

INJECTORS DISINFECTING GUIDELINES

Diagnostic imaging





OPTIVANTAGE®



ILLUMENA® NEO



READY BOX®



OPTIONE®



OPTISTAR® ELITE




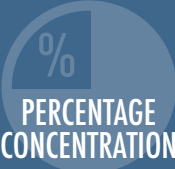



The Chemical agents listed are determined using the EPA list for disinfectants against COVID-19

OPTIVANTAGE® / OPTIONE®

DISINFECTING GUIDELINES



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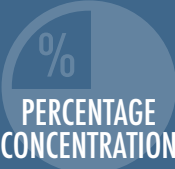



 <p>CHEMICAL AGENT</p>	 <p>PERCENTAGE CONCENTRATION</p>	 <p>AGENT PRODUCT EFFECT</p>	 <p>RECOMMENDATION OF USE</p>	 <p>PRODUCT DETAILS</p>
<p>Ethyl Alcohol (Ethanol)</p>	<p>62%</p>	<ul style="list-style-type: none"> ▶ No components were affected ▶ Did not cause any damage or discoloration to any of the tested components or surfaces 	<ul style="list-style-type: none"> ▶ The most benign chemical for use 	
<p>Hydrogen Peroxide</p>	<p>2.2%</p>	<ul style="list-style-type: none"> ▶ The powerhead screw coating had a minor affect ▶ No plastic or rubber components were affected 	<ul style="list-style-type: none"> ▶ Only a small effect on some plating of metals. Should recommend that the percentage levels are kept this low for either one or both chemicals 	<ul style="list-style-type: none"> ▶ Powerhead Screws: Material: 904142 - 10 mm Screw; Steel with Black Zinc Coating:
<p>+ Isopropyl Alcohol (Isopropanol)</p>	<p>0.5%</p>	<ul style="list-style-type: none"> ▶ There was a slight effect on hardware: power head screws 		<ul style="list-style-type: none"> ▶ in the pre vs. post disinfectant, there was some slight removal of the black zinc coating
<p>Citric Acid</p>	<p>0.6%</p>	<ul style="list-style-type: none"> ▶ Two components were affected ▶ Moderate effect on some plating of metals ▶ The powerhead screw coating was slightly affected ▶ The console hinge screws was moderately affected as far as appearance with respect to the oxide coating 	<ul style="list-style-type: none"> ▶ For use on plastics only 	<ul style="list-style-type: none"> ▶ Power head screws: 904142 - 10 mm Screw; Steel With Black Zinc Coating ▶ Console Hinge Screws: 904159 - #10 Screw, Steel With Zinc Coating

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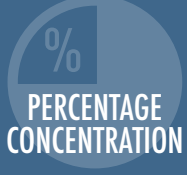



 <p>CHEMICAL AGENT</p>	 <p>PERCENTAGE CONCENTRATION</p>	 <p>AGENT PRODUCT EFFECT</p>	 <p>RECOMMENDATION OF USE</p>	 <p>PRODUCT DETAILS</p>
<p>Ethyl Alcohol (Ethanol)</p>	<p>62%</p>	<ul style="list-style-type: none"> ▶ The product did not cause any damage or discoloration to any of the tested components or surfaces ▶ No components were affected ▶ No damage on any hardware with zinc or black oxide plating 	<ul style="list-style-type: none"> ▶ Most benign chemical of the test disinfectants and should be the first to be recommended 	
<p>Hydrogen Peroxide</p>	<p>2.2%</p>	<ul style="list-style-type: none"> ▶ A minor effect on the Pedestal Hub blue paint (dots created) ▶ A medium effect on the lag screws zinc plating 	<ul style="list-style-type: none"> ▶ Should recommend that the percentage levels are kept this low (or lower) for either one or both chemicals 	<ul style="list-style-type: none"> ▶ PEDESTAL HUB: Material: 905838 - Lexan FL900 Polycarbonate Structural Foam. Only the portion painted PMS 296 (Guerbet Blue) was affected. ▶ LAG SCREWS: Material: 904162 - STEEL; ZINC PLATING
<p>+ Isopropyl Alcohol (Isopropanol)</p>	<p>0.5%</p>			
<p>Citric Acid</p>	<p>0.6%</p>	<ul style="list-style-type: none"> ▶ The Pedestal Hub blue paint had minor staining ▶ A medium effect on the lag screws zinc plating ▶ Seven additional hardware components had medium discoloration of the plating ▶ Six of the hardware components had minor to medium plating removal 	<ul style="list-style-type: none"> ▶ For use on plastics only 	<p>Only the portion painted PMS 296 (Guerbet Blue) was affected.</p> <ul style="list-style-type: none"> ▶ 904119 - STEEL; ZINC PLATING ▶ 904101 - STEEL; ZINC PLATING ▶ 904162 - STEEL; ZINC PLATING ▶ 904145 - STEEL; ZINC PLATING ▶ 904134 - SPRING STEEL; BLACK OXIDE ▶ 311S0012 - STEEL; ZINC PLATING ▶ 311S0041 - STEEL; ZINC PLATING ▶ 311S0032 - STAINLESS STEEL; ZINC PLATING

