

PM 31 52252-4 P7/10

MINNCARE® COLD STERILANT

Master Label

For use in RO membranes and their associated distribution systems.
Also for the sterilization and disinfection of hard surfaces.

For use in the following g locations;

Industrial Laboratory
Pharmaceutical Manufactures
Medical Products Manufacturers
Electrical Utility Companies

Universities Laboratory
Semi Conductor Manufactures
Cosmetic Manufacturers
Bio Tech Companies

Read Minncare® label and application notes before using this product.

This product must be diluted with Purified Water prior to use.

Active Ingredients

Hydrogen Peroxide 20.00%
Peroxyacetic Acid 4.0%

Inert Ingredients 76.0%

Total 100.0%

Net Contents: 1 U.S. quart (0.946 liters)

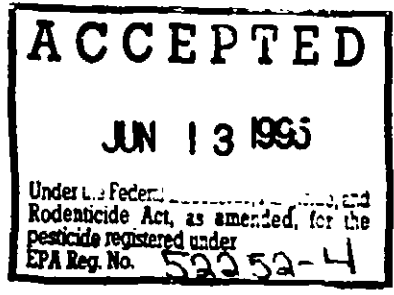
KEEP OUT OF REACH OF CHILDREN

DANGER

See side panel for additional precautionary statements.

EPA Reg. No.: 52252-4

EPA Est. No.: 52252-MN-01



(Minntech logo) **MINNTECH CORPORATION**

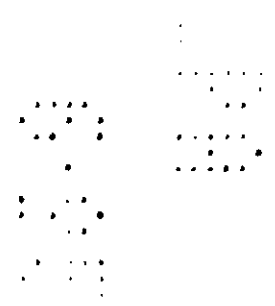
Minntech Corporation
14605 28th Avenue North
Minneapolis, Minnesota 55447 U.S.A.
Telephone (612) 553-3300
(800) 328-3345
Telex 29-0825 RSIMPLS PLOH
Fax (612) 553-3387

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PRODUCT EFFICACY

- Sterilant 100X dilution, 11 hours 20°C
- Sporicidal 100X dilution, 11 hours 20°C
- Bactericidal 100X dilution, 11 hours 20°C
- Virucidal 100X dilution, 11 hours 20°C
 - Hepatitis B 100X dilution, 11 hours 20°C
 - HIV-1* 100X dilution, 11 hours 20°C
- Fungicidal 100X dilution, 11 hours 20°C
- Effective against non-tuberculous mycobacterium (*chelonaë abscessus*)
 - 100X dilution, 10 min., 20°C
 - 32X dilution, 10 min., 20°C
- Cleaner/Sanitizer (non-food contact surfaces)
- Hospital Disinfectant 100X dilution, 10 min., 20°C
 - Pseudomonacidal
- Broad Spectrum Disinfectant 100X dilution, 10 min., 20°C
- Germicidal Spray Disinfectant 100X dilution, 10 min., 20°C
- RO Membrane Disinfectant 100X dilution, 10 min., 20°C

"This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to preclean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.



- **KILLS HIV-1 ON PRE-CLEANED ENVIRONMENTAL SURFACES/ OBJECTS PREVIOUSLY SOILED WITH BLOOD/BLOODY FLUIDS** in health care settings or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with blood or body fluids, and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of human immunodeficiency virus Type 1 (HIV-1) (associated with AIDS).

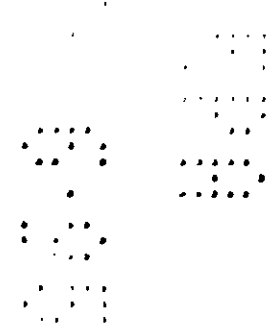
SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV OF SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS:

PERSONAL PROTECTION: Specific barrier protection items to be used when handling items soiled with blood or body fluids are disposable latex gloves, gowns, masks, or eye coverings.

CLEANING PROCEDURE: Blood and other body fluids must be thoroughly cleaned from surfaces and objects before application of the sterilant.

DISPOSAL OF INFECTIOUS MATERIALS: Blood and other body fluids should be autoclaved and disposed of according to federal, state and local regulations for infectious waste disposal.

CONTACT TIME: Leave surfaces wet for 11 hours.



PRECAUTIONARY STATEMENTS

Hazard to Humans and Domestic Animals.

