

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SARTORIUS

4Cell® XtraCHO Production Medium, Liquid

| | | | |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 20.12.2019 |
| 1.2 | 06.03.2020 | SAG-R0001801 | Date of first issue: 01.03.2019 |

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

1.1 Product identifier

Trade name : 4Cell® XtraCHO Production Medium, Liquid
Substance name : 4Cell® XtraCHO Production Medium, Liquid

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: +81.3.4578.9341 (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: +61.2.8014.4558 (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 | H316: Causes mild skin irritation. |
| Eye irritation, Category 2 | H320: Causes eye irritation. |
| Specific target organ toxicity - single exposure, Category 3 | H335: May cause respiratory irritation. |


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Bridging principle "Dilution".

2.2 Label elements

Labelling REGULATION (EC) No 1272/2008

| | | |
|--------------------------|---|--|
| Hazard pictograms | : |  |
| Signal word | : | Warning |
| Hazard statements | : | H316 Causes mild skin irritation. H320 Causes eye irritation. H335 May cause respiratory irritation. |
| Precautionary statements | : | P261 Avoid breathing spray. Prevention: P280 Wear protective gloves/ 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. P333 + P313 If skin irritation or rash 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 nickel sulfate hexahydrate, sodium pyruvate and sodium selenite. Can cause allergic reactions.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

| | | |
|-----------------|---|-------------------|
| Chemical nature | : | Reagent Liquid |
|-----------------|---|-------------------|

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Hazardous components

| CAS-No. EC-No. Registration number | Chemical name | Classification (67/548/EEC) | Classification (REGULATION (EC) No 1272/2008) | Concentration (%) |
|--|---|---|--|----------------------|
| 7803-55-6 | Ammonium metavanadate 232-261-3 | T; T; R25 T; T; R48-R23 Repr.Cat.3; R62- R63 Xn; Xn; R20 N; R51/53 | Acute Tox. 3; H301 Acute Tox. 4; H332 Eye Irrit. 2; H319 Repr. 2; H361 STOT RE 1; H372 Aquatic Chronic 2; H411 | <= 0,01 |
| 7758-99-8 | Copper sulphate pentahydrate 231-847-6 01- 2119520566-40 | | Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 | <= 0,01 |
| 10034-96-5 | Manganese(II) sulfate monohydrate 232-089-9 | | Eye Dam. 1; H318 STOT RE 2; H373 Aquatic Chronic 2; H411 | <= 0,01 |
| 10101-97-0 | Nickel (II)sulphate hexahydrate 600-152-3 | | Acute Tox. 4; H302 Skin Irrit. 2; H315 Skin Sens. 1; H317 Acute Tox. 4; H332 Resp. Sens. 1; H334 Muta. 2; H341 Carc. 1A; H350 Repr. 1B; H360 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 | <= 0,01 |
| 13517-24-3 | Sodium metasilicate nonahydrate 229-912-9 | | Met. Corr. 1; H290 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H335 | <= 0,01 |
| 10102-18-8 | Sodium selenite 233-267-9 | T; T; R23/25 N; R51 R31 | Acute Tox. 2; H300 Acute Tox. 2; H330 Skin Irrit. 2; H315 6.4 2; H319 Skin Sens. 1; H317 Aquatic Chronic 2; H411 | <= 0,01 |

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|------------|--|--|--|---------|
| 10025-69-1 | Tin chloride dihydrate | Xn; Xn; R21 C; C; R34 N; N; R50/53 | Acute Tox. 4; H302 Skin Corr. 1B; H314 Aquatic Acute 1; H400 | <= 0,01 |
| 7446-20-0 | Zinc sulfate heptahydrate 616-097-3 | | Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 | <= 0,01 |
| 30925-07-6 | L-Cystine dihydrochloride 250-391-9 | | Skin Corr. 1B; H314 Eye Dam. 1; H318 | <= 0,1 |
| 110-15-6 | Succinic acid 203-740-4 | | Eye Dam. 1; H318 | <= 0,2 |
| 113-24-6 | Sodium pyruvate 204-024-4 | | Eye Irrit. 2; H319 Skin Sens. 1B; H317 | <= 0,9 |

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : When symptoms persist or in all cases of doubt seek medical advice.
- If inhaled : 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 : Rinse thoroughly with plenty of water, also under the eyelids.
If eye irritation persists, consult a specialist.
- If swallowed : Rinse mouth with water.
Never give anything by mouth to an unconscious person.
Consult a physician if necessary.

4.2 Most important symptoms and effects, both acute and delayed

- Risks : irritant effects

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : For specialist advice physicians should contact the Poisons Information Service.

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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 formation of aerosol.

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 transfer to properly labelled containers.

6.4 Reference to other sections

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol.

Advice on protection against fire and explosion : Not applicable

Hygiene measures : Avoid contact with skin, eyes and clothing. Keep away from food, drink and animal feedingstuffs. When using do not eat or drink.

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7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed. Keep in the refrigerator (2-8°C). Protect from light.

Further information on storage conditions : Storage period: 15 months, under the above storage conditions.

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 : Safety glasses

Hand protection

Remarks : Nitrile rubber butyl-rubber

Skin and body protection : Lab coat

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : colourless

Odour : odourless

Flash point : Not applicable

Density : similar to water

9.2 Other information

No data available

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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 sunlight.

10.5 Incompatible materials

Materials to avoid : Acids
Oxidizing agents
Bases

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Further information

Product:

Remarks: Health injuries are not known or expected under normal use.

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

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12.5 Results of PBT and vPvB assessment

Not relevant

12.6 Other adverse effects

Product:

Additional ecological information : Remarks: We have no quantitative data concerning the ecological effects of this product.

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

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15.2 Chemical safety assessment

SECTION 16: Other information

Full text of R-Phrases

| | |
|--------|--|
| R20 | : Harmful by inhalation. |
| 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. |
| 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. |
| 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. |
| H335 | : May cause respiratory irritation. |
| H341 | : Suspected of causing genetic defects. |
| H350 | : May cause cancer. |
| H360 | : May damage fertility or the unborn child. |
| H361 | : Suspected of damaging fertility or the unborn child. |
| H372 | : Causes damage to organs through prolonged or repeated exposure if inhaled. |
| H373 | : May cause damage to organs through prolonged or repeated exposure. |
| 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

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| 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 |

Further information

Other information : This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

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.

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