OPTISTAR® ELITE

DISINFECTING GUIDELINES



OPTISTAR® ELITE DISINFECTING GUIDELINES


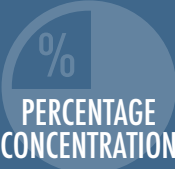



 CHEMICAL AGENT	 PERCENTAGE CONCENTRATION	 AGENT PRODUCT EFFECT	 RECOMMENDATION OF USE	 PRODUCT DETAILS
Ethyl Alcohol (Ethanol)	62%	<ul style="list-style-type: none"> ▶ No tested components / materials were affected by the disinfectants ▶ Most benign chemical 	<ul style="list-style-type: none"> ▶ Primary recommended disinfectant 	
Hydrogen Peroxide	2.2%	<ul style="list-style-type: none"> ▶ Isopropyl Alcohol (Isopropanol) had only some minor effects on metal hardware coating 	<ul style="list-style-type: none"> ▶ Recommend that the percentage levels are kept this low (or lower) for either one or both chemicals 	<ul style="list-style-type: none"> ▶ SCREW, M4X.7, 10MM, PR, TH, BLK: Steel: Black Zinc Finish ▶ SCREW, M4X.7, 10MM, PH W/LCK & FLT WSHR: Brass with nickel plating
+ Isopropyl Alcohol (Isopropanol)	0.5%			
Citric Acid	0.6%	<ul style="list-style-type: none"> ▶ It had some minor to medium issues with metal hardware components and their coatings 	<ul style="list-style-type: none"> ▶ For use on plastics only 	<ul style="list-style-type: none"> ▶ SCREW, M4X.7, 10MM, PR, TH, BLK: Steel; Black Zinc Finish ▶ SCREW, M4X.7, 10MM, PH W/LCK & FLT WSHR: Brass with nickel plating

READY BOX[®]

