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

1.1 Product identifier
Trade name : 4Cell® BHK-21 CD Powder Medium
Substance name : 4Cell® BHK-21 CD Powder Medium

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.3 Details of the supplier of the safety data sheet
Company : Sartorius Stedim Biotech GmbH
August-Spindler-Strasse 11
37079 Göttingen

E-mail address of person responsible for the SDS : Department CA-FM Environment@sartorius.com

1.4 Emergency telephone number
UK/Europe/Global: +44.1865.407.333 (Sartorius 29003)
United States: +1.866.928.0789 (Toll free), (Sartorius 29003)
Canada: +1.800.579.7421 (Toll free), (Sartorius 29003)
United States & Canada (geographic): +1.202.464.2554 (Sartorius 29003)
Asia-Pacific/East & South East Asia (without China): +65.3158.1074 (Sartorius 29003)
Japan: +813.4578.9341 (Sartorius 29003)
Indonesia: 007.803.011.0293 (Toll free Indonesia), (Sartorius 29003)
Malaysia: +60.3.6207.4347 (Sartorius 29003)
Thailand: 001.800.120.666.751 (Toll free Thailand), (Sartorius 29003)
India: 000.800.100.7479 (Toll free India) or +65.3158.1198 (Sartorius 29003)
South Korea: +82.2.3479.8401 (Sartorius 29003)
Australia: +61.2.8014.5558 (Sartorius 29003)
New Zealand: +64.9.929.1483 (Sartorius 29003)
Middle East/Africa: +44.1235.239671 (Sartorius 29003)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2 H315: Causes skin irritation.
Eye irritation, Category 2 H320: Causes eye irritation.
Specific target organ toxicity - single exposure, Category 2 H335: May cause respiratory irritation.
2.2 Label elements

Labelling REGULATION (EC) No 1272/2008

Hazard pictograms:

![Warning symbol]

Signal word: Warning

Hazard statements:
- H315: Causes skin irritation.
- H320: Causes eye irritation.
- H335: May cause respiratory irritation.

Precautionary statements:

Prevention:
- P261: Avoid breathing dust.
- P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
- P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337 + P313: If eye irritation persists: Get medical advice/ attention.
- P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
- P332 + P313: If skin irritation occurs: Get medical advice/ attention.
- P304 + P341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P312: Call a POISON CENTER/doctor/.? if you feel unwell.

2.3 Other hazards

EUH208: Contains cobalt (II) chloride hexahydrate, sodium pyruvate and sodium selenite. Can cause allergic reactions.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature: Reagent powdered form

Hazardous components
<table>
<thead>
<tr>
<th>CAS-No. EC-No. Registration number</th>
<th>Chemical name</th>
<th>Classification (67/548/EEC)</th>
<th>Classification (REGULATION (EC) No 1272/2008)</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10102-18-8</td>
<td>Sodium selenite 233-267-9</td>
<td>T; T; R23/25 N; R51 R31</td>
<td>Acute Tox. 2; H300 Acute Tox. 2; H330 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411</td>
<td>&lt;= 0,1</td>
</tr>
<tr>
<td>7791-13-1</td>
<td>Cobalt chloride hexahydrate</td>
<td>Xn-N; Xn; R45-R20/21/22-R42-R52/53</td>
<td>Acute Tox. 4; H302 Skin Sens. 1; H317 Resp. Sens. 1; H334 Muta. 2; H341 Carc. 1B; H350i Repr. 1B; H360F Aquatic Acute 1; H400 Aquatic Chronic 1; H410</td>
<td>&lt;= 0,1</td>
</tr>
<tr>
<td>7803-55-6</td>
<td>Ammonium metavanadate 232-261-3</td>
<td>T; T; R25 T; T; R48-R23 Repr. Cat. 3; R62-R63 Xn; Xn; R20 N; R51/53</td>
<td>Acute Tox. 3; H301 Acute Tox. 4; H332 Eye Irrit. 2; H319 Repr. 2; H361 STOT RE 1; H372 Aquatic Chronic 2; H411</td>
<td>&lt;= 0,1</td>
</tr>
<tr>
<td>10025-69-1</td>
<td>Tin chloride dihydrate</td>
<td>Xn; Xn; R21 C; C; R34 N; N; R50/53</td>
<td>Acute Tox. 4; H302 Skin Sens. 1; H317 Resp. Sens. 1; H334 Muta. 2; H341 Carc. 1B; H350i Repr. 1B; H360F Aquatic Acute 1; H400 Aquatic Chronic 1; H410</td>
<td>&lt;= 0,1</td>
</tr>
<tr>
<td>13517-24-3</td>
<td>Sodium metasilicate nonahydrate 229-912-9</td>
<td>Met. Corr. 1; H290 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H335</td>
<td>&lt;= 0,1</td>
<td></td>
</tr>
<tr>
<td>7446-20-0</td>
<td>Zinc sulfate heptahydrate 616-097-3</td>
<td>Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410</td>
<td>&lt;= 0,1</td>
<td></td>
</tr>
<tr>
<td>113-24-6</td>
<td>Sodium pyruvate 204-024-4</td>
<td>Eye Irrit. 2; H319 Skin Sens. 1B; H317</td>
<td>&lt;= 0,9</td>
<td></td>
</tr>
<tr>
<td>45738-97-4</td>
<td>3,7-</td>
<td>Eye Dam. 1; H318</td>
<td>&lt;= 0,1</td>
<td></td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

4Cell® BHK-21 CD Powder Medium

Version 1.3 Revision Date: 15.04.2020 SDS Number: SAG-R0001802 Date of last issue: 21.02.2020 Date of first issue: 05.03.2019

| dihydropurin-6-one, Sodium |

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled: If breathed in, move person into fresh air.
In the case of inhalation of aerosol/mist consult a physician if necessary.

