

COUNT-OFF™

Liquid Concentrate Radioactivity Decontaminant

Fast, effective **COUNT-OFF** – the ideal all-purpose decontaminant

COUNT-OFF Liquid Concentrate cleans up even the most persistent left-overs:

- radioactive residues
- stopcock and vacuum greases
- lanolin
- petroleum jelly
- dried blood and serum
- fatty and amino acids
- protein complexes
- polymer films and other stubborn residues

Mild and efficient **COUNT-OFF** is *economical too!*

- superior decontamination
- 2% working solution – extremely effective solution for the removal of radioactivity from the surfaces of laboratory glassware and equipment – mild to hands without toxic vapors associated with chromic acid
- pump dispenser makes measuring COUNT-OFF easy and accurate – no spills or waste, so COUNT-OFF lasts and lasts
- non-reactive emulsifiers
- efficient substrate removal
- economical to use

Safe and stable

COUNT-OFF is safe and stable under extreme temperature fluctuations (from -50°C to 150°C). At 2% concentration, the COUNT-OFF solution is a mild reagent with alkalinity equivalent to a 10^{-2} molar sodium hydroxide solution, mild to the skin. Moreover, COUNT-OFF solution will not produce toxic gases from substrates containing ^{14}C , ^{131}I , ^{35}S or ^{36}Cl , known to be produced by strongly acidic cleaners such as chromic acid.

CAUTION

As with all slightly alkaline cleaning solutions, COUNT-OFF, diluted for normal use, can attack amphoteric metals such as aluminum and zinc. These surfaces should either be cleaned with utmost care to avoid possible etching or cleaned with a different and non alkaline surfactant system.

COUNT-OFF™ Radioactive Decontaminant

Fast, effective, is the superior radioactivity decontaminant and laboratory cleaner

At NEN's radiochemical synthesis laboratories, we constantly evaluate decontaminant solutions. Our corporate Analytical Laboratory compared COUNT-OFF Liquid Concentrate with four widely used decontaminant solutions under strict controls.

We are proud to publish the following results:

TEST # 1 FASTEST ACTION

Most effective fast-action decontamination (one hour at 50 °C)
COUNT-OFF surpasses all others in overall capacity to remove residual activity.

DECONTAMINANT AT RECOMMENDED CONCENTRATION	% Activity Remaining After One Hour At 50°C								TOTAL POINTS	TOTAL RATING
	³ H AMINO ACID MIXTURE		¹⁴ C AMINO ACID MIXTURE		³² P PHOSPHORIC ACID		¹²⁵ I BOVINE SERUM ALBUMIN			
COUNT-OFF™ 2.0% solution	0.24	#1	0.11	#1	<0.01	#1	0.05	#1	4	#1
PRODUCT A 2.5% solution	1.92	#5	8.22	#5	0.09	#5	15.0	#5	20	#5
PRODUCT B 2.0% solution	0.34	#2	1.23	#2	<0.01	#1	0.13	#2	7	#2
PRODUCT C 0.75% solution	0.50	#4	2.24	#4	<0.01	#1	0.23	#4	13	#4
PRODUCT D 2.0% solution	0.36	#3	1.79	#3	<0.01	#1	0.13	#2	9	#3

TEST # 2 MOST EFFECTIVE DECONTAMINANT

Most effective 24-hour decontamination (at room temperature)
Tested at ambient temperatures, COUNT-OFF outperformed all other products.

DECONTAMINANT AT RECOMMENDED CONCENTRATION	% Activity Remaining After 24 Hours At Room Temperature								TOTAL POINTS	TOTAL RATING
	³ H AMINO ACID MIXTURE		¹⁴ C AMINO ACID MIXTURE		³² P PHOSPHORIC ACID		¹²⁵ I BOVINE SERUM ALBUMIN			
COUNT-OFF™ 2.0% solution	0.13	#1	0.29	#1	<0.01	#1	0.01	#1	4	#1
PRODUCT A 2.5% solution	1.95	#5	7.89	#5	0.06	#5	7.5	#5	20	#5
PRODUCT B 2.0% solution	0.35	#2	2.63	#4	<0.01	#1	0.17	#2	9	#2
PRODUCT C 0.75% solution	0.45	#4	1.96	#3	<0.01	#1	0.30	#4	11	#4
PRODUCT D 2.0% solution	0.48	#3	1.56	#2	<0.01	#1	0.26	#3	10	#3

1 Decontaminant for each isotope – COUNT-OFF

Packard Tricarb 3385, 50-1000 window ³H=50% gain, ¹⁴C=7% gain, ³²P=1% gain, ¹²⁵I=30% gain

COUNT-OFF™ Radioactive Decontaminant

Fast, effective, is the superior radioactivity decontaminant and laboratory cleaner

Liquid Concentrate

For most applications, COUNT-OFF Liquid Concentrate should be diluted to 1:49, COUNT-OFF : warm water. Tests show that residual ¹⁴C, ³H, and ³²P activity on glassware is typically reduced to 0.3% or less of its original level following a 24-hour room temperature soak in 2% COUNT-OFF and rinsing. More stubborn substances, for example, those containing ⁵⁹Fe and ¹³¹I, respond to soaking in a 5% COUNT-OFF concentration for two hours at 50 °C. Faster decontamination can be achieved by simply increasing the COUNT-OFF concentration and raising the solution temperature. Ultrasonic or manual agitation will greatly accelerate the decontamination process.

6NE9422 **1x2.5L**
6NE9427 **4x2.5L**

Store ambient
Shipped ambient

Aerosol Spray Surface Cleaner

- foam traps and confines spills, preventing spreading of contamination
- ideal for hard-to-reach corners
- non-corrosive, safe for all laboratory surfaces

COUNT-OFF™ Spray Surface Cleaner makes quick work of decontaminating small radioactive spills. Foaming action traps and suspends radioactive particles for easy wiping away. COUNT-OFF Spray will effectively remove both ionic and non-polar radioactivity as well as stubborn substances like grease, resins, blood, and wax – even from rough surfaces. Its ability to confine a spill makes COUNT-OFF Surface Cleaner a safety essential. With contamination suspended in foam, further contamination of hands and clothing is less likely.

COUNT-OFF Aerosol Spray Surface Cleaner is perfect for small or difficult-to-reach spots like instrument housings, hood corners, centrifuge cups and heads, and LSC counter mechanisms. It is equally useful in routine decontamination of exposed laboratory surfaces, including benches, shields, and appliances. Non-corrosive COUNT-OFF Surface Cleaner can be used with confidence on glass, metal, wood, painted and plastic laboratory and instrumentation surfaces.

6NE942T **6 x 22oz. (650 mL) cans**

Store ambient
Shipped ambient