

PENAIR® HD-3

Gel Type Aircraft Cleaner

- **Penair HD-3** is a biodegradable, heavy duty cleaner, that is thickened, and will cling to vertical and overhead surfaces. The thixotropic properties 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 increase 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.

Use procedure

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

Dwell time/operation time

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



Concentration

Use undiluted.

Features and Benefits

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

Available Sizes

- 55 gallon drum

Approvals

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

First Aid Measures

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

If swallowed: Immediately call a poison center, doctor, physician or other competent medical authority. Rinse mouth. Product presents an aspiration hazard.

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 (or hair): 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.

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).

Personal Protection/Security Equipment



WHMIS



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 the safety data sheet (S.D.S.)