# CITRASATE CONCENTRATE MATERIAL SAFETY DATA SHEET

Advanced Renal Technologies 40 Lake Bellevue, Suite 100 Bellevue, WA 98005 Phone: (425) 453-8777 Page 1MSDS Number:D001Revision Date:12/01/00Revision No.:001

### **Generic Product Identification**

Product Name: Synonyms: Chemicals present: Chemical Families: CITRASATE CONCENTRATE Dialysate concentrate for bicarbonate dialysis See components below Inorganic salts, sugar and organic acid

#### Hazard Overview

Fire hazard:Material is not flammable.Health hazard:May irritate eyes, nose and throat. May be harmful if swallowed.

#### Components

Chemical <u>Formula</u>	Chemical <u>Name</u>	Common <u>Name</u>	<u>CAS #</u>	% by <u>Weight</u>
NaCl	Sodium Chloride	Salt, Sea salt	07647-14-5	70.3
C6H12O6	Dextrose	Sugar	00050-99-7	24.0
CaCl2 2H2O	Calcium Chloride	NA	10035-04-8	1.7*
MgCI12 6H2O`	Magnesium Chloride	NA	0779-18-6	1.8
KCI	Potassium Chloride	Muriate of potash	07447-40-7	0.0*
C6H8O7	Citric Acid	NA	00077-92-9	1.9
NaC2H3O2 3H2O	Sodium Acetate	Acetic acid	06131-90-4	0.3

\*Calcium Chloride will vary by formula from 1.7% to 2.0%, Potassium Chloride will vary by formula from 0.0% to 1.8%.

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Physical Data			
Boiling Point:	1413°C (for Sodium Chloride)		
Melting Point:	146°C (for Dextrose)		
<u>Solubility</u> :	All component chemicals are soluble in water.		
Appearance and Odor:	White crystalline powder or granules. No odor.		

# Fire and Explosion Data

NA Flash Point:

Auto-ignition Temperature NA

Flammable Limits (% by volume air): Upper: NA Lower: NA

Fire Extinguishing Media:

Material is not flammable. Use water, CO2, dry chemical or foam.

# Special Firefighting Procedures:

Use water to cool nearby containers and structures. Wear full protective equipment including suitable respiratory protection.

Unusual Fire and Explosion Hazards

High dust concentration (of the Dextrose) may ignite in the presence of an ignition source.

Reactivity Data				
Stability: Stable				
Incompatibles:				
Li metal, Bromine trifloride, strong oxidizers, sulfuric acid, strong bases				
Decomposition Products: Chlorine, CO, CO2				

Hazardous Polymerization: Will not occur

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# Reactivity Data (continued)

Conditions to Avoid:

Excessive dusting in presence of ignition source

#### Health Hazard Data

Effects of Exposure and First Aid Procedures

Skin Contact: May irritate with prolonged contact. Wash with soap and water.

Eve Contact: Dust may cause irritation. Flush eyes with water.

<u>Ingestion</u>: Large quantities may cause gastrointestinal irritation, nausea and vomiting. Rinse mouth with water and give victim large amounts of water.

Inhalation: May irritate the nose, throat and upper respiratory tract.

Remove to fresh air.

Carcinogenicity: None identified

NTP Listing

IARC listing

OSHA Regulated

No listing

No listing

Precautions for Safe Handling and Use

#### Spill and Leak Procedures:

Remove all ignition sources. Sweep or scoop into disposal container in a manner that minimizes dust dispersion. Wear suitable protective equipment.

# Disposal Procedures:

Dispose in accordance with all Local, State and Federal regulations.

Storage and Handling:

Store in a cool, dry, well-ventilated area. Hygroscopic material, store in tightly closed containers.

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# **Protective Equipment**

#### Ventilation:

Use adequate general or local exhaust ventilation to keep dust levels as low as possible.

### **Respiratory Protection:**

None needed unless dust is present. Use a dust respirator mask if necessary.

# Eye Protection:

Safety glasses are recommended.

#### Protective Clothing

Not necessary, but skin contact should be avoided.

#### Overall:

Use good chemical handling procedures.

\*\*\* End of MSDS \*\*\*