

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 Date of issue: 03/02/2017 Revision date: 03/02/2017 Version: 1.0

SECT	ION 1: Identification of the su	bstance/mixture and of the compa	ny/undertaking	
1.1.	Product identifier			
Product Product		<ul> <li>Hemodialysis Acid Concentrate</li> <li>SB – 1000 Series – RENASOL<sup>®</sup> Acid Co SB – 100 Series – CENTRISOL<sup>®</sup> Acid C SB – 300 Series – CENTRISOL<sup>®</sup> Acid C</li> </ul>	oncentrate	
1.2.	Relevant identified uses of the sub	stance or mixture and uses advised again	st	
Use of t	he substance/mixture	: Concentrate formulation to be used in concentrate (hemodialysis) machine.	onjunction with bicarbonate in a c	compatible artificial
1.3.	Details of the supplier of the safety	/ data sheet		
Minnea	ors Inc. 8th Avenue North polis, MN 55447 - USA -328-3340			
1.4.	Emergency telephone number			
Emerge	ncy number	: CHEMTREC 1-800-424-9300 or (703)-5	27-3887	
SECT	ION 2: Hazards identification			
2.1.	Classification of the substance or	mixture		
GHS-U	S classification			
Skin Irri	tation 2			
Eye Irrit	ation 2A			
2.2.	Label elements			
GHS-U	S labelling			
No labelling applicable. This product is exempt from labeling as per OSHA 1910.1200(b)(5)(iii) - Any food, food additive, color additive, drug, cosmetic, or medical or veterinary device or product, including materials intended for use as ingredients in such products (e.g. flavors and fragrances), as such terms are defined in the Federal Food, Drug, and Cosmetic Act (21 U.S.C. 301 et seq.) or the Virus-Serum-Toxin Act of 1913 (21 U.S.C. 151 et seq.), and regulations issued under those Acts, when they are subject to the labeling requirements under those Acts by either the Food and Drug Administration or the Department of Agriculture.				
2.3.	Other hazards			
No addi	tional information available.			
2.4.	Unknown acute toxicity (GHS US)			
Not app	licable.			
SECT	ION 3: Composition/information	on on ingredients		
3.1.	Substance			
Not app	licable.			
3.2.	Mixture			
Name			Product identifier	%
Acetic	acid		(CAS No) 64-19-7	0.5 - 1.5
* The exa	act percentage (concentration) of composition	has been withheld as a trade secret in accordance	with paragraph (i) of §1910.1200.	
SECT	ION 4: First aid measures			
4.1.	Description of first aid measures			
First-aid measures after inhalation       : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.				
First-aid measures after skin contact : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.				

First-aid measures after eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. If irritation persists, get medical attention.

# First-aid measures after ingestion : If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

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4.2. Most important sympt	oms and effects, both acute and delayed			
Symptoms/injuries after inhalatior		ation. Symptoms may include sneezing, sore throat and runny		
Symptoms/injuries after skin cont	act : Causes skin irritation. Symptor of the skin.	ns may include redness, edema, drying, defatting and cracking		
Symptoms/injuries after eye conta		Symptoms may include discomfort or pain, excess blinking and edness and swelling of the conjunctiva.		
Symptoms/injuries after ingestion	: May be harmful if swallowed. N	lay cause stomach distress, nausea or vomiting.		
4.3. Indication of any imm	ediate medical attention and special treatment	needed		
Symptoms may not appear immedi	ately. In case of accident or if you feel unwell, seek m	nedical advice immediately (show the label or SDS where possible).		
SECTION 5: Firefighting	measures			
5.1. Extinguishing media				
Suitable extinguishing media	: Treat for surrounding material.			
Unsuitable extinguishing media	: None known.			
5.2. Special hazards arisin	g from the substance or mixture			
Fire hazard	: Does not support combustion.			
5.3. Advice for firefighters	i			
Protection during firefighting		irefighting turn-out gear (full Bunker gear) and respiratory		
SECTION 6: Accidental re	elease measures			
6.1. Personal precautions,	protective equipment and emergency procedu	ures		
General measures	: Use personal protection recom unnecessary and unprotected	mended in Section 8. Isolate the hazard area and deny entry to personnel.		
6.2. Methods and material	for containment and cleaning up			
For containment		: Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).		
Methods for cleaning up	: Scoop up material and place ir	Scoop up material and place in a disposal container.		
6.3. Reference to other se	ctions			
See section 8 for further informati	on on protective clothing and equipment and sect	on 13 for advice on waste disposal.		
SECTION 7: Handling and	d storage			
7.1. Precautions for safe h				
Precautions for safe handling		Avoid contact with skin and eyes. Avoid breathing vapor or mist. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke.		
Hygiene measures	: Launder contaminated clothing	before reuse. Wash hands before eating, drinking, or smoking.		
7.2. Conditions for safe st	orage, including any incompatibilities			
Storage conditions	: Keep out of the reach of childre	en. Keep container tightly closed.		
7.3. Specific end use(s)				
Not available.				
SECTION 8: <u>Exposure co</u>	ntrols/personal protection			
8.1. Control parameters				
Acetic acid (64-19-7)				
	ACGIH TWA (ppm)	10 ppm		
ACGIH	ACGIH STEL (ppm)	15 ppm		
	OSHA PEL (TWA) (mg/m <sup>3</sup> )	25 mg/m <sup>3</sup>		
	OSHA PEL (TWA) (ppm)	10 ppm		

