## Section 1. Product and Company Identification

***Identification:***

Product Name: Hemodialysis Acid Concentrate
SB – 1000 Series – Renasol® Acid Concentrate
SB - 100 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 40-90F. 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 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:** 7/15/03
**Prepared By:** Senior EHS Specialist