## Material safety data sheet

Blood separating gel in RegenBCT® and RegenATS®

**Date**: 2016-02-03  
(Previous: 2013-02-06)

### Product Specifications

#### 1. Product identification

- **Product name**: Blood separating gel
- **Expected use**: Separator gel which is used as pre-set in blood collection tubes.
- **Appearance**: Transparent light yellow or milky white colored compound.
- **Physical properties**: Thixotropic fluid which separates serum from clot or plasma from blood cells in blood collection tubes after centrifugation following blood collection.

**Supplier**
- **Phone**: 0041.21.864.01.10
- **Emergency phone**: 0041.44.251.51.51 (Tox Zentrum)

#### 2. Hazards identification

- **Category**: Combustible solid
- **Hazardous property**: Combustible
- **Environmental pollution**: Vapor, smoke, carbon monoxide and carbon dioxide are generated due to combustion.

**Physical hazards**
- Explosives: Not applicable
- Flammable gases: Not applicable
- Flammable aerosols: Not applicable
- Oxidizing gases: Not applicable
- Gases under pressure: Not applicable
- Flammable liquids: Not applicable
- Flammable solids: Not applicable
- Self-reactive substances and mixtures: Not applicable
- Pyrophoric liquids: Not applicable
- Pyrophoric solids: Not applicable
- Self-heating substances and mixtures: Not applicable
- Substances and mixture which, in contact with water, emit flammable gases: Not applicable
- Oxidizing liquids: Not applicable
- Oxidizing solids: Not applicable
- Organic peroxides: Not applicable
- Corrosive to metals: Not classified (may be not applicable)

**GHS label elements including precautionary statements**
- **Symbol**: —
- **Signal word**: —
- **Hazard Statement**: —

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**FOR CHEMICAL EMERGENCY**

Spill, Leak, Exposure or Incident

Call **INFOTRAC** 24-Hour Number:

1-800-535-5053 or +1-352-323-3500 (outside USA)
3. Composition / information on ingredients

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyoxyethylene hydrocarbon oligomer</td>
<td>mixture</td>
</tr>
<tr>
<td>CAS N° 68132-00-3</td>
<td>BCT gel</td>
</tr>
<tr>
<td>Tris(2-ethylhexyl)benzene-1,2,4-tricarboxylate</td>
<td></td>
</tr>
<tr>
<td>CAS N° 3319-31-1</td>
<td>40 to 60%</td>
</tr>
<tr>
<td>Silicon dioxide</td>
<td>40 to 60%</td>
</tr>
<tr>
<td>CAS N° 7631-86-9</td>
<td></td>
</tr>
<tr>
<td>Silane,dichlorodimethyl, reaction products with silica</td>
<td>&lt;10%</td>
</tr>
<tr>
<td>CAS N° 68611-44-9</td>
<td></td>
</tr>
<tr>
<td>Others</td>
<td>&lt;1%</td>
</tr>
</tbody>
</table>

4. First aid measures

Inhalation
Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Get medical advice/attention immediately.
Receive the doctor's examination promptly when the cough and phlegm, etc. are awful.

Skin contact
Remove/Take off immediately all contaminated clothing.
Wash with soap and water.
Rinse skin with water/shower and take care of with hand cream.
If skin irritation/rash occurs or feel unwell, seek medical advice/attention.

Eye contact
Take of contaminated clothing and wash before reuse
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists, get medical advice/attention.
Even if it is very small amount contact, rinse by clean water for 15 minutes or more, and seek ophthalmologist's advice/attention.

Ingestion
Rinse mouth immediately with water or milk and do not vomit forcibly.
Moreover, do not give anything from the mouth to the patient when not conscious.
Get medical advice/attention immediately.
5. Fire fighting measures

| Suitable extinguishing media | Dry chemical powder, carbon dioxide, foam, large volume of water spray in case of larger fire |
| Unsuitable extinguishing media | Water jet will cause bursting and scattering |
| Specific extinction method | For initial stage extinction, carbon dioxide or dry chemical powder. When a fire extends, fire is extinguished by a large amount of water spray. |
| Special protective equipment for fire-fighters | In the extinction work, an appropriate protective equipment (gloves, glasses, and mask) has to be worn. Because during a fire, hazardous gases may be generated, fire-fighters have to wear self-contained breathing apparatus and other protective equipment. |
| Specific hazards during fire fighting | Combustion products include vapor, smoke, carbon monoxide and carbon dioxide |

6. Accidental release measures

| Personal Precautions | Evacuate personnel without wearing protective equipment. Put on protective equipment. Ensure adequate ventilation. |
| Environmental Precautions | Remove the neighboring fire and heat sources to prevent catching fire. Do not throw the leakage thing directly into environment. Collect spillage as much as possible after preventing spillage from further spreading out by means of covering with sand, saw dust etc. |

7. Handling and storage

| Handling | Wear protective equipment measures described in "Chapter 8. Exposure controls / Personal protection", and wear an appropriate protective equipment. Handle the gel at temperatures from 0 to 60°C, avoiding the foreign material contamination. The local exhaust device is set up in the indoor handling, especially with organic detergent. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not swallow. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Wash hands, face, etc. thoroughly and take care of with hand cream, etc. after handling. Always has a stock of enough personal protectors for emergency. Take care of falling or tumbling for handling containers. |
| Notes | |
| Safety treatment notes | |
8. Exposure controls / Personal protection

Facility and equipment measures

Facilities in which this material is handled should be structured by the perfectly closed system. Should be established the adequate local exhauster in the indoor working area where steam or the mist occurs and organic detergent is used.