In case of skin contact: Wash off immediately with soap and plenty of water.
If skin irritation persists, call a physician.

In case of eye contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

If swallowed: Clean mouth with water and drink afterwards plenty of water.
Never give anything by mouth to an unconscious person.
Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

5.3 Advice for firefighters

Special protective equipment for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Further information: The product itself does not burn.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Avoid dust formation.

6.2 Environmental precautions

Environmental precautions: Do not let product enter drains.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up: Pick up and arrange disposal without creating dust. Pick up and transfer to properly labelled containers.

6.4 Reference to other sections

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Hygiene measures: Avoid contact with skin, eyes and clothing. Keep away from food, drink and animal feedingstuffs. When using do not eat or drink. Wear suitable gloves and eye/face protection.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: Keep container tightly closed in a dry and well-ventilated place. Keep in the refrigerator (2-8°C).

Storage class (TRGS 510): 10-13, German Storage Class 10 to 13

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Personal protective equipment

Eye protection: Tightly fitting safety goggles

Hand protection

Remarks: butyl-rubber Nitrile rubber

Skin and body protection: Lab coat
SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>solid</td>
</tr>
<tr>
<td>Colour</td>
<td>colourless, white, reddish-violet</td>
</tr>
<tr>
<td>Odour</td>
<td>odourless</td>
</tr>
<tr>
<td>Density</td>
<td>No data available</td>
</tr>
</tbody>
</table>

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

10.2 Chemical stability

10.3 Possibility of hazardous reactions

Hazardous reactions: No dangerous reaction known under conditions of normal use. Stable under recommended storage conditions.

10.4 Conditions to avoid

Conditions to avoid: Exposure to moisture

10.5 Incompatible materials

Materials to avoid: Strong oxidizing agents

10.6 Hazardous decomposition products

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Further information

Product:
Remarks: Health injuries are not known or expected under normal use.
4Cell® BHK-21 CD Powder Medium

SECTION 12: Ecological information

12.1 Toxicity
   No data available

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
   Not relevant

12.6 Other adverse effects

   Product:
   Additional ecological information : Remarks: In large quantities, this product may affect the functioning of waste-water treatment plants.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

   Product : In accordance with local and national regulations.

SECTION 14: Transport information

14.1 UN number

14.2 UN proper shipping name

14.3 Transport hazard class(es)

14.4 Packing group

14.5 Environmental hazards

14.6 Special precautions for user

   Remarks : Not dangerous goods in the meaning of ADR/RID, ADN, IMDG-Code, ICAO/IATA-DGR

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

   Not applicable for product as supplied.
SECTION 15: Regulatory information

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

Water contaminating class (Germany): WGK 1 slightly hazardous to water

15.2 Chemical safety assessment

SECTION 16: Other information

Full text of R-Phrases

R20: Harmful by inhalation.
R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.
R21: Also harmful in contact with skin.
R23: Toxic by inhalation.
R23/25: Toxic by inhalation and if swallowed.
R25: Toxic if swallowed.
R31: Contact with acids liberates toxic gas.
R34: Causes burns.
R42: May cause sensitisation by inhalation.
R45: Toxic if swallowed.
R48: Danger of serious damage to health by prolonged exposure.
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51: Toxic to aquatic organisms.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R62: Possible risk of impaired fertility.
R63: Possible risk of harm to the unborn child.

Full text of H-Statements

H290: May be corrosive to metals.
H300: Fatal if swallowed.
H301: Toxic if swallowed.
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H330: Fatal if inhaled.
H332: Harmful if inhaled.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
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H335 : May cause respiratory irritation.
H341 : Suspected of causing genetic defects if inhaled.
H350i : May cause cancer by inhalation.
H360F : May damage fertility.
H361 : Suspected of damaging fertility or the unborn child.
H372 : Causes damage to organs through prolonged or repeated exposure if inhaled.
H400 : Very toxic to aquatic life.
H410 : Very toxic to aquatic life with long lasting effects.
H411 : Toxic to aquatic life with long lasting effects.

Full text of other abbreviations
6.4 : Eye irritation
Acute Tox. : Acute toxicity
Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard
Carc. : Carcinogenicity
Eye Dam. : Serious eye damage
Eye Irrit. : Eye irritation
Met. Corr. : Corrosive to metals
Muta. : Germ cell mutagenicity
Repr. : Reproductive toxicity
Resp. Sens. : Respiratory sensitisation
Skin Corr. : Skin corrosion
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation
STOT RE : Specific target organ toxicity - repeated exposure
STOT SE : Specific target organ toxicity - single exposure

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

DE / EN