilient flooring and/or adhesives are certified as meeting the requirements in Sections 2 and 3 above by a third-party certification body deemed acceptable by the San Francisco Department of the Environment; OR
- 4.2 Resilient flooring and/or adhesives are registered as meeting the above requirements by another organization deemed acceptable by the San Francisco Department of the Environment and listed at [sfapproved.org](http://sfapproved.org).