The worker wears an appropriate protection tool and works. Moreover, the equipment for the eye washing and the body washing is installed near the handling place.

Personal protective equipment

Respiratory protection

Gas mask

Protection glasses with shroud

Goggle type glasses, solvent resisting gloves, long-sleeve clothes and long boots

Eye protection

Skin protection

Hygiene measures

After handling, it is washed one's hands well.

Polluted the work clothes are not put out from the workshop.

9. Physical and chemical characteristics

Appearance

Semi-transparent pale yellow or milky white paste mixture

Odor

Oily smell slightly

Pour point

<-20°C

Boiling point

Unknown

Flash point

Approx. 215°C (COC)

Explosion limit

Unknown

Vapor pressure

Unknown

Vapor density

Unknown

Specific gravity

1.04 to 1.06g/cm³ (25°C)

Solubility

Unsoluble in water, partially soluble in acetone, and easily soluble in hexane

Ignition property (self-ignition, reaction with water)

None

Ignition point

Unknown

Oxidizing property

None

Self-reaction, explosion property

None

Dust explosion property

None

Melting point

Unknown
<table>
<thead>
<tr>
<th>Viscosity</th>
<th>400 to 700 Pa.s (15°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>100 to 250 Pa.s (25°C)</td>
</tr>
<tr>
<td></td>
<td>30 to 100 Pa.s (45°C)</td>
</tr>
<tr>
<td></td>
<td>10 to 80 Pa.s (65°C)</td>
</tr>
</tbody>
</table>

10. **Stability and reactivity**

**Stability**

Reactivity: In a usual handling condition, chemically stable against indoor light, heat, and the impact

Possibility of hazardous reaction: Not applicable

Incompatible material: Acid or alkaline aqueous solution

Hazardous decomposition products: Vapor, smoke, carbon monoxide, and carbon dioxide are generated due to combustion

11. **Toxicological information**

<table>
<thead>
<tr>
<th>Hemolysis</th>
<th>Unknown</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Sensitization</td>
<td>Unknown</td>
</tr>
<tr>
<td>Mutagenicity</td>
<td>Unknown</td>
</tr>
<tr>
<td>Intracutaneous irritation</td>
<td>Unknown</td>
</tr>
<tr>
<td>Systemic toxicity</td>
<td>Unknown</td>
</tr>
<tr>
<td>Cytotoxicity</td>
<td>Unknown</td>
</tr>
<tr>
<td>Acute toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Sub-acute toxicity</td>
<td>Unknown</td>
</tr>
<tr>
<td>Chronic toxicity</td>
<td>Unknown</td>
</tr>
<tr>
<td>Eye irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>Not classified</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

12. **Ecological information**

| Aquatic toxicity                 | Not classified                 |
| Decomposition                    | Hard to decompose              |
| Accumulation property            | Unknown                        |
| Ichthyotoxicity                  | Unknown                        |

13. **Disposal consideration**

Remainder waste: Dispose of contents/container to waste treatment company having the official approval of regulation. Incineration is recommended, but it is required to follow the regulations for discarding treatment specified by the nation, country or district.

Pollution container and packing: The container is recycled after cleaned, or is disposed of appropriately according to the standard of related regulations and the local government. Remove contents completely when you abandon an empty container. Proper measures should be taken to prevent inhaling the vapor, smoke, carbon monoxide, and carbon dioxide are generated due to combustion.

14. **Transport information (International regulations)**
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Land

Transport in accordance with your country and regions regulations (RID,ADR, DOT etc.).

Sea

Transport in accordance with IMDG Code.

Air

Transport in accordance with ICAO-TI/IATA-DGR.

UN number

Not applicable

Hazard class

Not applicable

Domestic Regulations

Transport in accordance with local regulation.

Emergency response guideline number

Not applicable

Make sure that there is no leakage from the vessel used for the conveyance.
Carry out the loading in such a way that the package will not fall down, drop or get damaged, taking measure to prevent collapse during the conveyance.
Perform the conveyance of the product at 0 to 40°C, avoiding the direct sunlight.

15. Regulatory information

Japanese fire prevention law: Specified combustibles (combustible solids)

16. Other information

The product safety data sheet supposes the use and process mentioned below, which is therefore not applicable to other uses or process.
- Use: Only the use by taking it into a blood collection tube beforehand,
- Process: Only the process in which the blood clot and serum or the blood cell and plasma are separated and covered in the tube with the blood collected.

The product safety data sheet declares no use of material mentioned below:
- Ephedrine
- Ephedrine extract
- Pseudo ephedrine
- Safrole
- Latex

17. Disclaimer

REGEN LAB SA provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.