Corrosive. Can cause eye damage and skin irritation. Do not get in eyes, on skin or on clothing. Wear safety glasses and rubber gloves when handling. Wash thoroughly after handling. Harmful if swallowed.

Statement of Practical Treatment

In contact with eyes, immediately flush with large amounts of water for at least fifteen (15) minutes. For eyes, get prompt medical attention.

If swallowed, drink large amounts of water immediately to dilute. Do not attempt to induce vomiting. Call physician immediately.

Note to Physician: Probable mucosal damage may contraindicate gastric lavage.

For chemical emergency, spill, leak, fire, exposure or accident, call CHEMTREC, day or night, 800-424-9300. In District of Columbia and outside continental U.S.A., call 202-483-7616.

DIRECTIONS FOR USE

1. It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.
2. DO NOT USE AFTER EXPIRATION DATE.
3. Do not allow Minncare® to mix with alkaline substances such as bleach (Sodium hypochlorite).
4. If spilled, flush away with large quantities of water.
5. Use purified water when diluting Minncare®.
6. Once diluted, solution must be used within seven (7) days.
7. Minncare® is a single-use product not intended for reuse.

Directions for Sterilization

1. Remove any obvious debris or organic material from the surface to be sterilized. This can often be accomplished by rinsing with purified water, mechanical action, or by detergent cleaning followed by a water rinse.
2. Dilute Minncare® 100X (1 part Minncare® plus 99 parts purified water). Once diluted, the solution must be used within seven (7) days.
3. Immerse the item to be sterilized in a sufficient volume of diluted Minncare® Cold Sterilant to cover the item and fill all passages requiring sterilization. Hold in the sterilizing solution for a minimum of 11 hours at 20°C (68°F).
4. Remove items after 11 hours and rinse with sterile water until effluent testing shows acceptable levels when tested with Minncare® Residual Test Strips.

Directions for Hospital Disinfection

1. Remove any obvious debris or organic material from the surface to be disinfected. This can often be accomplished by rinsing with purified water, mechanical action or by detergent cleaning followed by a water rinse.
2. Dilute Minncare® 100X (1 part Minncare® plus 99 parts water). Once diluted, the solution must be used within seven (7) days.
3. Immerse the item to be disinfected in sufficient volume of diluted Minncare® Cold Sterilant to cover the item and fill all passages requiring disinfecting. Hold in the disinfecting solution for a minimum of 10 minutes.
4. Remove items after 10 minutes and rinse with sterile water until effluent shows acceptable levels when tested with Minncare® Residual Test Strips.

Directions for Disinfection of RO Membranes

READ REVERSE OSMOSIS MEMBRANE DISINFECTION APPLICATION NOTE prior to use.

Minncare® Cold Sterilant is recommended for the decontamination of reverse osmosis membranes and their associated distribution systems. Due to the configuration of various water systems, insufficient contact with Minncare® Cold Sterilant may result in the lack of total elimination of all vegetative microorganisms. The possibility of recontamination by the incoming water supply may also exist. Minncare® should be used in a disinfection program which includes bacteriological monitoring of the entire RO water system. Read Minncare® RO Membrane Application Note prior to use in RO water systems.

The RO manufacturer should be consulted prior to use of Minncare® Cold Sterilant to determine compatibility of the specific membranes.

Directions for Use as a Germicidal Spray

1. Dilute 100X with purified water. Note: Once diluted, the solution must be used within seven (7) days. Discard any unused diluted solution.
2. Spray onto surface using a plastic spray bottle.
3. Allow to remain on surface for 10 minutes.
4. Let air dry or rinse with purified water. Drain off excess water, if possible, and allow to dry.

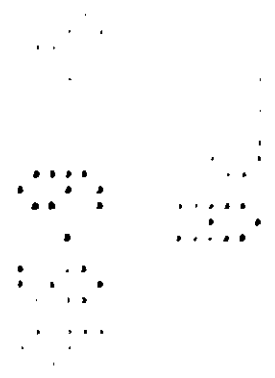
**Directions for Use as a Cleaner/Sanitizer
(Nonfood Contact Surfaces)**

1. Using water or mechanical action, remove heavy soil or gross filth from hard surfaces such as Formica, stainless steel or plastic.
2. Dilute 32X with purified water. Note: Once diluted, the solution must be used within seven (7) days. Discard any unused diluted solution.
3. Apply to surface or immerse items to be sanitized in the solution. Allow 10 minutes of contact time. Rinse with purified water, drain excess, if possible, and allow to air dry.
4. Product may be applied by cloth, mop, or sponge.

