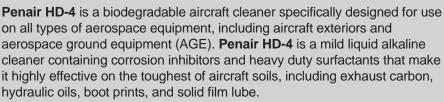


PENAIR® HD-4 Aircraft/Aerospace Equipment Cleaner

MILITARY / COMMERCIAL AVIATION



Penair HD-4 replaces cleaners that contain toxic or environmentally harmful ingredients thereby allowing aircraft maintenance personnel to comply with stringent EPA and OSHA standards.

Penair HD-4 has no flash or fire point and eliminates any storage or handling problems. Additionally, **Penair HD-4** contains low levels of VOC's, lessening problems with regards to air quality in non-attainment areas.

FEATURES AND BENEFITS

- Biodegradable
- Non-toxic
- No petroleum or chlorinated solvents
- Heavy-duty cleaner
- Low VOC's
- Reduces hazardous waste
- Improves worker safety
- Improves aircraft appearance
- Non-corrosive to aerospace metals
- Reduces cleaning costs

Use procedures

Dip Tank Immersion

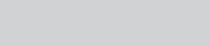
External Cleaning Method

Dilute the concentrate with a minimum of two parts water unless otherwise specified in technical order (TO). Normal dilution ratios are 1:4 for heavy soils, 1:10 for light soils.

Aircraft: Dilute the concentrate 1:10 to 1:20 with water depending on the amount of soil to be removed. For spot cleaning, dilute the concentrate with 4 to 10 parts water. After cleaning, rinse off with water. Ensure engines are properly blocked and sealed to preclude contact with internal jet engine components. **Penair HD-4** is not recommended for cleaning canopies.

Aerospace Ground Equipment (AGE): Dilute the concentrate 1:10 to 1:20 with water depending on the amount of soil to be removed. For spot cleaning, dilute the concentrate with 4 to 10 parts water depending on the amount of soil to be removed. After cleaning, rinse off with water.

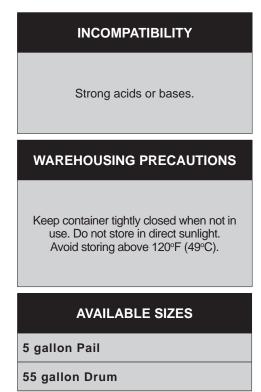
Motor Vehicle Engines: Dilute the concentrate with 3 to 10 parts water depending on the amount of soil to be removed. After cleaning, rinse off with water. Not recommended as a spot cleaner for engines.



PHYSICAL PROPERTIES

Appearance	Clear to light yellow/amber liquid
Odor	Mild
рН	About 8.5
Freezing Point	About 32°F
Boiling Point	About 212°F
Flash Point (TCC)	None to boil
Relative Density	1.01
Auto-Ignition Temperature	Not determined
Water Solubility	Complete
Viscosity	10-30 CP at room temperature

APPROVALS



MIL-PRF-87937D TYPE IV

FIRST AID MEASURES

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists or develops: Get medical advice or attention. Penetone recommends that after any eye exposure a physician be seen immediately. If swallowed: Rinse mouth. Call a poison center, doctor, physician or other

competent medical authority if you feel unwell.

If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center, doctor, physician or other competent medical authority if you feel unwell.

If on skin: Wash with plenty of water or a mild soap. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice or attention.

IMPORTANT: Before using **PENAIR HD-4**, always be sure to read and follow precautions and directions for use appearing on the product container label and on the safety data sheet (S.D.S).

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CLIFTON



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United States www.penetone.com

Canada www.westpenetone.com

PERSONAL PROTECTION Security equipment

