



MATERIALS MANAGEMENT - PROCUREMENT

ENVIRONMENTAL GUIDELINE



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PURPOSE

The purpose of this Environmental Guideline is to ensure that the procurement of goods and services across all purchasing methods supports DEN's Environmental Management System and broader sustainability goals. Although DEN does not have specific goals associated with environmentally preferable purchasing (EPP), EPP is a critical strategy that can support each EMS objective.

ACTIVITY DESCRIPTION

Environmentally preferable purchasing highlights products or services that minimize impacts on human health and the environment when compared with competing products or services.

EPP examples include but are not limited to goods that:

- Minimize pollution, waste, energy and water consumption, greenhouse gas emissions, and the use of hazardous substances
- Are durable, long-lasting, reusable, or refillable
- Contain minimal, reusable, recyclable, or compostable packaging
- Are reused or contain recycled and/or renewable content
- Save natural resources
- Are locally and/or sustainably produced
- Consider impacts across the entire product lifecycle

EXPECTATIONS

Best Practices

- Green Seal approved products and services
- EPA Safer Choice labeled products
- EPA Energy Star and Water Sense certified products
- Cradle to Cradle (C2C) v2 and v3 certified products
- GreenScreen® certified products
- Conformance with California Code of Regulations for maximum allowable VOC content
- Products integrating pre-measured dispensing, or automated dispensing and mixing
- Products with high recycled material and post-consumer waste content
- Products or packaging that can be recycled (using local recycling options)



- Products with reusable, interchangeable and returnable containers and applicators
- Products with minimal or no packaging
- Service providers who support empty pallet, container, and drum takeback
- Neutral pH products (pH between 5 and 9)
- Non-flammable products (flash point >140F)
- Bio-based materials (per ASTM D6866)
- Products or services that minimize worker/public exposure to contaminants

Shall Not

- Combination cleaner-disinfectants
- Products which liberate ammonia (CAS 7664-41-7)
- Products containing the following substances, except in trace amounts (< 0.1%):
 - alkylphenol ethoxylates
 - 1,4-dioxane (CAS 123-91-1)
 - Nitrilotriacetic acid (CAS 139-13-9)
 - Sodium ethylenediamine tetraacetic acid (CAS 60-00-4)
 - 2-butoxyethanol or 2-butoxyethanol acetate (CAS 111-76-2, and CAS 112-07-2)
 - ethanolamine (CAS 141-43-5)
- Products containing phosphates or phosphonates in excess of 0.5% phosphorous by weight
- Products with a Flashpoint of less than 140°F
- Products with a pH of less than 2.0 or greater or than 12.5 at their least dilute working strength
- Products containing more than 20% VOCs by weight
- Products having RCRA Hazardous waste characteristics in their least dilute working strength
- Practices resulting in the air-borne dispersal of dusts and soils
- Practices which rely on volatilization of organic solvents or result in the significant generation of chemical fumes or vapors.
- Practices which prevent the capture and collection of wastewater and water-borne pollutants.
- Products whose principal ingredients are readily absorbed through skin, or cause dermal irritation or sensitization on contact, or rapidly destroy skin tissue or the mucous membranes.



- Products supplied without clearly readable labels that describe product hazards, precautions, and instructions on use and disposal.
- Products for the safe use of which workers must don specialized respiratory protection or general splash protection equipment.
- Prohibited Chemicals and Compounds (excluding legitimate laboratory uses/alloys)

	Chemical Name	CAS Number
1	Arsenic, Arsenic containing compounds	7440-38-2, various
2	Barium, compounds of	various
3	Cadmium, compounds of	various
4	Carbon tetrachloride	56-23-5
5	Chlorobenzene	108-90-7
6	Chloroform	67-66-3
7	Chromium, compounds of	various
8	1,2-Dichlorobenzene	95-50-1
9	1,4-Dichlorobenzene	106-46-7
10	1,2-Dichloroethane	107-06-2
11	1,1-Dichloroethylene	75-35-4
12	Hexachlorobenzene	118-74-11
13	Hexachlorobutadiene	87-68-3
14	Hexachloroethane	67-72-1
15	Hydrofluoric Acid	7664-39-3
16	Lead, compounds of	various
17	Mercury, elemental	7439-97-6
18	Mercury, compounds of	various
19	Methylene chloride	75-09-2
20	Nitrobenzene	98-95-3
21	Pentachlorophenol	87-86-5
22	Selenium, compounds of	various
23	Silver, compounds of	various
24	Tetrachloroethylene	127-18-4
25	1,1,1-Trichloroethane	71-55-6
26	1,1,2-Trichloroethane	79-00-5



27	Trichloroethylene	79-01-6
28	2,4,5-Trichlorophenol	95-95-4
29	2,4,6-Trichlorophenol	88-06-2
30	Vinyl chloride	75-01-4

- Many of the chemical names in the above table have synonyms or other common names. These will share the same CAS number, which should be the default screening mechanism to ensure prohibited chemicals are not purchased. CCD DDPHE is available for consultation and assistance with screening should the buying agency have questions during the purchase of chemicals.

REFERENCES

Contacts

- DEN Environmental Services (303) 342-2730, DENEnvironmental@flydenver.com
- DEN Director of Purchasing (303) 342-2154
- DEN PCard Administrator (303) 342-2237, PCard@flydenver.com