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Triple7 Aircraft & Metal Application Sheet



The Governor of Victoria
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2022 Winner



Australian Defence
Industry Awards
Manufacturer of the Year
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AIRCRAFT & METAL

BIO-BASED AIRCRAFT EXTERIOR & SOFT METAL CLEANER

Triple7 Aircraft & Metal cleaner is a powerful non-toxic, general purpose organic cleaner and degreaser used for exterior aircraft washing, aerospace parts manufacturing, and any manufacturing process to clean aluminium or similar soft metals prone to tarnish or oxidation.

The product is a low to moderate sudsing, highly concentrated surfactant cleaner and degreaser that is used in the most difficult cleaning solutions for the removal of all hydrocarbons soils including petroleum derivatives, fats, oils, and greases.

Triple7 Aircraft & Metal is water-soluble and will not harm metals, acrylics, rubber, vinyl, glass, fabrics, paint, or other finishes and surfaces that are compatible with water. The product will not react harmfully with other cleaning or solvenating chemicals.

Triple7 Aircraft & Metal is non-toxic, non-hazardous, non-flammable and readily biodegradable. The product does not clean by reacting with cleaning surfaces but simply causes long chain hydrocarbon soils such as JA or JP fuels, cutting or other lubricants, and other airborne soils to repel from the surface and release into a water rinse stream. While various factors such as solution strength, surface temperature, available agitation, and dwell time each contribute to successful cleaning, the exact ratio of each may require repeated trials to determine the ideal mix for specific applications.

Triple7 Aircraft & Metal meets the most stringent military and aircraft manufacture specifications: BOEING D6-17487 Rev. N, DOUGLAS CSD#1, NAVY MIL-PEF-85570C, USAF MIL-PRF-87937C, AMS 1526B, OSHA 29-CFR Ch. XVII 1910.1200 and -40 CFR Ch. 1, Subparts C & D. Complies with EPA 600 / 4-90 / 027 USEPA EMSL protocol for aquatic toxicology. Complies with EPA 601 and 602 protocol for VOC testing. Certified Clean Air Solvent by CA SCAQMD.

Method of Application

Triple7 Aircraft & Metal is applied via wiping, misting, pressure washers, or soak-tanks.

Cleaning Tips

When possible, first pre-wet cleaning surfaces with water. Pre-treat heaviest soil with full-strength **Triple7 Aircraft & Metal**. Allow to soak for 5 minutes before final application and washing. Residual product will improve future cleaning performances on high maintenance areas and best results are obtained with regular use. Where a high gloss finish is desired, thoroughly rinse to avoid streaking by residual product.

Pressure Washers/Steam Cleaners

Water temperature should be above 20°C for optimum cleaning performance. **Triple7 Aircraft & Metal** will not harm equipment, but may cause excess residual chemicals from previous cleaning products to release into the solution stream, causing sprayer nozzles to clog. Simply unscrew sprayer nozzle and unblock, before continuing.

Triple7 Aircraft & Metal will prevent scale deposition on coils or lines, and will not harm pumps or seals.

Triple7 Aircraft & Metal will not react with other chemicals to create hazardous conditions and the product is not a soap, detergent or solvent.

Triple7 Aircraft & Metal simply causes organic soils containing hydrocarbon molecules to repel from the cleaning surface and suspend in solution, so that they may be rinsed away with water.

Triple7 Aircraft & Metal may be used on any surface that is compatible with water and for sensitive aluminum surface cleaning.

Triple7 Aircraft & Metal is safe to use, store and dispose of and has a long shelf life.

The product may be used in all types of machine applications such as soak tanks, manufacturing process cleaning, pressure washers, steam cleaners, closed cabinets, ultrasonics, and centrifugal machines.

Triple7 Aircraft & Metal may be applied by spray, dip, or any mechanical means without creating hazardous conditions.

Triple7 Aircraft & Metal is free of:

- Petroleum distillates
- Glycol ethers
- Terpenes
- Synthetics
- Builders and reagents
- Volatile organic compounds (VOCs)
- Caustics
- Ozone depleting substances

Basic Dilution Rates

Heavy Cleaning Examples – Full Strength up to 1:10

Engine exhaust and carbon black, lubrication greases, landing gear, engine degreasing, parts maintenance, asphalt splatters, hardened resins, insect smears, thick dust and oily dirt.

Average Cleaning Examples – 1:10 up to 1:20

Exterior fuselage cleaning, oily floors, mechanic work areas, tools and support equipment, vehicle maintenance, shipping containers, and utility equipment

General Manufacturing – 1:5 up to 1:40

Cleaning parts of cutting oils, polishing rouges, waxes, etc. in parts washers, ultrasonic cleaners, dip or immersion tanks.

Specifications

Form: Low viscosity, water clear liquid

Odour: Mild coconut and pepper

Boiling Point/Range: 100°C

Freezing Point: 3°C

Dielectric Strength: 1.5 KV

Decomposition Temperature: Higher than 165°C

Explosive Properties: None

Vapour Pressure: 17.0mm of Hg @ 20°C

Relative Density: 1.0090 g/ml

Surface Tension: 24.73 dynes/cm

Evaporation Rate: .7

Colour: Very light amber/water clear

pH: 8.4

Melting Point/Range: Not applicable

Viscosity @ 20°C: 7.0 (Brookfield LV#1@60RPM)

Electric Conductivity: 3.090 F mhos./cm

Flash Point: None (Penske Martin Closed Cup)

% Volatile by Weight @ 105° C 85.5%

Vapour Density: 0.620 psi. ASTM D-5191

Water Solubility: 99.993%

Specific Gravity: 1.04 gm/cc

Volatile Organic Compounds: None measurable by U.S. Methods 601, 602 and 608



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