SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Sol-Cart B

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture
Sodium bicarbonate for haemodialysis

1.3. Details of the supplier of the safety data sheet
B. Braun Avitum AG
Schwarzenberger Weg 73 - 79
D-34212 Melsungen

Responsible Department
Zentrale Service-Bereiche/Logistik und Supply Chain
Telephone: +49 (0) 5661 / 71-4422
Emergency telephone: +49 (0) 6132 / 84463 (GBK Gefahrgut Buero GmbH, Ingelheim)
Responsible for the safety data sheet: sds@gbk-ingelheim.de

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
This substance is not classified as hazardous according to Directive 67/548/EEC.

2.2. Label elements
Additional advice on labelling
The product does not require a hazard warning label in accordance with EC directives/the relevant national laws.

2.3. Other hazards
Not known.

SECTION 3: Composition/information on ingredients

3.1. Substances
Chemical characterization
Solid matter
Sum formula: CHNaO3

<table>
<thead>
<tr>
<th>EC No</th>
<th>Chemical name</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS No</td>
<td>Classification</td>
<td></td>
</tr>
<tr>
<td>Index No</td>
<td>GHS classification</td>
<td></td>
</tr>
<tr>
<td>REACH No</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| 205-633-8 | Sodium bicarbonate | 100 % |
| 144-55-8  |                   |       |
| 01-2119457606-32-0000 |          |       |

Full text of R and H phrases: see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information
Remove contaminated soaked clothing immediately.
If you feel unwell, seek medical advice.

**After inhalation**
Move to fresh air in case of accidental inhalation of dusts.

**After contact with skin**
Wash hands with water as a precaution.

**After contact with eyes**
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical treatment by eye specialist.

**After ingestion**
Rinse out mouth and give plenty of water to drink. Consult a physician.

### 4.2. Most important symptoms and effects, both acute and delayed
Contact with eyes, skin or oral tissues may cause irritation. Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.

### 4.3. Indication of any immediate medical attention and special treatment needed
Treat symptoms.

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**SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

**Suitable extinguishing media**
Product does not burn, fire-extinguishing activities according to surrounding. Any extinguishing means and measures are acceptable.

**5.2. Special hazards arising from the substance or mixture**
No data available.

**5.3. Advice for firefighters**
No special protective equipment required.

**Additional information**
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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**SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures
Avoid dust formation. Do not breathe dust. Use personal protective clothing.

**6.2. Environmental precautions**
This concentrate is not allowed to be released into the sewerage, surface water or groundwater.

**6.3. Methods and material for containment and cleaning up**
Pick up mechanically, avoiding dust, and provide disposal in suitable recipients.

**6.4. Reference to other sections**
Observe protective instructions (see Sections 7 and 8). Information for disposal see section 13.

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**SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling
Advice on safe handling
Avoid contact with eyes. Avoid the formation and deposition of dust. Do not breathe dust.
Advice on protection against fire and explosion
No special protective measures against fire required.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels
Keep container tightly closed.
Keep tightly closed.

Advice on storage compatibility
Incompatible with:
Acids
Alkaline metals.

7.3. Specific end use(s)
Sodium bicarbonate for haemodialysis

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Occupational exposure controls
Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.
Obey TLV for common dust, if applicable.

Protective and hygiene measures
When using, do not eat, drink or smoke.
Avoid contact with eyes.
Wash hands before breaks and at the end of workday.
Take off immediately all contaminated clothing.

Respiratory protection
Dust mask must be worn if exposed to dust.
(Particle filter P1).

Hand protection
Protective gloves resistant to chemicals made off natural-rubber latex, minimum coat thickness 0.6 mm, permeation resistance (wear duration) approx. 480 minutes, i.e. protective glove <Lapren 706> made by www.kcl.de.
This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.
Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Eye protection
Safety goggles with side protection (EN 166).

Skin protection
Not required under normal use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>Powder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour:</td>
<td>White</td>
</tr>
<tr>
<td>Odour:</td>
<td>Odourless</td>
</tr>
</tbody>
</table>

Test method

pH-Value (at 20 °C): 7,9 - 8,4 (50 g/l)

Changes in the physical state
Melting point: 270 °C Decomposition
9.2. Other information
Bulk density: ~ 1000 kg/m³
Decomposition temperature: > 50 °C

SECTION 10: Stability and reactivity

10.1. Reactivity
No decomposition if stored and applied as directed.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
Reactions with strong acids.
Reactions with alkali metals.

10.4. Conditions to avoid
To avoid thermal decomposition, do not overheat.

10.5. Incompatible materials
Alkaline metals
Acids.

10.6. Hazardous decomposition products
No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity
LD50/oral/rat: = 4220 mg/kg (RTECS)

Irritation and corrosivity
Skin irritation (rabbit): Slightly irritating.
Eyes irritation (rabbit): Slightly irritating.

Sensitising effects
Not classified.

Severe effects after repeated or prolonged exposure
STOT - Single exposure: Not classified.
STOT - Repeated exposure: Not classified.
Aspiration hazard: Not classified.

Carcinogenic/mutagenic/toxic effects for reproduction
Carcinogenicity: Not classified.
Mutagenicity: Ames-Test: Negative (IUCLID)
Teratogenicity: Not classified.

Empirical data on effects on humans
Contact with eyes, skin or oral tissues may cause irritation.
Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.
If appropriately handled and if in accordance with the general hygienic rules, no damages to health have become known.
SECTION 12: Ecological information

12.1. Toxicity
LC50/Gambusia affinis/96 h = 7550 mg/l (IUCLID)
EC50/Daphnia magna/48 h = 2350 mg/l (IUCLID)

12.2. Persistence and degradability
No data available.

12.3. Bioaccumulative potential
No data available.

12.4. Mobility in soil
No data available.

12.5. Results of PBT and vPvB assessment
According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

12.6. Other adverse effects
Low hazard to waters.

Further information
If handled and used properly, no adverse ecological effects are to be expected.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal
Can be landfilled or incinerated, when in compliance with local regulations.

Waste disposal number of waste from residues/unused products
180107  WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care); wastes from natal care, diagnosis, treatment or prevention of disease in humans; chemicals other than those mentioned in 18 01 06

Contaminated packaging
Empty containers should be taken for local recycling, recovery or waste disposal. Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of like the product.

SECTION 14: Transport information

Other applicable information
No hazardous material as defined by the transport regulations.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information
1999/13/EC (VOC): 0 %

National regulatory information
Water contaminating class (D): 1 - slightly water contaminating

15.2. Chemical safety assessment
For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information
Further Information
Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)