

# AVIATION ESSENTIALS





# The Right Product at the right place

High Technology Solutions for Maintenance, Repair and Overhaul of Aircrafts



#### EXTERIOR WASHING



#### CABIN INTERIOR



1122

# AVIOSHINE Dry Wash Cleaner & Polish

Fast and easy one-step cleaner and polish designed to remove stubborn stains, contaminations, brake dusts, insects and traffic films from aircraft painted surfaces. Provides

long lasting protection to all paintworks. High gloss finish to maintain & restore shiny appearance to reduce costly

A 1122 J1

frequency of cleaning. Residue free. UV protectant. Anti-static. Non-silicone, Non-abrasive. Non-flammable, Odourless

Colour: Light Brown

Approvals/Conformances: AMS 1531B, Fokker.

3180

# GLASS ACT Window Cleaner

Ammonia free mirror and window cleaner. Quickly removes dirt and soil from glass and glazed surfaces leaving sparkling surfaces without buffing or polishing. No streaking or smudging.

and furniture. Non-flammable. Dilution: up to 1:80 Colour: Clear pale green, pH: 10 ± 0.3

Safe on surrounding paintwork

Approvals/Conformances: AMS 1534A, AMS 1534C, Boeing D6-17487 Rev. L., Boeing D6-17487 Rev. T.

500ML x 6 (RTU)

4423

#### **AVIOKLEEN I Economical Exterior Cleaner**

General Purpose detergent, designed for cleaning aircraft exteriors using wet washing and foam cleaning methods. Contains no chromates or other heavy metals. Safe on all exterior and painted surfaces. Streak free after rinsing.

Biodegradable. Non-flammable. **Dilution:** up to 1:20 **Colour:** Clear yellow, **pH (1 %)**:  $10.8 \pm 0.5$ 

#### Approvals/Conformances:

AMS 1526B, Boeing D6-17487 Rev. L, MIL-C-87937B Type I, Fokker.

A 4423 02 25L A 4423 U2 205L

SUNSHINE 3220 General Purpose Cleaner

A 3180 F6

A 3180 J1

Premium grade universal detergent that works effectively on all aircraft interiors hard surfaces: galley, toilets, walls etc. Harmless to all metals, paint, fabrics,

glass, rubber etc. Non-slip finishing, rinses right away. Spray, swab or wipe On/Off

5L x 4

AMS 1550B, Boeing D6-17487 Rev. J, Douglas CDS#1 Issue 1989, Fokker.

**Odour:** Lemon, **pH (10 %):** 6.5 ± 0.5

Non-toxic. Non-flammable.

Approvals/Conformances:

Dilution: up to 1:50

Colour: Clear blue

A 3220 02

4935

#### **AVIOKLEEN II Concentrated Exterior Cleaner**

Viscous water based cleaner for the removal of soils from exterior aircrafts surfaces. Suitable for wet wash and dry cleaning application: flap bays, wheel wells, fuselage etc. Safe on all exterior and painted surfaces.

Residue free. Non-flammable. Dilution: up to 1:20 Colour: Light yellow, pH: 12.1 ± 0.3

Approvals/Conformances:

AMS 1526B, Boeing D6-17487 Rev. L, Fokker.

25L 205L

#### A 4935 02

A 4935 U2

A 3952 F6

7883

A 7883 F6

A 7883 J3

3952

RELION **Interior Polishing Cleaner** 

Premium quality polishing cleaner which gives an outstanding shine to hard surfaces in aircraft interiors. Suitable for all surfaces including leather and naugahyde seats, laminate, plastic and polycarbonate surfaces.

Dries to a non-greasy finish. delicate fragrance, non-flammable. **pH:** 7.7 ± 0.3

Approvals/Conformances:

Boeing D6-7127 Revision P, FAR, Boeing BSS 7434, AMS 1550B, Electronic Code of Federal Regulations, Part 25, Appendix F

A 3952 J3

500ML x 6 101

4553

#### **AVIOKLEEN HD Thickened Heavy Duty Cleaner**

Viscous heavy duty water based detergent. Formulated for the removal of oily soils, grease & carbon from bare metals and painted surfaces. Effective on landing gear, under belly, wheel wells flap bays.

Safe on all metal parts. Non-flammable. Colour: Green Liquid, pH: 9.9 ± 0.1

Approvals/Conformances: AMS 1533A.



