

Citrasate® Hemodialysis Concentrates

1. Identification of the preparation and of the company

Productname Citratsate® Hemodialysis Concentrate A component
Intended use A-Component for manufacturing of bicarbonate hemodialysis fluid
Hersteller MTN Neubrandenburg GmbH
Gustav-Kirchhoff-Str. 2
17033 Neubrandenburg
**Telephon/
Fax** +49-(0)395-58 100-0/ -99
E-Mail info@mtn-nb.de
**Incase of
emergency** Contact your local emergency response center

1. Hazards identification

Dialysis concentrate is not classified as a dangerous solution for health or environment. Dialysis concentrate may cause irritation when coming in contact with skin, eyes or mucous membranes.

Classification (67/548/EWG oder 1999/45/EG) Xi, R36

3. Composition/Information on ingredients

Constituent	CAS-no.	EG-no.	content	symbols/R- phrases
Citric acid	77-92-9	201-069-1	<0,7 %	Xi, R36
Sodium acetate	6131-90-4	204-823-8	<0,2 %	
Calcium chloride	10035-04-8	233-140-8	<1,0 %	Xi, R36
Magnesium chloride	7791-18-6	232-094-6	<0,5 %	
Glucose	50-99-7	200-075-1	<9,0 %	
Sodium chloride	7647-14-5	231-598-3	<26,3 %	
Potassium chloride	7447-40-7	231-211-8	<0,7 %	

4. First-Aid Measures

Eyes Rinse immediately with large amounts of water for 10-15 minutes. Keep eyes wide open. If irritation remains obtain medical assistance.

Skin Remove contaminated clothing, wash with soap and water. If irritation remains obtain medical assistance

Ingestion Wash mouth with water and drink large amounts of water, do not induce vomiting. Obtain medical assistance.

5. Fire fighting measure

Hemodialysis concentrate is not flammable. Use fire-extinguishing media based on goods stored in surrounding area. Use water to cool nearby containers and structures. Move stored hemodialysis A-component to a safe place.

6. Accidental release measures

Use cleaning method on amount of released liquid. Handle used absorption materials as hazardous waste.

In case of spillages, dilute with water and wash to drain. Avoid large quantities from entering drain undiluted

7. Handhabung und Lagerung

Store dry at normal temperatures (+5 to +30 degrees C).

8. Exposure control and personal protection

Eye protection In case of contact with the active substances, flush with water under an eye shower.

Skin protection Wear protective gloves when in risk of skin contact.

Glove material	Layer thickness:	Penetration time:
Nature latex	0,6 mm	≥ 8 h
Butylrubber	0,7mm	>8 h
polychloroprene	0,5 mm	≥ 8 h

The dates are reference values. Increased temperatures by warmed substances, body heat etc. and a reduction of the layer strength by stretching can lead to a reduction of the penetration time.

This recommendation only applies to the product mentioned in the safety data sheet. In case of dissolving into or mixing with other substances you must consult a supplier of CE approved gloves.

9. Physical and chemical properties

Visual appearance	Colorless liquid
Odor	Smells of citric acide
pH (20°C)	~2
Solubility	In water soluble
Density (g/cm³)	1,2

10. Stability and reactivity

The dissolved salts in hemodialysis concentrate A-component may precipitate at approximately 0°C.

Due to its citric properties the mixing hemodialysis concentrate A-component with sodium hypochlorite (bleach) causes formation of toxic chlorine gas.

11. Toxicological information

Health effects:

Eyes contact splash and aerosol may irritate the eye

Skin after long exposure, may cause irritation to the skin

Ingestion cause gastrointestinal irritation, nausea and vomiting.

Toxicity:

LD50 citric acide (100%)	3.000mg/kg (rat, oral)
LD50 CaCl₂	1.000mg/kg (rat, oral)
LD50 MaCl₂	8.100mg/kg (rat, oral)
LD50 KCl	2.600mg/kg (rat, oral)
LD50 Glucose	25.800mg/kg (rat, oral)
LD50 NaCl	10.000mg/kg (rat oral)
LD50 Sodium acetate (100%)	3.310mg/kg (rat, oral)

12. Ecological information

No ecological problems are expected when properly handled and used.

13. Disposal considerations

Dispose only if utilization is not possible. Small quantities can be discharged to drain (Check national or regional regulations). Large amountsof solution are disposed off as chemical waste.

14. Transport information

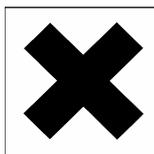
Citratsate® Hemaodialysis Concentrate A-Component for manufacturing of bicarbonate hemodialysis fluid is not classified as a hazardous good.

15. Regulatory information

Citratsate® Hemaodialysis Concentrate A-Component for manufacturing of bicarbonate hemodialysis fluid is not classified as dangerous to health or environment.

In accordance with Regulation
67/548/EEC und 1999/45/EG

Symbol



Xi (Irritant)
36 Irritating to
eyes

R- phrases

16. Other information

The information given in this safety data sheet are based on the present state of the knowledge and serve to describe the product with regard to the correct safety measures. They do not represent any assurance of characteristics of the described product.

CITRASATE® is a registered trademark of Advanced Renal Technologies. European Patent 1124567, 478692 and others applied for.

Dieses Sicherheitsdatenblatt ist entsprechend Verordnung (EG) No. 1272/2008 zusammengestellt.
