

Section 1. Product and Company Identification

Identification:

Product Name: RENALIN® 100 COLD STERILANT

Company Identification: Minntech Corp
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	20.0%	1 ppm
Peracetic Acid	79-21-0	4.0%	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.

Section 3. Hazards Identification

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

Potential Health Effects

Inhalation: Effects from inhalation of mist 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 minutes. 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, drink large amounts of water. Do not attempt to induce vomiting.

Inhalation: If inhaled, move to fresh air.

Section 5. Fire Fighting Measures

Flash Point:	N/A
Flammable Limits:	N/A
Extinguishing Media:	Water, Foam CO2, Dry Chemicals
Unusual Fire and Explosion Hazards:	NA

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

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

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

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):	1.1
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

Conditions to Avoid:	Hot storage, contact with combustible materials.
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

Renalin[®] 100 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 Numbers	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 Numbers	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 Numbers	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 the CPR.

Section 16. Other Information

NFPA Ratings:

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

HMIS Ratings:

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

Origination Date: 12/22/00
Revision Date: 07-20-06
Prepared By: Risk Manager