A 4553 02

# KLEENZYME

# **Biological Multi-surface Cleaner & Deodorizer**

Liquid cleaner based on microorganisms and enzymes designed to clean and deodorize cabin, seats upholstery, carpets, toilet floors, vomit etc. Prevents pipes blockages and malodours caused by the accumulation of organic deposits and bacteria due to the disposal of beverages, coffee, milk,

juice and carbonated drinks in galley drain line. Preventive daily treatment reduces the need for mechanical cleaning. Non-corrosive.

Colour: Opaque light green, pH: 7.5 ± 0.5



500ML x 6 10L

### WASTE LINE MAINTENANCE TREATMENT



#### COMPONENT OVERHAUL



#### 2225

# VACTREAT Toilet Line Descaler

Acid based detergent cleaner effective to prevent the build-up of soil deposits in vacuum toilet systems. Prevents the narrowing of vacuum pipes. Reduces the risks of blockage and odour from the calcification accumulation.

Application should be conducted every 7 days. Non-flammable. Colour: Clear green bluish

Approvals/Conformances: Airbus N.T.O., Boeing N.T.O., B.A.E



A 2225 I3

A 2225 02

21 x 6 251

WHEELIE 4204 Wheel and Brake Cleaner

Concentrated degreaser for oil and grease removal. Use in immersion or agitation tanks, spray washing or manual cleaning. Safe on most metals, paints and plastics surfaces. Recommended for all components and engine parts, landing gears, wheel hubs etc. Suitable for galley ovens and surrounding. Non-flammable.

A 4204 02

**Dilution:** up to 1:4, **pH:**  $10.9 \pm 0.2$ Colour: Clear pale yellow

Approvals/Conformances: AMS 1537A, ARP 1755B, ASTM F945, Goodrich, Allied Signal, Honeywell, Pratt & Whitney PWA 36604 (Appendix A) Rev.07/97., Pratt & Whitney SPOP 209.

25L

3471

### **NOVIRUCLEAN**

**Viricidal Disfectant Cleaner & Deodorant** 

Broad spectrum, bactericidal, yeasticidal and viricidal disinfectant cleaner, designed to control the hazardous cross contamination on all internal surfaces. Cleans, deodorises and disinfects all inanimate hard and non-porous surfaces.

MICROBIOLOGIC ACTIVITIES:

Bactericidal (5 mins): EN 1276 (2019), EN 13697 (2019). Yeasticidal (15min): EN 1650 (2019), EN 13697 (2019). Viricidal (10 min): EN 14476 + A2 (2019) on Adenovirus. Norovirus, Rotavirus, HBV, HCV, Herpes Type 1 &2, Ebolavirus, Coronavirus (MERS, SARS-COV1, SARS-COV2 (COVID-19), H1N1, H1N2, H3N2, H5N1, H9N2, HIV.

A 3471 F6

A 3471 02

3466

Suitable for both on board and workshop applications.

No rinsing required. Non-flammable. Dilution: up to 1:200, Colour: Clear **pH (10 %):** 8.7 ± 0.5



AMS 1453 (1:30), AMS 1453A (1:30), Boeing D6-7127 (1:30) Boeing BSS7434 (1:30)

500ML x 6 (RTU 1/30)

251

# 8000

#### **AVIOSOLV I** Non Flammable Cleaner

Low odour solvent, designed to degrease and remove light & heavy soils from component and engine parts, electrical & electronic systems. Safe on aircraft metals with care on some paint and plastic surfaces.

A 8000 02

Leaves no residue. Suitable for immersion, wipe or spray application. Colour: Clear, Flash Point: 62° C (TCC)

#### Approvals/Conformances:

BAE ABR9-0140 Type 2, Rolls Royce 1/257C, Rolls-Royce MLC104/1 CSS255 (TYPE A).

251 2051

#### **NOVIRUSAC GEL** Viricidal Toilet Sanitiser

New technology water-soluble gel for recirculating & vacuum toilet systems. Produces a pleasant perfume for effective odour control and viricidal, bactericidal treatment. Viricidal against: Hep B, HIV (AIDS), Herpes Simplex. Bactericidal against gram positive and negative strains. Non-flammable.

