



PENAIR® HD-1

US Patent No. 6,001,793

Aircraft/Aerospace Equipment Cleaner

FEATURES/BENEFITS

Features

- Biodegradable
- Non-toxic
- Near neutral pH
- No petroleum or chlorinated solvents
- Heavy-duty cleaner
- QPL to MIL-PRF-87937D Type I

Benefits

- Improves worker safety
- Reduces eye and skin problems
- Improves aircraft appearance
- Reduces man-hour requirements
- Non-corrosive to aerospace metals
- Reduces cleaning costs

Penair HD-1 is available in 6 gallon pails, 55 gallon drums, totes and bulk deliveries.

Description

Penair HD-1 is a state-of-the-art, heavy-duty, biodegradable cleaning compound for aircraft surfaces and aerospace ground equipment (AGE). *Penair HD-1* is the result of five years of research by West/Penetone labs and rigorous field evaluation by the U.S. Air Force. Replacing hazardous petroleum and chlorinated solvents with *Penair HD-1* will assist aircraft maintenance personnel in complying with today's stringent EPA and OSHA standards. *Penair HD-1* complies with MIL-PRF-87937D Type I aerospace equipment cleaning specifications.

Penair HD-1 is a unique, biodegradable blend of natural hydrocarbon solvent, corrosion inhibitors and surfactants with added carbon removers. It is effective on the toughest aircraft soils, including exhaust carbon, hydraulic oils, boot prints, solid film lube and wet stacking. *Penair HD-1* replaces cleaners that contain toxic or environmentally harmful ingredients, and reduces volatile organic vapor emissions compared to other solvent cleaners. A concentrated cleaner, *Penair HD-1* is formulated to be economical to use when diluted with water.

Directions For Use

Aircraft and Aerospace Ground Equipment

<i>Soils</i>	<i>Water Dilution</i>
Light	1:4 to 1:20
Moderate	1:2 to 1:4
Heavy	1:1 to 1:2

Apply *Penair HD-1* with non-atomizing coarse pressure spray, foam equipment, or bucket and brush. Allow 3 to 8 minutes dwell time, depending on the soils to be removed. Agitate and rinse with water.

Dip Tank Operations

Dilute *Penair HD-1* with a minimum of two parts water unless otherwise specified by technical order. Dilute with two parts water for heavier soils. For lighter soils, 10 parts water may be used.

IMPORTANT: Before using *PENAIR HD-1*, always be sure to read and follow warnings and directions for use appearing on the product container label, MSDS and applicable current technical manual. (Jun04)