

Section 1. Product and Company Identification

Identification:

Product Name: MINNCARE® COLD STERILANT (EPA Reg. No. 52252-4)

MINNCARE® Liquid Disinfectant (as sold in Canada)
DIN 02277484

Company Identification: Minntech Corporation
14605 28th Avenue North
Minneapolis, MN 55447
1-800-328-3340
(763) 553-3300

Emergency Telephone Number: CHEMTREC 1-800-424-9300, or (703) 527-3887

Section 2. Composition / Information on Ingredients

| Component | CAS # | Amount (percentage by Weight) | PEL |
|-------------------|-----------|-------------------------------|--------|
| Hydrogen Peroxide | 7722-84-1 | 22.0% | 1 ppm |
| Peracetic Acid | 79-21-0 | 4.5% | NE |
| Acetic Acid | 64-19-7 | - | 10 ppm |
| Water | 7732-18-5 | - | NE |

PEL(s) represent the OSHA 29 CFR 1910.1000 the eight hour time weighted average (TWA) for Hydrogen Peroxide and Acetic Acid.

NE = None Established

Section 3. Hazards Identification

Appearance: Clear
Physical State: Liquid
Odor: Acid
Hazards of Product: Corrosive and an Oxidizer

Potential Health Effects

Inhalation: Effect from inhalation of mist will vary from mild irritation to serious damage of the upper respiratory tract, depending on severity of exposure. Symptoms may include sneezing, sore throat or runny nose.

Ingestion: Swallowing may cause severe burns of mouth, throat, and stomach. Severe scarring of tissue may result. Symptoms may include bleeding, vomiting, diarrhea, fall in blood pressure.

Skin Contact: Contact with skin can cause irritation or severe burns.

Eye Contact: Causes irritation of eyes, and with greater exposures it can cause burns that may result in permanent impairment of vision.

Section 4. First Aid Measures

Eyes and Skin: Flush with large amounts of water for at least 15-20 minutes. Remove contact lenses, if present, after the first five (5) minutes and then continue rinsing. If burn or irritation has occurred, seek medical attention. If clothing is contaminated, remove clothing, wash skin and wash clothing before reusing.

Ingestion: If swallowed, sip a glass of water if able to swallow. Do not attempt to induce vomiting.

Inhalation: If inhaled, move to fresh air.

Section 5. Fire Fighting Measures

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| Flash Point: | N/A |
| Flammable Limits: | N/A |
| Extinguishing Media: | Water, Foam CO ₂ , Dry Chemicals |
| Unusual Fire and Explosion Hazards: | N/A |

Section 6. Accidental Release Measures

Put on eye protection, protective gloves, boots, clothing and a respirator if air contamination is above the permitted levels. Contain the spill and neutralize with sodium bicarbonate or sodium carbonate. If allowed by federal, state or local regulatory authority, flush spill to the sewer. If mops, towels, paper towel or similar material is used, insure that these items are thoroughly rinsed with copious amounts of water. Do not reuse the liquid material.

Section 7. Handling and Storage

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|--------------------------|---|
| General Handling: | Keep container closed, but vented when not in use. Store in a cool, dry area (below 75°F). Store unused product in original closed container. Once the product has been removed, do not return to the original container. |
| Ventilation: | Local Exhaust |

Section 8. Exposure Controls / Personal Protection

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| Eyewear: | ANSI approved safety glasses or goggles. A face shield should be worn when splashes are likely. |
| Gloves: | Protective gloves should be worn. |
| Clothing: | A protective apron should be worn when splashes are likely. Rubber boots should be used for spill response. |
| Respirator: | If air contamination is above the permitted levels, use an NIOSH approved respirator. |