Dilution: 1:200 for initial treatment, subsequently 1:1000

Colour: Dark blue, Odour: Fruity flor at pH (0.5%): 9.5 ± 0.2.

#### Approvals/Conformances:

AMS\_1476B, Boeing D6-17487 Rev. P,

20gm x 200 (water soluble sachets) 25L

### 8300

A 8000 U2

#### **AVIOSOLV II Fast Dry Cleaner**

Quick drying solvent. Removes dust, oil, grease and general soils from component and engine parts. Effective on brake, wheel bay areas, control flaps etc. Safe on aircraft metals with care on some paint and plastic surfaces. Leaves no residue. Use as supplied for cleaning by hand or immersion.

Colour: Clear, Flash Point: 24° C (TCC)



### Approvals/Conformances:

Boeing D6-17487 Rev. L, Douglas CSD # 1 issue 1988, Fokker, Honeywell, Rolls Royce 1/257B, Rolls-Royce MLC104/1 CSS255 (TYPE C).

A 8300 02

A 8300 U2

205L

3479

A 3466 H5

A 3466 02

# **NOVIRUSOL**

Pleasantly perfumed liquid for effective odour control in recirculating & vacuum toilet systems. Viricidal action against Hep B, HIV (AIDS), Herpes Simplex. Bactericidal against gram positive and negative strains. Non-flammable.

Dilution: 1:50 for initial treatment subsequently 1:200

Colour: Dark blue, Odour: Fruity flor at pH: 8.9 (1:50 dilution).

Approvals/Conformances: AMS 1476A.



251

# 2329

#### SILICON-OFF **Adhesive Cleaner**

Water soluble solvent, for removal of silicone sealants, adhesives & resins from aircraft components in cold tank applications. Safe on magnesium, titanium and other metals.

Can be rinsed with water or solver Colour: Dark red / brown, Flash Point: 43° C (PMCC)



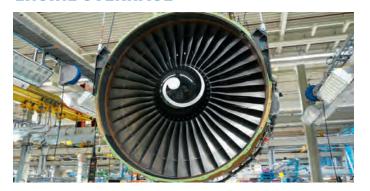
AMS 1386A, G.E. SPM 70-23-20. G.E. SPM 70-23-59, Pratt & Whitney SPOP 254.

A 2329 02

25L



#### **ENGINE OVERHAUL**



#### **ENGINE OVERHAUL**



#### **ENGIKLEEN Immersion Alkaline Deruster & Descaler**

heavy carbon deposits, a host of organic coating and heat modified metallic oxides from ferrous metals. Used as one of a multi-stage cleaning process for the removal of heat scale and oxide

Powdered caustic cleaner. Removes rust, formations from high temperature alloy jet engine components. Non-flammable. Colour: white

> Approvals/Conformances: ARP 1755B, ASTM F 945, G.E. Aircraft Engines, Pratt & Whitney SPMC 200, Garret. Allied Signals.

A 5840 S5	20KG
A 5840 U1	200KG

2690

#### **IMMERKLEEN Immersion Acidic Cleaner / Inhibited Rust Remover**

Concentrated acidic cleaner for effective removal of rust from iron and steel and conditioning scale for subsequent removal treatment. Removes "white-rust" from galvanised and aluminium surfaces. Cleaning process should be preceded by alkaline permanganate (A-5770)

or alkaline (A-5840) treatment. Concentration: 30-50 % v/v Colour: Colourless

#### Approvals/Conformances:

ARP 1755B, G.E. Aircraft Engines. Pratt & Whitney SPMC 21, Allison Engine.

A 2690 02	25L
A 2690 U2	205L

2751

### **SCALITE**

### **Immersion Acidic Cleaner Conditioner**

Powdered sulphamic acidic cleaner. Effective for removal of complex metallic scales from jet engine components in part of a multi-stage process. Treatment should be preceded by alkaline rust remover (ie A 5840).

Concentration: 65-75 g/L. Colour: Golden Yellow



ARP 1755B. G.E. Aircraft Engines. Pratt & Whitney SPMC 201, Allied Signals.

A 2751 S5	20KG
A 2751 U1	200KG

#### **SCALEX**

### **Immersion Alkaline Permanganate Scale Conditioner**

Powdered **permanganate cleaner.** Used as one part of a multi-stage process for the removal of complex metallic scales from jet engine components. Used subsequently to alkaline (A-5840) or acidic treatment (A-2690).

