

Sentinel XL™ and Sentinel XT™ PAPR

Cleaning Solutions, Limitations, & Applications

CLEANING SOLUTION USAGE & LIMITATIONS

The Sentinel XL™ and Sentinel XT™ Powered Air Purifying Respirator (PAPR) is a multiple-use unit that may be cleaned with common products, noted in the chart below. ILC Dover does not recommend or endorse any specific procedures, application methods, or frequency of cleaning for our products. Implementing any protocol is the sole responsibility of the equipment end user in consideration of, but not exclusive to (i) recurrence and interval of use, (ii) single or multi-users, (iii) environmental conditions, and (iv) the type and level of potential contamination of the components involved during use.

Spun bonded, non-woven hoods, and respirator filters are limited use components of the system. Refer to the User Guide for more information.

CLEANING SOLUTIONS AND MAXIMUM CONCENTRATIONS

The following common products are acceptable for cleaning on all ILC Dover Sentinel XL™ and Sentinel XT™ PAPR components, including butyl and spun bond non-woven hoods, blower with integrated battery and filters, hoses, and belts.

Cleaning Solution	Maximum Concentration
Lysol® Brand I.C. Quaternary Disinfectant Cleaner	Not to exceed ½ ounce per 1 gallon of water
Lysol® Brand All Purpose Disinfectant Cleaner	Not too exceed 8.5 ounces per 1 gallon of water
Clorox® Clean-Up Cleaner with Bleach	May be used full strength
Clidox®-S (Chlorine Dioxide	1:18:1 as a wipe down 1 part base, 18 parts water, 1 part activator
PDI Sani-Cloth® Plus (germicidal disposable cloth)	Use cloth to thoroughly wet surface and let air dry. Treated surface must remain visibly wet for full five (5) minutes.

SOLUTION APPLICATION AND LIMITATIONS

- The cleaning solutions noted above may be applied via cloth, paper towels, or spraying methods.
- Never submerge or immerse any Sentinel XL™ or Sentinel XT™ PAPR blower, filter, hose, or hood components in liquid, as this may permanently damage the electronics, batteries, or affect hood or hose function.
- Wipe components dry with a soft cloth following solution application and rinse with clean water, unless noted to air dry.

Sentinel XL™ products are NIOSH approved, however, NIOSH does not conduct testing on the PAPR system or its components in connection with decontamination from chemical or biological exposure.

SENTINEL USER MANUAL EXCERPTS RELATED TO CLEANING

Refer to full User Manual for complete details and to our [Seller's Terms & Conditions](#).

Service Life of HEPA Cartridges and Cartridges

The useful service life of HEPA cartridges will depend upon the flow rate, the specific type, volatility and concentration of the contaminants and environmental conditions such as humidity and temperature. Replace cartridge in accordance with an established cartridge change schedule. Cartridges should be changed earlier if smell, taste or irritations from the contaminant is detected. Cartridges must be replaced if they become damaged, soiled or if increased breathing resistance occurs.

CLEANING

Solvents should not be used to clean the PAPR blower unit, battery pack, hose and hood. Liquid solvents may chemically weaken the plastic. Wipe the PAPR blower unit, batter pack, hose and hood with mild cleaning solution. The decontamination solutions may be applied via cloth, paper towels, or spraying methods. Do NOT decon the battery charger. Wipe components dry with a soft cloth following decontamination and rinsing with clean water, unless noted to air dry. Never submerge or immerse any Sentinel XL™ PAPR blower, filter, hose, or hood components in liquid, as this may permanently damage the electronics, batteries, or affect the hood or hose function. Ensure all components are completely dry before using the system or charging the battery.

Follow the hygiene practices established by your employer for the specific contaminants to which you may have been exposed.

For the optional S-4011 Quick-Loc Belt, standard disinfecting solutions may be used to clean the belt and clips.

WARNING

DO NOT CLEAN HEAD COVER WITH DETERGENTS THAT CONTAIN LANOLIN OR OTHER OILS SINCE THEY MAY SOFTEN OR DISTORT THE VISOR.
DO NOT WIPE THE VISOR WITH SOLVENTS LIKE MEK, ACETONE, TOLUENE, AS THOSE MAY DAMAGE OR DISTORT THE VISOR.
DO NOT SOAK HEAD COVER OR COMPONENTS IN CLEANING SOLUTIONS OR SOLVENTS. MISUSE MAY ADVERSELY AFFECT RESPIRATOR PERFORMANCE AND RESULT IN INJURY OR DEATH.

INSPECTION

After each use, inspect the head cover assembly to identify signs of damage or wear that may affect performance of the respirator and reduce the degree of protection provided. The Troubleshooting Section, in this manual, contains a troubleshooting guide to help you identify the proper action to take for specific problems that may be detected.

Head Cover

Check that there are no tears or punctures in the hood assembly. Look closely at the stitching. There should be no tears that could permit contaminated air to enter the head cover.

Visor

Look for scratches or other visual distortions that make it difficult to see through visor.

Breathing Hose

Carefully examine the entire breathing hose. Look for tears, holes or cracks. Bend the hose to verify that it is flexible.

PAPR Blower Unit

- Remove the cartridges and assure that the rubber gaskets are in place.
- Examine the blower housing for cracks. Replace if cracked or damaged.
- Examine the outside of the battery pack for cracks. Replace if damaged.

Cartridges

- Examine cartridges for mechanical damage and deformities. Replace if damaged.

Blower Plug

- Examine the plug in the blower inlet, and insure a tight seal against the internal gasket.
- Re-tighten if necessary.