

MSDS: Dry Acid Concentrate, Dri-Sate® DC, DR and DF-Series

Section 1. Product and Company Identification

Product Name: Hemodialysis Dry Acid Concentrate Component
Dri-Sate® Dry Acid DC-Series, DR-Series, and DF-Series

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

Section 2. Composition/Information on Ingredients

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 3. Hazards Identification

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 4. First Aid Measures

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

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

Section 6. Accidental Release Measures

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. Personal Protection

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

Section 8. Physical and Chemical Properties

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

Section 9. Reactivity

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

Section 10. Regulatory Status

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
RCRA: Not a hazardous material by listing or characteristic

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

Section 1. Product and Company Identification

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

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

Section 2. Composition/Information on Ingredients

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

Section 3. Hazards Identification

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/m³, 8 hrs.

Section 4. First Aid Measures

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

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

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. 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 8. Physical and Chemical Properties

Physical state: Liquid

Appearance: Clear

pH: Approximately 1

Solubility in Water: Complete

Odor: Acid

Section 9. Reactivity

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 10. Regulatory Status

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

RCRA: Not a hazardous material by listing or characteristic