USES

Primarily intended for sterilization or disinfection of:

- Reverse Osmosis Membranes and Associated Distribution Systems
- Plastic Items
- Stainless Steel Objects
- Hard Surfaces
- Floors
- Walls
- Bathroom fixtures
- Vinyl surfaces
- Formica surfaces
- Glass



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STORAGE AND DISPOSAL

Storage

1. Store in shipping carton.
2. Do not expose to direct sunlight.
3. Maintain temperature below 75°F (24°C).
4. Avoid contact with combustible materials.
5. Avoid contamination from any source, including metals, dust, etc. Such contamination may cause rapid decomposition, generation of large quantities of oxygen gas and high pressures.
6. Store in original closed container. **NEVER TAMPER WITH VENT.**

Pesticide Disposal

Do not contaminate water, food or feed by storage or disposal.

Wastes resulting from the use of this product may be disposed of on-site by diluting in a sanitary sewer or at an approved disposal facility.

Container Disposal

Triple rinse empty container with water, then offer for recycling or reconditioning; or puncture and dispose of in a sanitary landfill; incinerate; or if allowed by state and local authorities, dispose of by burning. If burned, stay clear of the smoke.

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APPLICATION NOTE

For Reverse Osmosis Membrane Disinfection

Minnicare® Disinfecting Solution may be used for reverse osmosis (RO) systems which are compatible with diluted hydrogen peroxide solutions. The Minncare® Disinfecting Solution has a shelf life of one year. Minncare® should not be stored at its 1% use dilution since this will compromise its effective concentration.

The RO manufacturer should be consulted prior to use of Minncare® Disinfecting Solution to determine the temperature and pH range acceptable for the particular membranes. At a 100X dilution (1% concentration), the pH range for Minncare® is 3.0-3.5.

RO water systems vary in design according to the particular needs of the user. Because of the variation in materials of construction at different facilities, some systems may have components of pumps, gaskets, etc. that are not compatible with long term exposure to Minncare®. Minncare®, is to a degree, corrosive to copper, brass, iron and certain other metals. Minncare® has also exhibited a decreased resistance to latex and Buna-N with extended exposure. Minncare® Disinfecting Solution has been found compatible with typical system materials such as stainless steel. It is also compatible with polypropylene, high density polyethylene, polysulfone, Teflon polycarbonate, neoprene, ABS, nylon, acrylic silicone, plexiglass, ethylene propylene, VITON, and FLUOREL.

Because of the individuality of each RO water system in design and construction, as well as the quality of raw feed water, all RO water systems do not contain the same components. Dependent upon your particular system, all or portions of the following procedure may be used for disinfection.

- 1. Biological or organic fouling of the membrane or other parts of the system should be removed with an appropriate cleaner. It is important to follow the membrane manufacturer's recommended cleaning procedure. After cleaning, flush the system with RO permeate.**
- 2. Mineral deposits should be removed with an acidic cleaner prior to disinfection of the membrane. Again, follow the membrane manufacturer's recommended cleaning procedure. Then, flush the unit with RO permeate. The presence of iron or other transition metals, in conjunction with the hydrogen peroxide in Minncare®, could cause membrane degradation.**
- 3. Prepare a 1% solution (1 part Minncare® to 99 parts water) of Minncare® by adding the Minncare® solution to permeate water. Fill the entire water circuit to be disinfected with a 1% solution and allow the diluted solution to reach a minimum temperature of 20°C (68°F). Do not exceed the membrane manufacturer's recommended temperature.**

4. Recirculate the 1% Minncare[®] solution until the entire system is filled.
5. Allow the elements to soak in the 1% Minncare[®] solution for a minimum of 10 minutes at 20°C (68°F).
6. Rinse the RO system and check for residuals by following the directions on the Minncare[®] Residual Test Strips label. The residual test strip should indicate less than 2 ppm. Rinse times will vary depending on the size of the RO system. Residual disinfectant that may enter the system because of chemical rebound can be eliminated by diverting product water to drain for a short period of time.
7. It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.
8. Refer to package insert for complete precautionary statements and Directions for Use.