0.2.	Expo	sure	contr	ois

Appropriate engineering controls

: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

Hand protection

: Wear suitable gloves.

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Eye protection	: Wear eye protection.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Environmental exposure controls	: Maintain levels below Community environmental protection thresholds.
Other information	: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

#### **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and o	• •		
Physical state	: Liquid		
Appearance	: Clear		
Colour	: Colorless		
Odour	: Vinegar		
Odour threshold	: No data available		
рН	: 2-3		
Melting point	: No data available		
Freezing point	: No data available		
Boiling point	: No data available		
Flash point	: > 93 °C (> 199.4 °F)		
Relative evaporation rate (butylacetate=1)	: No data available		
Flammability (solid, gas)	: Not flammable		
Explosive limits	: No data available		
Explosive properties	: No data available		
Oxidising properties	: No data available		
Vapour pressure	: No data available		
Relative density	: 1.2		
Relative vapour density at 20 °C	: No data available		
Solubility	: No data available		
Partition coefficient: n-octanol/water	: No data available		
Log Kow	: No data available		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Viscosity	: No data available		
Viscosity, kinematic	: No data available		
Viscosity, dynamic	: No data available		
9.2. Other information			
No additional information available.			
SECTION 10: Stability and reactivity			
10.1. Reactivity			
No dangerous reaction known under conditions of normal use.			

10.2.	Chemical stability
Stable u	nder normal storage conditions.
10.3.	Possibility of hazardous reactions
No dang	erous reaction known under conditions of normal use.
10.4.	Conditions to avoid
Heat.	
10.5.	Incompatible materials
None kn	own.
10.6.	Hazardous decomposition products

Will not occur.

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11.1. Information on toxicological effects	
Acute toxicity	: Not classified.
Hemodialysis Acid Concentrate	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat	> 20 mg/l/4h
Acetic acid (64-19-7)	
LD50 oral rat	3310 mg/kg
LD50 dermal rabbit	1060 mg/kg
LC50 inhalation rat	11.4 mg/l/4h
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Based on available data, the classification criteria are not met.
Germ cell mutagenicity	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Based on available data, the classification criteria are not met.
Reproductive toxicity	: Based on available data, the classification criteria are not met.
Specific target organ toxicity (single exposure)	: Based on available data, the classification criteria are not met.
Specific target organ toxicity (repeated exposure)	: Based on available data, the classification criteria are not met.
Aspiration hazard	: Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	: May cause respiratory tract irritation.
Symptoms/injuries after skin contact	: Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
Symptoms/injuries after eye contact	: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Symptoms/injuries after ingestion	: May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

#### **SECTION 12: Ecological information**

12.1.	Toxicity	
Ecology	- general :	May cause long-term adverse effects in the aquatic environment.
12.2.	Persistence and degradability	
Hemod	dialysis Acid Concentrate	
Persist	ence and degradability	Not established.
12.3.	Bioaccumulative potential	
Hemo	dialysis Acid Concentrate	
Bioacc	umulative potential	Not established.
12.4.	Mobility in soil	
No addit	ional information available.	
12.5.	Other adverse effects	
Effect or	the global warming :	No known ecological damage caused by this product.
SECTI	ON 12. Disposal considerations	

SECTIC	SECTION 13: Disposal considerations				
13.1.	Waste treatment methods				
Waste dis	posal recommendations		This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.		

#### **SECTION 14: Transport information**

#### **Department of Transportation (DOT)** In accordance with DOT

Not regulated for transport.

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# Additional information · Other information : No supplementary information available. Special transport precautions : Do not handle until all safety precautions have been read and understood. SECTION 15: Regulatory information

#### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

15.2. US State regulations	
Hemodialysis Acid Concentra	te
State or local regulations	This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.
SECTION 16: Other infor	mation
Date of issue	: 03/02/2017
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Other information	: None.

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