

SAFE CARE®

Product Application Sheet

Aviation

SAFE CARE® products are 100% plant-based, completely non-toxic, non-corrosive, readily biodegradable and safe to use in the aviation industry.

APPLICATIONS:

- Exterior washing
- Interior general surface cleaning
- Heavy duty parts washing
- Galley cleaning
- Wheel cleaning
- Carpet and upholstery cleaning
- Window cleaning
- Runway cleaning

EXTERIORS

For routine exterior washing, use **SC-Aircraft™ & Metal Cleaner** at a 10% - 20% dilution. Using a pressure washer, apply solution at a minimum temperature of 70°F, but for optimal results use at 110°F. (Do not exceeding 130°F). Rinse the exterior from top to bottom, apply product from bottom to top using nylon bristle handled mop to scrub as necessary. Rinse from top to bottom.

Always pre-spot exterior leading edge surfaces such as cowlings, nose, windshield, wing edges, exhaust farings and landing gear boxes with a 50% solution of **SC-Aircraft™ & Metal Cleaner**. Let the solution dwell for 3 - 5 minutes before proceeding with the all over washing process. Best cleaning results are achieved with repeated use, and will help in the prevention of oxidation.

Products

- SC-Aircraft™ & Metal Cleaner Concentrate
- SC-1000™ Aqueous Cleaner Concentrate
- SC-Supersolv™ Safety Solvent
- SC-Safe-T-Solve Concrete Cleaner

Available Information

- Product Data Sheet
- Material Safety Data Sheet
- Available Test Data

We recommend the use of **SC-Aircraft™ & Metal Cleaner** for cleaning all non-ferrous metal surfaces and parts. However, wherever ferrous metal, rubber and/or vinyl are used such as conveyer belts and wheel assemblies other **SAFE CARE®** products may be used for the most cost effective and optimal cleaning solution. The most typical heavy-duty soils are inert carbon black (soot), which can be easily removed with **SC-Aircraft™** or **SC-1000™**, but will require some dwell time and agitation. With just a few core products, the full scope of aircraft cleaning can be accomplished safely and economically.

PARTS WASHING

For aluminum parts washing, we recommend **SC-Aircraft™ & Metal Cleaner** at a 20% solution and heated to 110°F. The parts should be submerged and allowed to dwell for 5 – 10 minutes before agitation. Use a fine poly bristle brush to scrub lightly, then rinse with warm water and allow to dry.

Where non-Mil Spec products are acceptable for use with ferrous metal parts, **SC-1000™** is regularly used at a 50% solution for removing heavy soil including petroleum lubricants and greases. If necessary, the solvating strength of **SC-1000™** may be increased by blending it with **SC-Supersolv™** at a 90/10 ratio then creating a 20% solution. For faster results, heat the parts washing solution to 130°F. All aircraft parts cleaning should be followed by a warm water rinse with filtered water to 5 microns.

Note: Typically, this kind of cleaning is done with sodium phosphates (alkaline) or phosphoric acid. While both types of products remove soil, they usually remove a micron of aluminum too. These solutions are cheap and effective but damage the aircraft with repeated use causing life-cycle maintenance issues.

All product data, including suggested dilutions and procedures are believed to be correct. Users of **SAFE CARE®** products should perform their own test(s) to determine the suitability of each product for their own purposes. The products discussed are sold without any warranties either expressed or implied, including warranties of merchantability and of fitness for a particular purpose.



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INTERIORS

SC-1000™ is an effective, safe product to use for all interior aircraft cleaning. It is non-VOC, non-flammable and non-toxic to personnel and passengers. As a concentrated product, **SC-1000™** will be used diluted with water and does not require special safety gear.

For carpeting and upholstery cleaning using an extraction machine, **SC-1000™** may be use at a 1% solution. If pre-spotting is needed, use a 50% solution of **SC-1000™** with a sprayer bottle and brush lightly before proceeding with extraction cleaning. For heavily soiled carpet and upholstery, use a 5% solution, and follow-up with a clean water rinse. When using more than a 1% solution, it is important to follow-up with a clean water rinse and absorbed with a towel or extraction machine as residue product left on the fibers will attract soil.

Seat belts, including the fabric strap and metal buckle, may cleaned with a 5% solution of **SC-1000™** which may be increased or decreased depending on the soil.

For all hard surface including plastic, vinyl, paint, and stainless steel, a 5% solution in a spray bottle will be ample for spray-on, wipe-off applications. Instrument panels may be cleaned with a 2% solution of **SC-1000™**.

Plastics, vinyl or rubber are not crazed or dried by the use of **SAFE CARE®** products because of their anti-oxidant nature; they actually preserve these surfaces.

Lavatories including sinks, toilets, walls and floors may also be cleaned with **SC-1000™**. Sinks, counters, and walls are typically cleaned with a 10% solution, while floors and toilets may require a 25% solution followed by a clean water rinse.

RUNWAYS

SC-Safe-T-Solve Concrete Cleaner will enhance the operation of cleaning equipment by causing the release of organic soils including petroleum, coolants, greases, and typical soils on runways, roads, and parking lots. **SC-Safe-T-Solve Concrete Cleaner** provides a superior performance when combined with a high pressure hot, warm, or tap temperature spray. Atomization poses no problem, as the blend of **SC-Safe-T-Solve Concrete Cleaner** is non-hazardous to people when used as directed.

In spray washing, best results are obtained by the use of high pressure, low-volume equipment, i.e. 300 - 500 lbs. pressure and a volume of 2 to 3 gallons per minute. The best spray nozzle to use is the 20-degree Vee-Jet type. Use a 1-2% solution of **SC-Safe-T-Solve Concrete Cleaner** and apply to the surface.

Pre-treating difficult areas will speed up the overall application. Spray with **SC-Safe-T-Solve Concrete Cleaner** and water, mixed at the desired concentration, and let stand until the soil on the surface is loosened. A solution of one part **SC-Safe-T-Solve Concrete Cleaner** to 20 parts water has proven effective for most concrete cleaning applications. However, the concentration may vary depending on the specific conditions.

Using the equipment described above, start at one edge of the surface. Hold the spray nozzle of the gun approximately 6 - 8 inches from the surface at a 45-degree angle and move forward. This action causes the water to penetrate under the loosened soil and to roll it forward in front of the spray nozzle. On vertical surfaces, always start at the bottom of the vertical surface to be cleaned and apply the solution upward. The actual cleaning is accomplished by rinsing with water.

Safely
CLEANING
planet earth

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