Section 9. Physical and Chemical Properties

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|---|-----------|
| Physical State: | Liquid |
| Appearance: | Clear |
| pH (as a concentrate): | 0.5 – 1.1 |
| Solubility in Water (by weight): | Complete |
| Odor: | Acid |
| Molecular Weight: | ND |
| Boiling Point (760 mmHg): | ND |
| Freezing Point: | ND |
| Specific Gravity (H₂O = 1): | 1.13 |
| Vapor Pressure at 20°C: | ND |
| Vapor Density (air = 1): | ND |
| Evaporation Rate (Butyl Acetate=1): | ND |
| Melting Point: | ND |

Section 10. Stability and Reactivity

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| Conditions to Avoid: | Hot storage |
| Incompatible Materials: | Metals including iron, copper, copper alloys, brass and aluminum, salts, flammable organics, alkalis, caustics, chlorine and formaldehyde. |
| Hazardous Polymerization: | Will not occur. |
| Hazardous Decomposition: | Do not mix chlorinated products as this could liberate toxic corrosive chlorine gas. |

Section 11. Toxicological Information

Minnicare[®] as a product. LD₅₀ for inhalation is < 13,439 mg/m³. LD₅₀ for oral ingestion is 2.10 g/kg.

Cancer Related Information:

| Ingredient | CAS # | NTP | IARC | OSHA |
|-------------------|-----------|---------------------------|------|------|
| Hydrogen Peroxide | 7722-84-1 | Known: No Anticipated: No | None | NO |
| Peracetic Acid | 79-21-0 | Known: No Anticipated: No | None | NO |
| Acetic Acid | 64-19-7 | Known: No Anticipated: No | None | NO |
| Water | 7732-18-5 | Known: No Anticipated: No | None | NO |

Section 12. Ecological Information

Environmental Fate: No information found.

Environmental Toxicity: This product is toxic to birds, fish and aquatic invertebrates

Section 13. Disposal Considerations

Dispose of this product in accordance with all applicable, Federal, State and Local regulations.

Section 14. Transport Information

NON-Bulk

Proper Shipping Name: Hydrogen Peroxide and Peroxyacetic Acid Mixtures, Stabilized

Hazard Class: Oxidizer (5.1) and Corrosive (8)

UN Number: 3149

Packing Group: II

Section 15. Regulatory Information

International Inventory Status:

| Ingredient | CAS # | EC | Japan | Australia | Korea | Canada: DSL | Canada: NDSL |
|-------------------|-----------|-----|-------|-----------|-------|-------------|--------------|
| Hydrogen Peroxide | 7722-84-1 | YES | YES | YES | YES | YES | NO |
| Peracetic Acid | 79-21-0 | YES | YES | YES | YES | YES | NO |
| Acetic Acid | 64-19-7 | YES | YES | YES | YES | YES | NO |
| Water | 7732-18-5 | YES | YES | YES | YES | YES | NO |

United States:

| Ingredient | CAS # | OSHA | CAA | CWA | RCRA | SARA 302 | SARA 313 | TSCA |
|-------------------|-----------|------|-----|-----|------|----------|----------|------|
| Hydrogen Peroxide | 7722-84-1 | YES | NO | NO | NO | NO | NO | NO |
| Peracetic Acid | 79-21-0 | YES | YES | NO | NO | YES | YES | NO |
| Acetic Acid | 64-19-7 | YES | NO | YES | NO | NO | NO | NO |
| Water | 7732-18-5 | YES | NO | NO | NO | NO | NO | NO |

CA Proposition 65: This product is not affected by CA Proposition 65.

WHMIS (Canada): This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

Section 16. Other Information

NFPA Ratings:

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| Flammability: | 0 |
| Health: | 2 |
| Reactivity: | 1 |
| Specific Hazard: | Corrosive |

HMIS Ratings:

| | |
|---------------|---|
| Flammability: | 0 |
| Health: | 2 |
| Reactivity: | 1 |
| PPE: | B |

| | |
|-------------------|--------------|
| Origination Date: | 1/10/90 |
| Revision Date: | 11-17-06 |
| Prepared by: | Risk Manager |