DISINFECTING GUIDELINES



READY BOX® DISINFECTING GUIDELINES

 <p>CHEMICAL AGENT</p>	 <p>PERCENTAGE CONCENTRATION</p>	 <p>AGENT PRODUCT EFFECT</p>	 <p>RECOMMENDATION OF USE</p>	 <p>PRODUCT DETAILS</p>
Ethyl Alcohol (Ethanol)	62%	<ul style="list-style-type: none"> ▶ Most benign chemical ▶ No tested components/materials were affected by the disinfectants. 	<ul style="list-style-type: none"> ▶ The primary recommended disinfectant 	
Hydrogen Peroxide	2.2%	<ul style="list-style-type: none"> ▶ Minor effects on metal hardware coating 	<ul style="list-style-type: none"> ▶ Recommend that the percentage levels are kept this low (or lower) for either one or both chemicals 	<ul style="list-style-type: none"> ▶ SCREW,SEM,6-32X1/4" SLOT HEX, WASHER: Zinc plated steel ▶ SCREW-THREAD FORMING 6-32 X1/2 HEX WASHER HEAD: Zinc plated steel ▶ WASHER - #8 INT. TOOTH: steel ▶ NUT-8-32X1/4 HEX: steel ▶ SCREW-8X1/2 PR TH: steel
+ Isopropyl Alcohol (Isopropanol)	0.5%			
Citric Acid	0.6%	<ul style="list-style-type: none"> ▶ Minor to medium issues with metal hardware components and their coatings 	<ul style="list-style-type: none"> ▶ For use on plastics only 	<ul style="list-style-type: none"> ▶ SCREW,SEM,6-32X1/4" SLOT HEX, WASHER: Zinc plated steel ▶ SCREW-THREAD FORMING 6-32 X1/2 HEX WASHER HEAD: Zinc plated steel ▶ WASHER - #8 INT. TOOTH: steel ▶ NUT-8-32X1/4 HEX: steel ▶ SCREW-8X1/2 PR TH: steel

LEGAL MENTIONS

Optivantage® DH Contrast Media Injectors is a medical device intended for use by qualified healthcare professionals, it is a contrast delivery system and is designed to inject radiopaque contrast media into a patient's vascular system to obtain diagnostic images when used with computed tomography (i.e. "CT") equipment. Ensure that injection from multi-dose containers and to more than one patient respects the valid rules of good practice and the marketing authorization (MA) of the contrast agent and local regulatory requirements. For complete information about precautions and optimal usage conditions, we recommend consulting the instruction for use supplied with the device or by your local Guerbet representative(s). For use only in countries with applicable health authority registrations

Class IIb/CE TÜV SÜD 0123 Manufacturer: Liebel-Flarsheim Company LLC EC Rep: Guerbet

The **Optione®** Single-Head Contrast Media Injector is a class IIb (CE) medical device intended for use by qualified healthcare professionals, is intended to inject radiopaque contrast media into a patient's vascular system to obtain diagnostic images when used in conjunction with computed tomography (CT) equipment. For complete information about precautions and optimal usage conditions, we recommend consulting the instruction for use supplied with the device or by your local Guerbet representative(s). For use only in countries with applicable health authority registrations

Class IIb/CE TÜV SÜD 0123 Manufacturer: Liebel-Flarsheim Company LLC EC Rep: Guerbet

Illumena® Neo Contrast Media Injectors is a medical device intended for use by qualified healthcare professionals, it is designed to inject a radiopaque contrast medium into the vascular system for Angiographic or CT procedures as prescribed by qualified health care professionals. Contraindications for the use of this device are determined by the prescribing physician at the time of use based upon the contrast media package inserts. For complete information about precautions and optimal usage conditions, we recommend consulting the instruction for use supplied with the device or by your local Guerbet representative(s). For use only in countries with applicable health authority registrations

Class IIb/CE TÜV SÜD 0123 Manufacturer: Liebel-Flarsheim Company LLC EC Rep: Guerbet

OptiStar® Elite Contrast Delivery System is a medical device intended for use by qualified healthcare professionals. It is intended to inject MR contrast media and flushing solutions into a patient's vascular system to obtain diagnostic images when used in conjunction with Magnetic Resonance (MR) Imaging equipment. For complete information about precautions and optimal usage conditions, we recommend consulting the instruction for use supplied with the device or by your local Guerbet representative(s). For use only in countries with applicable health authority registrations.

Class IIb/CE. TÜV SÜD 0123 Manufacturer: Liebel-Flarsheim Company LLC EC Rep: Guerbet

Ready Box® Contrast Warmer is a medical device intended for use by qualified healthcare professionals to warm contrast media to approximately body temperature. For complete information about precautions and optimal usage conditions, we recommend consulting the instruction for use supplied with the device or by your local Guerbet representative(s). For use only in countries with applicable health authority registrations

Class IIa/CE TÜV SÜD 0123 Manufacturer: Liebel-Flarsheim Company LLC

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