

A. Background

RNaseZap® completely removes RNase contamination from glass and plastic surfaces. It contains three different ingredients known to be active against RNase. It effectively removes high levels of RNase contamination that similar products cannot. RNaseZap has been used to remove RNase contamination from reaction vessels. With thorough rinsing, RNaseZap leaves no residues that are inhibitory to enzymatic reactions.

B. Instructions for use

RNaseZap is ready to use

Do not dilute because dilution will reduce its effectiveness. If there is a precipitate (as may happen at low temperatures), shake and/or heat at 37°C to bring the precipitate back into solution.



CAUTION

Always wear gloves while using RNaseZap because prolonged contact with skin may cause irritation. When using the spray bottle attachment, always work in a fume hood as inhalation of aerosol or vapor may cause irritation to lungs and mucous membranes.



CAUTION

Please note that RNaseZap should not be used on corrodible metal surfaces.

For cleaning work surfaces:

Apply RNaseZap directly to surface to be cleaned, wipe thoroughly with paper towel, rinse with water and then dry with clean paper towel.

For cleaning lab apparatus:

Apply RNaseZap liberally to a paper towel and wipe all exposed surfaces of the apparatus thoroughly. Rinse with water and then wipe dry. Some small parts may be cleaned by briefly soaking them in RNaseZap, rinsing them with water and then drying.

For cleaning plastic and glass vessels:

Add or spray enough RNaseZap so that the entire surface of the vessel can be coated with the solution upon swirling, or vortexing in the case of centrifuge and microfuge tubes. After discarding the solution, rinse vessels thoroughly two times with distilled water.

For cleaning pipettors:

Remove shaft from pipettor according to manufacturers instructions. Remove seals and gaskets from the shaft and then soak shaft for one minute in RNaseZap. Rinse the shaft thoroughly with water and then reassemble pipettor.

C. RNaseZap® Specifications

Storage and Stability:

Store RNaseZap at room temperature.

RNaseZap is stable for 6 months from the date received.

Safety:

If contact with eyes occurs, immediately flush with water and call physician. If swallowed, do not induce vomiting. Give plenty of water and contact physician. If inhaled, remove to a well ventilated area. For more information, see the MSDS that follows.

D. RNaseZap® Material Safety Data Sheet

Physical data

Appearance and odor	clear liquid
pH	7-7.4 (by pH paper)
Boiling point	n/a
Specific gravity	1.0 (equal to water)
Solubility in H ₂ O	Completely soluble

Fire and explosion hazard data

Flash point	>212°F
Flammable limits in air	>212°F
Extinguishing media	Contact with combustible material may cause fire. Use media suitable to extinguish surrounding fire such as water, CO ₂ , or foam.
Special fire fighting	Wear self-contained breathing apparatus and protective clothing.
Unusual Fire/explosion hazards	n/a

Health hazard data

Effects of overexposure	Irritating to eyes, respiratory system and skin, readily absorbed into the skin WEAR GLOVES AT ALL TIMES.
Emergency first aid	Wash affected area with copious amounts of water. Irrigate eyes for ≥15 min. See physician, treat symptomatically.

Reactivity data

Incompatibility	Strong oxidizing agents, reducing agents and acids & bases.
Hazardous Decomp. Products	Toxic fumes of CO, CO ₂ .
Hazardous Polymerization	Will not occur.

Spill or leak procedures

If released or spilled	Absorb on sand and place in open container for disposal. Ventilate area & wash spill site.
Waste disposal method	Dispose of according to federal, local and state regulations.

Special protection and precaution information

Respiratory protection	Use NIOSH approved respirator as needed.
Ventilation	Use lab hood as appropriate.
Protective gloves	Neoprene or PVC
Eye protection	Use full eye protection-goggles as a standard precautionary measure.
Handling procedures	Follow routine safe handling procedures.

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