



PACE
PARTNERS FOR A
CLEAN ENVIRONMENT

What is PACE?

PACE provides education outreach, technical assistance, and recognition for environmental achievement. The program is available at no cost to businesses in Boulder County. PACE offers:

- Assessments to identify opportunities for waste reduction, water conservation, and energy-efficiency
- Information and assistance to meet your business needs
- Compliance education
- Public recognition for your environmental efforts

Why Participate?

Compliance – Our free, non-regulatory consultations help you comply with environmental laws and ordinances and reduce your liability.

Cost Savings - Less waste means lower disposal and operating costs. Efficient use of water, energy, and materials saves money.

Public Image - Environmental practices impact your image with customers, the community, and regulatory agencies.

Public Recognition!

PACE publicly recognizes certified businesses through free advertising. This includes Internet listings and advertising in newspapers, magazines, utility bill inserts, and radio spots.

Certified businesses receive a PACE window decal and framed certificate. PACE encourages the public to support businesses that contribute to the community through environmentally sound operating practices.

Environmentally Preferable *Evacuation Line Cleaners*

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Evacuation line cleaners are used to dislodge debris, such as fluorides, tissue, and amalgam from lines to prevent clogging, loss of vacuum system pressure, and eventual system breakdown. Evacuation lines can house a host of bacteria and pathogens, placing both patients and staff at risk. Line cleaners themselves can be hazardous to your health due to their hazardous or toxic ingredients. They can be toxic to the environment by breaking down amalgam and activating mercury in the lines.

Highly caustic (pH > 10) or acidic cleaners (pH < 4) can damage your amalgam separator and reduce its removal efficiency as well as corrode evacuation lines. Cleaners containing chlorine should not be used, as they leach mercury from amalgam, which can pass through your separator and vacuum filters, and ultimately reach our rivers and lakes. A list of line cleaners that do not contain chlorine and minimize the dissolution of amalgam is listed on the following page. Environmentally preferable cleaners offer performance while protecting your health, equipment, and the environment.

Helpful Resources

See the PACE website for a list of helpful resource sheets

www.pacepartners.com

ADA

American Dental Association
www.ada.org



Naval Dental Research Institute
www.dentalmercury.com

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PACE Hotline 303-786-PACE (7223)



Environmentally Preferable Line Cleaners

Evacuation Line Cleaner	Minimize Amalgam Dissolution ^{2,3}	Neutral pH	Environmentally Preferable	Dental Supplier
Bio Pure Evacuation System Cleaner	Not tested in studies	✓	YES!	biopureproducts.com
Cleaner/Disinfectant Solution (Patterson)	✓			PA
CleanStream (Air Techniques)	Not tested in studies	✓		SS
DRNA Vac (DRNA)	✓	✓	YES!	DRNA.com
E-Vac (L & R)	✓	Acidic, pH 1.5		DD, SS
Evacuation Cleaner (Super-Dent)	Not tested in studies			DD
EZ-Zyme (Miltex)	✓	✓	YES!	DD
Fresh-Vac (Huntington/Ecolab)	✓	✓	YES!	PA
Gobble Plus (Germiphene)	✓	✓	YES!	DD
Green and Clean M2 (Metasys)	✓	✓	YES!	ecotwo.com
Maxi-Evac or Or-Evac (Henry Schein)	✓			SS
Maxizyme (Henry Schein)	Not tested in studies	✓		SS
NeutraVAC (Biotrol)	Not tested in studies	✓		DD, GZ, PA, SS
ProE-Vac (Cottrell Ltd.)	✓	Acidic, pH <1.5		DD, GZ, SS
Purevac (Sultan Chemists)	✓	Acidic, pH 1.0		DD, GZ, SS
Pure-Vac Hg (Sultan Chemists)	✓	✓	YES!	DD, SS, PA, SS
Sani-Treet Plus (Enzyme Industries)	✓	✓	YES!	GZ, SS
SRG Evacuation (Mydent Int'l)	✓	Acidic, pH 1.1		PA, SS
Turbo Vac Line Flush (Pinnacle)	✓	Acidic, pH 1.7		DD
VacuCleanse (Infection Control Tech)	✓	✓	YES!	SS
Vacusol Ultra (Biotrol International)	✓	Basic, pH 12.4		SS
Vacuum Clean (Palmero)	✓	✓	YES!	DD, GZ, PA, SS
Vac-U-EZ (Den-tal-Ez)	✓	Basic, pH 12.0		DD, SS

Dental Suppliers

DD – Darby Dental
 GZ – Goetze Dental
 PA – Patterson Dental
 SS – Sullivan Schein

References:

- [1] "Best Management Practices For Amalgam Waste." Resources and Publications. Sep. 2005. ADA. 1 Apr. 2006. www.ada.org/.
 [2] Chow, H.N. "Effect of Line Cleaners on Dissolution of Dental Amalgam." Confex Dental Materials: VII. Apr. 2003. ADA 1 Apr. 2006
http://iadr.confex.com/iadr/2004Hawaii/techprogram/abstract_43805.htm.
 [3] Stone, ME. ". ." U.S. Navy. Naval Institute for Dental and Biomedical Research. 1 Apr. 2006.

This resource sheet is for informational purposes only; it is not an endorsement of any product or dental supplier by PACE. The pH data is taken from the product's MSDS or through communication with the manufacturer. If you are an evacuation line cleaner supplier or manufacturer and would like to update your information or be added to this list, please call PACE at 303-786-PACE (7223).