

MILITARY / COMMERCIAL AVIATION



Penair HD-3 is a biodegradable, heavy duty cleaner, that is thickened, and will cling to vertical and overhead surfaces. The thixotropic properties of **Penair HD-3** allow it to be applied to a soiled surface where the cleaner will not run off, allowing increased contact time. The improved cleaning properties, due to increased contact time, results in decreased manual labor and reduced man-hour requirements.

Penair HD-3 can be used to replace P-D-680 and other toxic solvents when cleaning aircraft wheel wells, exhaust tracks, wing flaps, and rotorhead areas of the aircraft.

Penair HD-3 will not harm aircraft paints and is non-corrosive to aerospace metals.

FEATURES AND BENEFITS

- Thixotropic
- Free rinsing
- Improved cleaning due to increased contact time
- Leaves a residue free surface
- Eliminates streaking problems
- Non-corrosive to aerospace metals

Use procedure Apply **Penair HD-3**, using pressure spray, foam equipment, or bucket and brush.

Concentration Use undiluted.

Dwell time/operation time Allow product 5 to 15 minutes dwell time, depending on the nature of the soil being removed. Brush if necessary.

Rinsing Thoroughly rinse with water.

PENAIR® HD-3

GEL TYPE AIRCRAFT CLEANER

PHYSICAL PROPERTIES

Appearance	Viscous clear to light yellow/amber liquid
Odor	Mild
pH	8-10
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	500-1000 CP at room temperature

INCOMPATIBILITY
Strong acids or bases.

WAREHOUSING PRECAUTIONS
Keep container tightly closed when not in use. Do not store in direct sunlight. Avoid storing above 120°F (49°C).

APPROVALS
MIL-PRF-87937D Type III
Douglas Aircraft CSD 1
Boeing D6-17487 Rev. L
Continental Airlines exterior cleaner

AVAILABLE SIZES
55 gallon Drum

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.

PERSONAL PROTECTION Security equipment



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IMPORTANT: Before using **PENAIR HD-3**, 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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