Cleaning and Disinfection – Disinfection

Your Objectives:

At the end of the lesson, you should be able to describe the distinction between disinfecting and sterilising, and to identify some different types of cleaning agents.

Further distinctions

disinfection need be differentiated.

As we learned in Lesson 15, a distinction need be made between cleaning, disinfecting and sterilising.
Bacterial and spores are one of the most pervasive and
microorganisms on the .
differ greatly in their resistance to
agents. By definition, a environment is 100 per-cent free of all
microorganisms, including spores. This is a crucial point in bioscience pharmaceutical facilities,
as microbiologically clean and contamination procedures must be
strictly followed under federal law.
There are so many different technologies and chemicals that will provide disinfection and sterilization. The distinction between sterilization and disinfection is an important one.
Sterilization methods require the of all microbial life including their
**, while disinfection only address
cells. Although disinfection methods may slow, disrupt, or hinder,
the proliferation of contaminants, they are not considered sporicidal . Hence, sterilization and

USP,* Chapter 1072)						
Antiseptic—An agent that			or destroy	s microorg	anisms on li	ving
tissue, including skin, oral ca	avities, and	open wounds.				
Chemical		—A chemical a	gent used o	on inanima	te surfaces	and
objects to destroy	any			fungi,	viruses,	and
	, but not	necessarily their s	pores.			
Cleaning agent—An agent		moval from facili		•		
Decontamination —The		of	undesirable	e microorga	nisms, eithe	r by
disinfection or by sterilization	on.					
Disinfectant —A chemical of harmful microorganisms		l agent that dest applied to a	•	noves vege Disinfectan		s of ften
	as high	-level, intermedia	ate-level an	d low-leve	el, by medi	cally
oriented groups, based on t	heir efficac	cy against various	undesirable	microorgan	isms.	
Sanitizing agent—An agent	for reduc	cing, on inanimate	e surfaces, t	the number	r of all form	s of
microbial life including			,		,	and
bacteria.						
Sporicidal agent—An agent	t that dest	roys bacterial and	fungal spo	res when u	sed in suffic	ient
concentration for a specific	ed contact	t time. It is desig	ned to			all
vegetative microorganisms.						

Distinctions between sterilization, disinfection and sporicidal properties (as stated in the

Sterilant—An agent that destroys all forms of microbial life including fungi, viruses, and all
forms of bacteria and their spores. Sterilants are or vapour-phase
agents.
* USP stands for United States Pharmacopeia, a compendium of official conventions for
compounding clean-rooms.
Further information here:
https://blog.gotopac.com/2018/11/07/guide-to-usp-disinfectants-sporicides/
For Newsletter:
https://www.uspnf.com/
App available for MacOSx: (4.00 CHF):
https://apps.apple.com/us/app/800-hazrx/id1287841111?ls=1
App available for Android (3.90 CHF):
https://play.google.com/store/apps/details?id=org.usp.android.HazrxApp
Additional info re. Covid-19:
https://www.uspnf.com/notices/delayed-implementation-comment-covid-response-20200327?
_ga=2.40411810.1401929157.1621780776-1739098156.1621780776
** The main difference between spore and endospore is that a spore is an active
structure mainly produced by plants and fungi, whereas
endospores are a dormant, non-reproductive structure of bacteria.
Aufgabe Lückentext:
Folgende Wörter bitte in den Lückentext einfüllen. Jedes Wort kommt einmal vor.

bacteria, categorized, disinfection, disinfection, disinfectant, elimination, environments, fungal, fungi, inhibits, infectious, kill, liquid, methods, Microorganisms, planet, resilient, residues, removal, reproductive, spores, vegetative, viruses

Bitte Gross- und Kleinbuchstaben beachten.