

Material Safety Data Sheet (MSDS)

ProClin® 950 Preservative

Danger!

Keep Out of Reach of Children

For Media Biocide Use Only

Corrosive

Causes Eye Damage and Skin Burns

Can Cause Allergic Skin Reaction

May Be Harmful if Inhaled

May Be Fatal if Swallowed or Absorbed Through the Skin

Do not get in eyes, on skin, on clothing. Wear goggles or face shield and rubber gloves when handling. Avoid breathing vapor or mist. Avoid contamination of food. Do not take internally. Wash thoroughly after handling.

Statement of Practical Treatment

If Swallowed: Dilute the injected product by giving water to drink. Call a physician at once. Never give anything by mouth to an unconscious person.

If Inhaled: Remove immediately to fresh air. If not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately.

If On Skin: FLUSH IMMEDIATELY with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before reuse. Wash affected skin thoroughly with soap and water. Wash thoroughly even if no skin burns are present since they may become apparent only after long contact time following inadequate washing.

If In Eyes: FLUSH IMMEDIATELY with copious amounts of water for at least 15 minutes, with the eyes held open. Get prompt medical attention but FLUSH first.

Note to Physician: This is corrosive material. Probable mucosal damage may contraindicate the use of gastric lavage. It is inadvisable to induce vomiting. Measures against circulatory shock, respiratory depression and convulsions may be needed.

Environmental Hazards

This product is toxic to fish and wildlife. Treated effluent should not be discharged where it will drain into lakes, streams, ponds, or public water. Do not contaminate water by cleaning of equipment or disposal of waste. Apply this product only as specified on this label.

Read storage and disposal information; consult federal, state, or local disposal authorities for approved alternative disposal procedures.

Total Active Microbicide Concentration

9.5%

General Directions for Use

The recommended use level for ProClin 950 is 0.05-0.1% (48-95 ppm of active ingredient) of ProClin 950 as supplied. ProClin 950 preservative should be added as the last ingredient and at the lowest temperature (<45 °C) if possible. Since the components of in vitro diagnostic kits vary considerably and may impact on the effect of preservatives, we urge each manufacturer to confirm the efficacy and stability of ProClin 950.

For maximum preservation, especially of commercial products, we strongly recommend performing the efficacy tests described in Efficacy Tests for ProClin Preservatives (document KVT) prior to using ProClin preservative.

General Deactivation

Absorb spills with spill pillows or inert solids (vermiculite) and transfer contaminated materials to containers for disposal.

Deactivate spill area or equipment with a freshly prepared solution of 5% sodium hypochlorite (household bleach as is) and 3 to 5% solid sodium bicarbonate.

Apply 10 volumes of deactivating solution per estimated volume of residual ProClin 950 to deactivate any remaining active ingredient. Let stand for 30 minutes.

Rinse the spill or equipment with copious amounts of water and drain to chemical sewer (if in accordance with federal, state, and local regulations).

Personnel making up or handling deactivation solutions should wear goggles or face shield, rubber apron and full length butyl rubber or nitrile gloves.

Cleanup of Equipment

Mixing vessels, lines and pumps and other equipment containing residues of ProClin 950 preservative must be deactivated before carrying out maintenance of repair work or using for other services. Drips, spills and exposed wet areas and valves should be cleaned up promptly with deactivation solution.

Cleanup of Spills

To deactivate the surfaces of equipment, swab with deactivation solution, wait 30 minutes and rinse thoroughly with clean water. Soak tools, pails, funnels and lines with deactivation solution for 30 minutes and rinse thoroughly with clean water. To determine the amount of deactivation solution needed for clean up, estimate the volume of ProClin 950 preservative solution remaining in a well drained system of vessels, lines and pumps, and make-up and charge 10 volumes of deactivation solution per volume of preservative solution, wait for 30 minutes and then add more water to provide thorough mixing and contact throughout the equipment. Circulate the mixture through the system for about 30 minutes then drain and rinse with clean water or detergent solution.

Drain to a municipal or chemical sewer if in accordance with federal, state, and local regulations.

Deactivation of Clothing

Contaminated clothing must be deactivated prior to laundering. Soak the clothing with deactivation solution for 30 minutes and then rinse with water. To determine the amount of deactivation solution needed for clean up, estimate the volume of ProClin 950 preservative that may have been spilled on the clothing and make-up and charge 10 volumes of deactivation solution per volume of preservative solution, wait for 30 minutes and then add more water to provide thorough mixing and contact throughout the clothing. Soak for about 30 minutes, then drain and rinse with clean water or detergent solution. Drain to a municipal or chemical sewer if in accordance with federal, state, and local regulations. A commercial laundry should then launder the deactivated clothing, preferably before being worn.

Contaminated leather articles, such as work boots and gloves, should be deactivated and then disposed. Under no circumstances should leather articles be worn after contamination.

Deactivation/Cleanup of Spills

Personnel cleaning up spills should wear appropriate protective clothing. This should include a rubber apron or impervious jacket, impervious full length butyl rubber or nitrile gloves, footwear, chemical splash goggles and optionally a half face piece respirator with organic vapor/ acid gas cartridge and dust/mist prefilter. Spilled material should be diked and absorbed on a spill control pillow or onto an inert solid such as clay or vermiculite. Shovel the absorbent and the soil beneath it to a depth sufficient to remove all preservative into a pail or drum. This material should then be disposed of in accordance with federal, state and local regulations; our recommended method of disposal is incineration. Any residual ProClin 950 preservative remaining on

the spill site should then be treated with deactivation solution. A weight ratio of ten parts deactivation solution to one part ProClin 950 preservative remaining on the spill site should then be treated with deactivation solution. After allowing 30 minutes contact time, rinse the area with copious amounts of water and flush to the sewer if in accordance with federal, state, and local regulations.

NOTE: Do not add deactivation solution to the waste pail.

Material Safety Data Sheets

The material safety data sheet (MSDS) for this product contains pertinent information that you may need to protect your employees and customers against any know health or safety hazards associated with the product. We recommend that you contact your suppliers of other materials recommended for use with ProClin 950 preservative for appropriate health and safety precautions before using them.

Composition

The following chemical contributes to the hazard of this product:

2-Methyl-4-isothiazolin-3-one (2682-20-4)

The following chemicals are listed in accordance with state laws:

Water (7732-18-5)

Patent Information

ProClin 950 preservative is specially formulated by Rohm and Haas Company to provide formulators of personal care products with a formaldehyde-free bactericidal solution. ProClin 950 preservative is effective at very low use levels, is compatible with existing fungicides like parabens and IPBC and is more stable in difficult to preserve high pH formulations. Rohm and Haas is the owner of patent rights, for example, U.S. Patents 4,105,431; 4,396,413 and their equivalents in other countries. The purchase price of this product includes a royalty whereby the purchaser acquires a prepaid license to employ the purchased quantity of ProClin 950 preservative only for the above-specified uses under Rohm and Haas' patent rights. Other uses of ProClin 950 preservative are not licensed through the purchase of this product, and the use of ProClin 950 preservative for other purposes may violate patent rights of Rohm and Haas.