

Safety Data Sheet

日本

1. Product and company identification

Product name Cell Boost™ 7b, without Poloxamer-188, without Insulin, without L-Glutamine

Catalogue Number SH31027.07CN

Product type Solid.

Original preparation date 9/10/2025

Date of issue/Date of revision 9/10/2025

Date of previous issue 9/10/2025

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

Identified uses

For Further Manufacturing or Research Use. Not for Diagnostic or Therapeutic Use.

Supplier / Manufacturer

Cytiva Austria
Krempelstr. 5
4061 Pasching
AUSTRIA
Tel. (+43) 7229 64865
Fax (+43) 7229 64866

HyClone Laboratories
925 West 1800 South
Logan, Utah 84321
Phone: (435) 792-8000

グローバルライフサイエンステクノロジー株式会社
新宿区百人町三丁目25番1号
サンケンビルヂング
東京都
169-0073
日本
+81-(0)3-5331-9336

Cytiva Singapore
1 Maritime Square #13-01
Harbourfront Centre
Singapore 099253

2. Hazards identification

GHS Classification

SKIN IRRITATION - Category 2
EYE IRRITATION - Category 2A
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 100%

GHS label elements

Hazard pictograms



Signal word

Warning

Hazard statements

Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.

Precautionary statements

General

| | |
|--|---|
| Prevention | Wear protective gloves. Wear eye or face protection. Use only outdoors or in a well-ventilated area. Avoid breathing dust. Wash thoroughly after handling. |
| Response | IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice or attention. IF IN EYES: 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 or attention. |
| Storage | Store locked up. Store in a well-ventilated place. Keep container tightly closed. |
| Disposal | Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| Other hazards which do not result in classification | None known. |

3. Composition/information on ingredients

| Substance/mixture | Mixture | | | |
|--------------------------|---------|-------------|--|----------------|
| Ingredient name | 含有量(%) | Identifiers | Official Gazette notice reference number | |
| | | | CSC | ISHL |
| tyrosine | <48.25 | 60-18-4 | 9-1596 | Not available. |

4. First aid measures

| | |
|---------------------|---|
| Inhalation | Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| Skin contact | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse. |
| Eye contact | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. |
| Ingestion | Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |

Most important symptoms/effects, acute and delayed

Potential acute health effects

| | |
|---------------------|---|
| Inhalation | May cause respiratory irritation. |
| Skin contact | Causes skin irritation. |
| Eye contact | Causes serious eye irritation. |
| Ingestion | No known significant effects or critical hazards. |

Short term exposure

| | |
|----------------------------------|----------------|
| Potential delayed effects | Not available. |
|----------------------------------|----------------|

Over-exposure signs/symptoms

| | |
|---------------------|--|
| Inhalation | Adverse symptoms may include the following: respiratory tract irritation coughing |
| Skin contact | Adverse symptoms may include the following: irritation redness |
| Eye contact | Adverse symptoms may include the following: pain or irritation watering redness |
| Ingestion | No specific data. |

| | |
|-----------------------------------|--|
| Protection of first-aiders | No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. |
| Notes to physician | In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |

5. Fire-fighting measures

| | |
|---|---|
| Suitable extinguishing media | Use an extinguishing agent suitable for the surrounding fire. |
| Unsuitable extinguishing media | None known. |
| Specific hazards arising from the chemical | No specific fire or explosion hazard. |
| Special protective actions for fire-fighters | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| Special protective equipment for fire-fighters | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

| | |
|------------------------------------|---|
| For non-emergency personnel | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| For emergency responders | If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| Environmental precautions | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |

Methods and materials for containment and cleaning up

| | |
|--------------------|---|
| Small spill | Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. |
| Large spill | Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. |

7. Handling and storage

Handling

| | |
|---|--|
| Protective measures | Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. |
| Advice on general occupational hygiene | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |

Storage

| | |
|------------------------------------|--|
| Conditions for safe storage | Store between the following temperatures: 2 to 8°C (35.6 to 46.4°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |
|------------------------------------|--|

8. Exposure controls/personal protection

| | |
|--|--|
| Appropriate engineering controls | Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. |
| Occupational exposure limits | |
| <u>Biological exposure indices</u> | |
| No exposure indices known. | |
| <u>Individual protection measures</u> | |
| Respiratory protection | Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. |
| Hand protection | Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. |
| Eye protection | Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. |
| Skin protection | Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |

9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

| | |
|---|--|
| Physical state | Solid. |
| Color | White. to Off-white. to Light Orange. |
| Odor | Not available. |
| Odor threshold | Not available. |
| pH | 6 to 8 [Conc. (% w/w): 1%] |
| Melting point/freezing point | Not applicable. |
| Boiling point or initial boiling point and boiling range | Not applicable. |
| Flash point | [Product does not sustain combustion.] |
| Evaporation rate | Not available. |
| Flammability | Not available. |
| Lower and upper explosive (flammable) limits | Not applicable. |
| Vapor pressure | Not available. |
| Relative vapor density | Not applicable. |
| Relative density | Not available. |
| Solubility in water | Not available. |
| Partition coefficient: n-octanol/water | Not applicable. |
| Auto-ignition temperature | Not applicable. |
| Decomposition temperature | Not available. |
| Viscosity | Not applicable. |
| <u>Particle characteristics</u> | |
| Median particle size | Not available. |
| SADT | Not available. |
| Viscosity | Not applicable. |
| Flow time (ISO 2431) | Not available. |
| Burning rate | Not available. |
| Burning time | Not available. |

10. Stability and reactivity

| | |
|---|--|
| Reactivity | No specific test data related to reactivity available for this product or its ingredients. |
| Chemical stability | The product is stable. |
| Possibility of hazardous reactions | Under normal conditions of storage and use, hazardous reactions will not occur. |
| Conditions to avoid | No specific data. |
| Incompatible materials | No specific data. |
| Hazardous decomposition products | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

11. Toxicological information

Acute toxicity

| Product/ingredient name | Result |
|-------------------------|--|
| tyrosine | Rat - Oral - LD50 >5110 mg/kg |
| L-tryptophan | Rat - Oral - LD50 >16 g/kg <u>Toxic effects:</u> Eye - Ptosis Behavioral - Coma Changes in Chemistry or Temperature - Body temperature decrease |

Acute toxicity estimates

N/A

Skin corrosion/irritation

Not available.

