

Section 1. Product and Company Identification

Identification:

Product Name: Hemodialysis Acid Concentrate
SB – 1000 Series – Renasol® Acid Concentrate
SB - 100 Series – Centrisol® Acid Concentrate
SB – 300 Series - Centrisol® Acid Concentrate

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
Sodium Chloride	7647-14-5		NE
Dextrose	50-99-7		NE
Calcium Chloride	10043-52-4		NE
Potassium Chloride	7447-40-7		NE
Magnesium Chloride	7786-30-3		NE
Acetic Acid	64-19-7		10
Water	7732-18-5		NE

The amount (percentage by weight) is specific to the SB product
NE: None Established

Section 3. Hazards Identification

Appearance: Clear
Physical State: Liquid
Odor: Vinegar
Hazards of Product: Corrosive

Potential Health Effects

Inhalation: Effects from inhalation may cause mild irritation to the upper respiratory tract. Symptoms may include sneezing, sore throat or runny nose.
Ingestion: Swallowing may cause burns of mouth, throat, and stomach. Symptoms may include bleeding, vomiting, or diarrhea.
Skin Contact: Contact with skin can cause irritation.
Eye Contact: Causes irritation of eyes.

Section 4. First Aid Measures

Eyes and Skin: Flush with excess water 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:	N/A
Unusual Fire and Explosion Hazards:	Does not support combustion

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. 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 when not in use. Store in a dry area between 40-90° F. Store unused product in original closed container. Once the product has been removed, do not return to the original container.

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 a NIOSH approved respirator.

Section 9. Physical And Chemical Properties

Physical State:	Liquid
Appearance:	Clear
pH (as a concentrate):	2-3
Solubility in Water (By Weight):	Complete
Odor:	Vinegar like
Molecular Weight:	ND
Boiling Point (760 mmHg):	ND
Freezing Point:	ND
Specific Gravity (H₂O = 1):	1.2
Vapor Pressure at 20° C:	ND
Vapor Density (air = 1):	1
Evaporation Rate (Butyl Acetate = 1):	ND
Melting Point:	ND

Section 10. Stability and Reactivity

Conditions to Avoid: None Known
Incompatible Materials: Bases and corrosive to metals.
Hazardous Polymerization: Will not occur.
Hazardous Decomposition: Will not occur.

Section 11. Toxicological Information

Hemodialysis Acid Concentrate as a product was tested and determined not to be toxic to humans.

Cancer Related Information:

Ingredient	CAS Numbers	NTP	IARC	OSHA
Sodium Chloride	7647-14-5	Known: NO Anticipated: NO	None	NO
Dextrose	50-99-7	Known: NO Anticipated: NO	None	NO
Calcium Chloride	10043-52-4	Known: NO Anticipated: NO	None	NO
Potassium Chloride	7447-40-7	Known: NO Anticipated: NO	None	NO
Magnesium Chloride	7786-30-3	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: No information found

Section 13. Disposal Considerations

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

Section 14. Transport Information

This product is not defined as a hazardous material in accordance with the Department of Transportation.

Section 15. Regulatory Information

International Inventory Status:

Ingredient	CAS Numbers	EC	Japan	Australia	Korea	Canada: DSL	Canada: NDSL
Sodium Chloride	7647-14-5	YES	YES	YES	YES	YES	NO
Dextrose	50-99-7	YES	YES	YES	YES	YES	NO
Calcium Chloride	10043-52-4	YES	YES	YES	YES	YES	NO
Potassium Chloride	7447-40-7	YES	YES	YES	YES	YES	NO
Magnesium Chloride	7786-30-3	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
Sodium Chloride	7647-14-5	NO	NO	NO	NO	NO	NO	NO
Dextrose	50-99-7	NO	NO	NO	NO	NO	NO	NO
Calcium Chloride	10043-52-4	NO	NO	NO	NO	NO	NO	NO
Potassium Chloride	7447-40-7	NO	NO	NO	NO	NO	NO	NO
Magnesium Chloride	7786-30-3	NO	NO	NO	NO	NO	NO	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: 0
Specific Hazard: Corrosive

HMIS Ratings:

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

Origination Date: 4/11/97
Revision Date: 3/3/10
Prepared By: Corporate Director of Risk Management