SECTION 1: Identification

1.1. Identification
Product name: Bicarbonate Concentrate Powder
Product code: BC-1 Series - RENASOL® Bicarbonate Powder
MB-330 Series - CENTRISOL® Bicarbonate Powder

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture: Concentrate formulation to be used in conjunction with acid concentrate in a compatible artificial kidney (hemodialysis) machine.

1.3. Details of the supplier of the safety data sheet
Medivators Inc.
14605 28th Avenue North
Minneapolis, MN 55447 - USA
T 1-800-328-3340

1.4. Emergency telephone number
Emergency number: CHEMTREC International (703)-527-3887

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture
GHS-US classification
Not classified

2.2. Label elements
GHS-US labelling
No labelling applicable

2.3. Other hazards
No additional information available

2.4. Unknown acute toxicity (GHS US)
Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures
None by OSHA HazCom 2012 criteria

SECTION 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: If irritation occurs, flush skin with plenty of water. Get medical attention if irritation persists.
First-aid measures after eye contact: In case of contact, immediately flush eyes with plenty of water. 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.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms/injuries after inhalation: May cause respiratory tract irritation.
Symptoms/injuries after skin contact: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
Symptoms/injuries after eye contact: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Symptoms/injuries after ingestion: Non-hazardous
4.3. Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical 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 arising from the substance or mixture

Fire hazard: Does not support combustion.

Reactivity: No dangerous reaction known under conditions of normal use.

5.3. Advice for firefighters

Protection during firefighting: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Keep container closed when not in use. Store at room temperature. Avoid exposure to extreme temperatures and humidity. Store unused product in original closed container. Once the product has been removed, do not return to the original container.

6.1.1. For non-emergency personnel

No additional information available.

6.1.2. For emergency responders

No additional information available.

6.2. Environmental precautions

No additional information available.

6.3. Methods and material for containment and cleaning up

For containment: Pick up large pieces, 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: Vacuum or sweep material and place in a disposal container.

6.4. Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. 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 storage, including any incompatibilities

Storage conditions: Keep out of the reach of children. Keep container tightly closed. Store in a dry, cool and well-ventilated place.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available.

8.2. Exposure controls

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

Hand protection: None necessary under normal conditions of use. Wear gloves if handling large quantities.

Eye protection: Safety glasses or goggles are recommended when using product.

Skin and body protection: Not required

Respiratory protection: Not required

Environmental exposure controls: Maintain levels below community environmental protection thresholds.
 SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- **Physical state**: Powder
- **Appearance**: White
- **Colour**: White
- **Odour**: None
- **Odour threshold**: No data available
- **pH**: 7.0-8.0 when mixed
- **Melting point**: No data available
- **Freezing point**: No data available
- **Boiling point**: No data available
- **Flash point**: No data available
- **Relative evaporation rate (butylacetate=1)**: No data available
- **Flammability (solid, gas)**: Non flammable.
- **Vapour pressure**: No data available
- **Relative vapour density at 20 °C**: No data available
- **Relative density**: 1.1
- **Solubility**: Complete
- **Partition coefficient n-octanol/water**: No data available
- **Auto-ignition temperature**: No data available
- **Decomposition temperature**: No data available
- **Viscosity, kinematic**: No data available
- **Viscosity, dynamic**: No data available
- **Explosive limits**: No data available
- **Explosive properties**: No data available
- **Oxidising properties**: 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 under normal storage conditions.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Acids.

10.6. Hazardous decomposition products

Will not occur.

 SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Not classified.

### Bicarbonate Concentrate Powder

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<td>LC50 inhalation rat</td>
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Bicarbonate Concentrate Powder
Safety Data Sheet

Skin corrosion/irritation: Based on available data, the classification criteria are not met
Serious eye damage/irritation: Based on available data, the classification criteria are not met
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: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
Symptoms/injuries after eye contact: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Symptoms/injuries after ingestion: May be harmful if swallowed. May cause stomach distress, nausea or vomiting.
Other information: Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12: Ecological information

12.1. Toxicity
Ecology - general: No information known.

12.2. Persistence and degradability
Bicarbonate Concentrate Powder
Persistence and degradability: Not established.

12.3. Bioaccumulative potential
Bicarbonate Concentrate Powder
Bioaccumulative potential: Not established.

12.4. Mobility in soil
No additional information available

12.5. Other adverse effects
Effect on the global warming: No known effects from this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Waste disposal 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

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.

15.3. US State regulations
California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm
SECTION 16: Other information

Date of issue : 03/02/2017
Revision date : 03/02/2017
Other information : None.

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