Conclusion/Summary [Product] Not available.

| Ingredient name | Conclusion/Summary |
|-----------------|----------------------------|
| tyrosine | Causes skin irritation. |
| L-tryptophan | May cause skin irritation. |

Serious eye damage/eye irritation

| Product/ingredient name | Result |
|-------------------------|---|
| L-tryptophan | Rabbit - Eyes - Severe irritant <u>Amount/concentration applied:</u> 100 mg |

Conclusion/Summary [Product] Not available.

| Ingredient name | Conclusion/Summary |
|-----------------|--------------------------------|
| tyrosine | Causes serious eye irritation. |
| L-tryptophan | May cause eye irritation. |

Respiratory corrosion/irritation

Not available.

Conclusion/Summary [Product] Not available.

| Ingredient name | Conclusion/Summary |
|-----------------|-----------------------------------|
| tyrosine | May cause respiratory irritation. |

Respiratory or skin sensitization

Not available.

Skin

Conclusion/Summary [Product] Not available.

Respiratory

Conclusion/Summary [Product] Not available.

Germ cell mutagenicity

Not available.

Conclusion/Summary [Product] Not available.

Carcinogenicity

Not available.

Conclusion/Summary [Product] Not available.

Reproductive toxicity

Not available.

Conclusion/Summary [Product] Not available.

Specific target organ toxicity (single exposure)

| Product/ingredient name | Result |
|-------------------------|--------|
| tyrosine | - |

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

12. Ecological information

Toxicity

Not available.

Conclusion/Summary [Product] Not available.

| Ingredient name | Conclusion/Summary |
|-----------------|-------------------------------|
| tyrosine | Naturally occurring substance |
| L-tryptophan | Naturally occurring substance |

Persistence/degradability

Not available.

Conclusion/Summary [Product] Not available.

| Ingredient name | Conclusion/Summary |
|-----------------|--|
| tyrosine | Possibly hazardous, short-term degradation products are not likely. However, long-term degradation products may arise. |
| L-tryptophan | Not expected to bioaccumulate. Naturally occurring substance |

Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|-------------------------|--------------------|-----|-----------|
| tyrosine | -2.26 | - | Low |

Mobility in soil

| | |
|---|----------------|
| Soil/Water partition coefficient | Not available. |
| Mobility | Not available. |

Hazardous to the ozone layer Not applicable.

Other adverse effects No known significant effects or critical hazards.

13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

| | UN | IMDG | IATA |
|--|---|----------------|----------------|
| UN number | Not available. | Not available. | Not available. |
| UN proper shipping name | Not available. | Not available. | Not available. |
| Transport hazard class(es) | Not available. | Not available. | Not available. |
| Packing group | - | - | - |
| Environmental hazards | No. | No. | No. |
| Additional information | - | - | - |
| Special precautions for user | Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage. | | |
| Transport in bulk according to IMO instruments | Not available. | | |

15. Regulatory information

Fire Service Law

None of the components are listed.

Fire Service Law - Obstructive materials Not listed

Industrial Safety and Health Act

Not applicable.

Ordinance on the Prevention of the Hazard due to Specified Chemical Substances

None of the components are listed.

Organic solvents poisoning prevention Not applicable.

Substance(s) requiring labelling

Chemicals requiring notification

Chemical substances that cause skin disorders, etc. and other chemical substances that must be handled with impermeable protective equipment etc. based on special chemical regulations. (Article 594-2 Paragraph 1 of Ordinance on ISH)

None of the components are listed.

Carcinogens based on Article 577-2 of the Ordinance on ISH

None of the components are listed.

Mutagen

None of the components are listed.

Corrosive liquid Not listed

**ISHL Enforcement Order
Appendix 1 - Dangerous
Substances** Not applicable.

**Harmful Substances Subject
to Obtaining Permission for
Manufacturing** Not listed

**Harmful Substances,
Prohibited for Manufacturing** Not listed

Chemical Substances Control Law (CSCL)

None of the components are listed.

Poisonous and Deleterious Substances

None of the components are listed.

Pollutant Release and Transfer Registers (PRTR)

None of the components are listed.

JSOH Carcinogen Not listed

**Law concerning prevention of
pollution of the ocean** Not available.

Road law Not available.

**List of Specially Controlled
Industrial Waste** Not listed

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

International lists

National inventory

| | |
|-------------------------|---|
| Japan | Japan inventory (CSCL): All components are listed or exempted. Japan inventory (ISHL): Not determined. |
| United States | All components are active or exempted. |
| Canada inventory | All components are listed or exempted. |
| China | All components are listed or exempted. |

16. Other information

History

Date of printing 9/10/2025

Date of issue/Date of revision 9/10/2025

Date of previous issue 9/10/2025

Version 1

sds_author@cytiva.com

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available

Procedure used to derive the classification

| Classification | Justification |
|---|--------------------|
| SKIN IRRITATION - Category 2 | Calculation method |
| EYE IRRITATION - Category 2A | Calculation method |
| SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 | Calculation method |

References Not available.

 Indicates information that has changed from previously issued version.

Notice to reader

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