

### Section 1. Product and Company Identification

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Product Name: Dri-Sate<sup>®</sup> DC, DR and DF Series  
Dry Acid Concentrate for Hemodialysis  
45X, 36.83X and 35X Dilution

Company Identification: Rockwell Medical  
30142 Wixom Rd  
Wixom, MI. 48393  
800-449-3353  
248-960-9009

### Section 2. Hazards Identification

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Appearance: White  
Physical State: Powder  
Odor: None  
Hazards of Product: Non-hazardous

#### Potential Health Hazards

Symptoms of Exposure: No Information Available  
Medical Condition Aggravated by Exposure: None Identified  
Routes of Entry: Inhalation, Ingestion  
Flammability Classification: Noncombustible

### Section 3. Composition/Information on Ingredients

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Component	CAS#	Approx. W/V%
Water	7732-18-5	75 – 80
Sodium Chloride	7647-14-5	17
Potassium Chloride	7447-40-7	0 – 0.5
Calcium Chloride	10043-52-4	0 – 0.5
Magnesium Chloride	7786-30-3	0.1
Dextrose	50-99-7	0 – 7
Acetic Acid	64-19-7	0.8

### Section 4. First Aid Measures

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Eyes: Flush with plenty of water for a minimum of 15 minutes while holding the eyelids open.  
Seek medical attention.  
Skin: Wash with soap and water. Get medical attention if irritation develops or persists  
Ingestion: Non-hazardous  
Inhalation: Non-hazardous

### Section 5. Fire Fighting Measures

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Flashpoint:	Not Combustible
Fire-Fighting Instructions:	Not Combustible
Unusual Fire and Explosion Hazards:	None Known

### Section 6. Accidental Release Measures

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Spills: Sweep up powder or flush area with water. Wear appropriate protective clothing and equipment during clean up. Dispose of in accordance with Local, State and Federal regulations.

### Section 7. Handling and Storage

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Smoking, eating or drinking in work areas is not recommended. Store in a manner to avoid mix-up or exposure to contaminants. Do not use if the container is breached or damaged.

### Section 8. Exposure Controls/Personal Protection

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Eyewear:	Not required but recommended.
Gloves:	Not required but recommended.
Clothing:	Not required

### Section 9. Physical and Chemical Properties

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Physical state:	Powder
Appearance:	White
pH:	N/A
Solubility in Water:	Complete
Odor:	None

### Section 10. Stability and Reactivity

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Stability:	Stable
Conditions to Avoid:	None known
Incompatible Materials:	None known
Hazardous Polymerization:	Not applicable

### Section 11. Toxicological Information

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Toxicological data is not applicable. The material is not a known or potential carcinogen.

## Section 12. Ecological

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Environmental impact data is not applicable.

## Section 13. Disposal Consideration

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Refer to Section 8 (Exposure Controls/Personal Protection). Refer to local and state guidelines for proper disposal of unused product. Disposal in storm drains is discouraged.

## Section 14. Transport Information

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Not applicable.

## Section 15. Regulatory Status

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Status:	Not regulated
D.O.T. Hazard Class:	None
OSHA:	Not hazardous under 29 CFR 1910.1200
SARA Title III:	Section 302 Extremely Hazardous Substance List: Not Listed Section 313 Toxic Chemical: Not Listed

## Section 16. Other Information

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HMIS Ratings:

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

SDS: Acetic Acid Component, Dri-Sate® DC, DR and DF-Series

**Section 1. Product and Company Identification**

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Product Name: Acetic Acid Component for Dri-Sate® DC, DR and DF Series

Company Identification: Rockwell Medical  
30142 Wixom Rd  
Wixom, MI. 48393  
800-449-3353  
248-960-9009

**Section 2. Hazards Identification**

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Appearance: Clear  
Physical State: Liquid  
Odor: Highly pungent vinegar aroma  
Hazards of Product: Corrosive

**Potential Health Hazards**

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.

OSHA: Permissible Exposure Limit (PEL) for General Industry: 29 CFR 1910.1000 Z-1 Table-10 ppm, 25mg/m<sup>3</sup>, 8 hrs.

**Section 3. Composition/Information on Ingredients**

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Component	CAS#	Approx. %
Acetic Acid	64-19-7	100

**Section 4. First Aid Measures**

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Eyes and Skin: Flush with excess water at least 15 minutes. If burn or irritation has occurred, see 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

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Flashpoint:	193°F
Flammable Limits:	Upper – 16% Lower – 4%
Fire-Fighting Instructions:	Use carbon dioxide or dry chemical for small fires; alcohol – type aqueous film forming or water spray for large fires.
Unusual Fire and Explosion Hazards:	Vapors are potentially explosive, avoid ignition sources and reduce vapors by water spray in case of accidental releases.

### Section 6. Accidental Release Measures

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Put on eye protection, protective gloves, boots, clothing and a respirator if air contamination is above the permitted levels. Contain the spill and reduce vapors by using water spray. 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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Smoking, eating or drinking in work areas is not recommended. Store in a manner to avoid mix-up or exposure to contaminants. Do not use if the container is breached or damaged.

### 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 a NIOSH approved respirator

### Section 9. Physical and Chemical Properties

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Physical state:	Liquid
Appearance:	Clear
pH:	Approximately 1
Solubility in Water:	Complete
Odor:	Acid

### Section 10. Stability and Reactivity

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Conditions to Avoid:	Open flame source
Incompatible Materials:	Oxidizing agents (hydrogen peroxide, nitric acid, perchloric acid or chromium trioxide), strong alkalis (sodium hydroxide) or metals.
Hazardous Polymerization:	Will not occur
Hazardous Decomposition:	If burned, will produce carbon dioxide.

### Section 11. Toxicological Information

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Toxicological data is not applicable. The material is not a known or potential carcinogen.

### Section 12. Ecological

---

Environmental impact data is not applicable.

### Section 13. Disposal Consideration

---

Refer to Section 8 (Exposure Controls/Personal Protection). Refer to local and state guidelines for proper disposal of unused product. Disposal in storm drains is discouraged.

### Section 14. Transport Information

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Not applicable.

### Section 15. Regulatory Status

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Transportation Status:	Hazardous Material
D.O.T. Hazard Class:	8-UN 2789-II
OSHA:	Not hazardous under 29 CFR 1910.1200
SARA Title III:	Section 302 Extremely Hazardous Substance List: Not Listed Section 313 Toxic Chemical: Not Listed

### Section 16. Other Information

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HMIS Ratings:  
Flammability: 2  
Health: 2  
Reactivity: 1  
PPE: B