Safe on steel and other relevant metals. Non-flammable. Colour: Deep purple

#### Approvals/Conformances:

ARP 1755B, G.E. Aircraft Engines, Pratt & Whitney SPMC 202, Garret.

A 5770 S5	20KG
A 5770 U1	200KG

# 3922

# METSOAK AK3922 Immersion Rust & Carbon Remover

containing alkalis, sequestering agent and emulsifying detergent designed for the removal of rust, paint, combustion engine deposits and oxidised grease and oil. Will not promote rapid re-rusting.

Powdered heavy duty immersion cleaner Non-corrosive to ferrous metals including cast iron and stainless steel. Care should be taken on non-ferrous components. Economical to use. Non-flammable.

Colour: white

Approvals/Conformances:



25KG B 3922 02

#### **METSOLV 4019** 4019 Fast Drying Solvent Cleaner

**High purity solvent** designed for use as an air drying solvent cleaner and degreaser. Removes oils, greases, resins, waxes and general dirt. Suitable for use

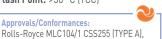
on metals, solvent resistant plastics and composite. Can be used for the cleaning of electrical components and switchgear

thanks to its high dielectric strength.

Leaves no residue. Low vapour toxicity. Use as supplied for cleaning by hand, spray or immersion.

Colour: Colourless, Flash Point: >30° C (TCC) Approvals/Conformances:

Boeing D6-17487 Revision L.



# 566

E 4019 J1

#### PRONATUR® ORANGE SOLVENT **Environmentally Friendly Cleaner**

Versatile safe degreasing solvent, blend of orange oils and synthetised mineral oils which effectively dissolves grease, heavy oil, bitumen, tar, wax, adhesive, sealant, oil based ink, chewing gum, silicone. Leaves a light film that protects parts. Safe on most surfaces.

For all mechanical parts, engines, electric motors, tanks. Can be used in dip tanks, ultrasonic baths, parts washers. Non-flammable.

Colour: Yellow, Flash Point: > 62° C (TCC)



Rolls-Royce MLC104/1 CSS255 (TYPE C)

Approvals/Conformances:

0 0566 02 0 0566 U2

PENETONE 19

**Turbine Cleaner** 

25L 205L



# 4410

Concentrated solvent cleaner, designed to remove oils, greases and atmospheric soils on aircraft turbine compressor. Effectively clean all interior and exterior parts of the turbine (compressor air foils, turbine blades...). Non-Flammable. Reduces corrosion of compressor blades, stators and discs.

Colour: Pale Yellow, Flash Point: > 60°C (TCC)



### Approvals/Conformances:

Rolls Royce (Canada), Solar Turbines Incorporated: ES-9-62, Westinghouse Electric Corporation, European Gas Turbines, Siemens ASTM D 1976, ASTM D 512, ASTM D 1888, ASTM D 482, ASTM D 93, General Electric

A 4410 02	25L
A 4410 U2	205L

# PAINT STRIPPING/CORROSION INHIBITOR COMPOUND CLEAN



### GROUND SERVICE EQUIPMENT & WORKSHOP



### 3062Y

#### **ULTRATAK XL HEAVY YELLOW Cleaning Wipe for Finishing & Painting Operations**

Resin impregnated textile cleaning wipe, designed to remove & collect dust, dirt, fibres, hair and other particles from prepared surfaces prior to finishing, painting or enhancement. Non-woven polyester, lint free. High dirt absorbency prevents re-deposition of dirt.

Contains no solvent. Strong, tear resistant. Size (unfolded): 40cm x 60cm Cloth weight: 52g/m<sup>2</sup> Colour: Yellow

Approvals/Conformances: AIRBUS CMS 9352697827.

D 3062 Y

50 sachets of 10 wipes

### 3120

#### **BULLDOG GOLD** Vehicle Wash

Heavy duty detergent cleaner, designed to remove dirt, soils, and road grime from light / heavy vehicles as well as handling equipment. Suitable for use in automatic car and truck wash installations. High foaming action does not leave streaks.

