

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 SH31027.02KR

Product typeSolid.Original preparation date9/10/2025Date of issue/Date of revision9/10/2025

Date of previous issue No previous validation

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 Kremplstr. 5 4061 Pasching AUSTRIA

Tel. (+43) 7229 64865 Fax (+43) 7229 64866

グローバルライフサイエンステクノロジーズジャパン株式会社 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

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

HyClone Laboratories

Cytiva Singapore

1 Maritime Square #13-01

Harbourfront Centre Singapore 099253

Hazards identification

GHS Classification SKIN IRRITATION - Category 2

EYE IRRITATION - Category 2A

SPECIFIC TARGET ORĞAN 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

Article Number ²⁹¹⁸⁴¹⁶⁵ Page: 1/9

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(%)IdentifiersOfficial Gazette notice reference number
CSCLISHLtyrosine<48.25</td>60-18-49-1596Not available.

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.

Article Number ²⁹¹⁸⁴¹⁶⁵ Page: 2/9

Validation date 10 September 2025

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

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed Notes to physician

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

No action shall be taken involving any personal risk or without suitable training. Evacuate For non-emergency personnel

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.

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 For emergency responders

on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. **Environmental precautions**

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.

Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water Large spill

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

Article Number 29184165 Page: 3/9

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 **Biological exposure indices** No exposure indices known.

Individual protection measures

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.

Safety eyewear complying with an approved standard should be used when a risk assessment Eye protection

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

White. to Off-white. to Light Orange. Color

Odor Not available. Odor threshold Not available

6 to 8 [Conc. (% w/w): 1%]

Melting point/freezing point Boiling point or initial boiling point and boiling range

Not applicable. Not applicable.

Flash point [Product does not sustain combustion.]

Evaporation rate Not available. **Flammability** Not available. Lower and upper explosive Not applicable.

(flammable) limits

Vapor pressure Relative vapor density Not applicable. Relative density Not available. Solubility in water Not available

Partition coefficient: n-octanol/ water

Not applicable.

Not available.

Auto-ignition temperature **Decomposition temperature** Not applicable. Not available. Not applicable.

Particle characteristics

Viscosity

Not available. Median particle size SADT Not available. Viscosity Not applicable. Flow time (ISO 2431) Not available **Burning rate** Not available **Burning time** Not available

> Article Number 29184165 Page: 4/9

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

Under normal conditions of storage and use, hazardous reactions will not occur.

reactions

products

Conditions to avoid No specific data.

Incompatible materials No specific data.

Hazardous decomposition

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

Toxic effects: 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 nameConclusion/SummarytyrosineCauses skin irritation.L-tryptophanMay cause skin irritation.

Serious eye damage/eye irritation

Product/ingredient name Result

L-tryptophan Rabbit - Eyes - Severe irritant
Amount/concentration applied: 100 mg

Conclusion/Summary [Product] Not available.

Ingredient nameConclusion/SummarytyrosineCauses serious eye irritation.L-tryptophanMay 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.

Article Number ²⁹¹⁸⁴¹⁶⁵ Page: 5/9

Validation date 10 September 2025

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 Naturally occurring substance L-tryptophan

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.

Not expected to bioaccumulate. Naturally occurring substance L-tryptophan

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.

> Article Number 29184165 Page: 6/9

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.			

15. Regulatory information

Fire Service Law

IMO instruments

None of the components are listed.

Transport in bulk according to

Fire Service Law - Obstructive Not listed materials

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

Article Number ²⁹¹⁸⁴¹⁶⁵ Page: 7/9

Validation date 10 September 2025

ISHL Enforcement Order Appendix 1 - Dangerous

Substances

Harmful Substances Subject

: Not listed

to Obtaining Permission for Manufacturing

Harmful Substances,

Not listed

Not applicable.

Prohibited for Manufacturing

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

Law concerning prevention of pollution of the ocean

Not listed
Not available.

Not available.

Road law
List of Specially Controlled

Not listed

List of Specially Controlled Industrial Waste

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 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 No previous validation

Version

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

Article Number ²⁹¹⁸⁴¹⁶⁵ Page: 8/9

UN = United Nations

Procedure used to derive the classification

Classification Justification

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

References Not available.

_

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Article Number ²⁹¹⁸⁴¹⁶⁵ Page: 9/9