Safe on all metals, paintwork, chrome glass and plastic curtains. Non-flammable. Dilution: up to 1:50. Colour: Bright fluorescent Yellow **pH (1 %):** 9.6 ± 0.3

A 3120 02 25L A 3120 U2 205L

### 8770

#### **CARBEX Decarboniser/Paint Stripper Concentrated**

Powerful 2 phases solvent system, designed to remove carbonised oil and grease, paint, rubber moulds, adhesives and synthetic finishes from components and engine parts. Safe on all metals.

Use by immersion at ambient temperature without agitation. Non-flammable.



Colour: Dark Brown



A 8770 U2

2051

# REDUCE 4

#### **High Performance Release Agent**

Fast acting penetrating agent, developed for mechanical parts exposed to harsh conditions. Cleans, penetrates, dissolves rust, lubricates and protects. Provides a water-repellent and phosphate coating. Suitable for very seized assemblies, bolts, nuts, screws, threads, pulleys.

Frees corroded parts without thread damage. Contains no silicone.

Non-flammable.

Colour: Colourless, Flash Point: > 60°C

Approvals/Conformances: Boeing D6-17487R,

Aerosol 250ML x 12

Airbus AIMS 09-00-002, US MIL G234111

5L x 4 0 0800 J1

#### **PAINT STRIP P Heavy Duty Paint Remover**

Viscous liquid, designed to remove polyurethane, epoxy, enamel & coating from aircraft exterior painted surfaces. Its texture clings to vertical surfaces and prevents any unwanted drips and run-off.

Apply to clean surface, allow paint to soften, scrape away and rinse with high pressure water. Non-flammable. Colour: Yellow

Approvals/Conformances: AMS 1375B.



A 8758 U2

205L

### 8370

0 0800 A2

# **Emulsifiable Solvent Degreaser**

Concentrated solvent degreaser blend of aromatic solvents and biodegradable surfactant, formulated for the removal of heavy soils, fuel oils, tars, heavy greases and tenacious lubricants. Safe on metals, glass stone, concrete

and most paints.

Care to be taken on certain paint, plastic and rubber, tar & asphalt materials. Non-flammable.

Dilution: up to 1:8 Colour: Amber.

A 8370 02 25L

8293

A 8293 02

# CITRIKLEEN X520

#### **Environmentally Friendly CIC Remover**

Powerful solvent, formulated from naturally-derived citrus oils. Quickly dissolves oils, greases, adhesives and waxes from aircraft components. Recommended for removing corrosion inhibition compound as well as contact adhesive on aircraft surfaces.

Safe on all metals with care on some paint and plastic surfaces. Leaves no residue. Use as wipe on/wipe off or by tank immersion.

Colour: Clear colourless, Flash Point: 45° C (TCC)

Approvals/Conformances: Boeing D6-17487 Rev. P



#### MAGNUS® 758 **Runway Cleaner**

### Non-phenolic solvent degreaser,

designed to remove rubber deposits from asphalt concrete and Portland cement concrete airfield pavements. **Dissolves** rubber, paints, carbonized paint, grease and sludge from metal surfaces.

Leaves no oily residue. Safe on aluminium and steel. Economical. Dilution: up to 1:3, Colour: Yellow, **pH**: 11 ± 0.5

M 7758 02

7758

25L

Since 1942, ORAPI Group has been understanding and anticipating the requirements of the Aviation Industry. Providing mechanical and maintenance engineers, Technologically Advanced Solutions, to improve process cleaning efficiency and reduction of operation costs without compromising quality and standards.

#### Conformance

The high quality and manufacturing standards of APPLIED products are continually confirmed by major O.E.M. corporations (Goodrich, Boeing, Allied Signal, Honeywell, G.E., Pratt & Whitney, Rolls Royce etc), and tested by independent certification bodies, such as: ISO standards - 9001: 2015, military standards - NATO, US MIL, aeronautic standards - ASNA, AIMS, AMS, BOEING BSS.

These audits and certifications often award APPLIED the top grades, while respecting the standards of high quality in terms of products and technology.

#### **InternationalNetwork**

With a distribution coverage in more than 150 countries and manufacturing facilities in major continents. The ORAPI Group is well positioned to provide the necessary local support and expertise resources backed by a global International Organization.

The ORAPI Group is committed to ensure safety and developing products that are environmentally friendly. Our goal is to provide technological innovations which are safe to the public health and maintaining the quality of the environment.



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