

# SAFETY DATA SHEET

China

Safety Data Sheet according to GB/T 16483-2008 and GB/T 17519-2013

Section 1. Identification

**GHS** product identifier

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

培养基

Catalogue Number SH31027.09CN

Other means of identification Not available.

Product type Solid.

#### 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's details

### Supplier/Manufacturer

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

Cytiva Singapore 1 Maritime Square #13-01 Harbourfront Centre Singapore 099253 HyClone Laboratories 925 West 1800 South Logan, Utah 84321 Phone: (435) 792-8000

## 24 hours response advisory service hotline

0532-83889090

## Section 2. Hazards identification

Classification of the substance or mixture according to GB 13690-2009 and GB 30000-2013

## **Emergency overview**

Solid.

White. to Off-white. to Light Orange.

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

IF INHALED: Call a POISON CENTER or doctor if you feel unwell. If skin irritation occurs: Get medical advice or attention. If eye irritation persists: Get medical advice or attention.

See Section 12 for environmental precautions.

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Classification of the substance

or mixture

SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) -

Category 3

#### **GHS label elements**



Signal word Warning

Hazard statements Causes skin irritation.

Causes serious eye irritation. May cause respiratory irritation.

**Precautionary statements** 

Storage

**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. 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.

Physical and chemical hazards No known significant effects or critical hazards.

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

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** Adverse symptoms may include the following:

pain or irritation watering redness

**Inhalation** Adverse symptoms may include the following:

respiratory tract irritation

coughing

**Skin contact** Adverse symptoms may include the following:

irritation redness

Ingestion No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects Not available.

Potential delayed effects Not available.

Long term exposure

Potential immediate effects Not available.

Potential delayed effects Not available.

**Environmental hazards** No known significant effects or critical hazards.

Other hazards which do not

result in classification

None known.

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## Section 3. Composition/information on ingredients

Substance/mixture Mixture

Other means of identification Not available.

Ingredient name%Identifierstyrosine<48.25</td>60-18-4

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

#### First aid

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

**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.

**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

**Eye contact** Causes serious eye irritation. **Inhalation** May cause respiratory irritation.

**Skin contact** Causes skin irritation.

**Ingestion** No known significant effects or critical hazards.

## Over-exposure signs/symptoms

**Eye contact** Adverse symptoms may include the following:

pain or irritation watering redness

**Inhalation** Adverse symptoms may include the following:

respiratory tract irritation

coughing

**Skin contact** Adverse symptoms may include the following:

irritation redness

Ingestion No specific data

## Indication of immediate medical attention and special treatment needed, if necessary

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.

**Specific treatments** No specific treatment.

**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.

See toxicological information (Section 11)

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## Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing media Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media None known.

Specific hazards arising from the No specific fire or explosion hazard.

chemical

Hazardous thermal decomposition products Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides sulfur oxides

fighters

Special protective actions for fire- 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.

#### Section 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.

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".

**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.

Precautionary measures to prevent the occurrence of secondary disasters

Prevent entry into sewers, water courses, basements or confined areas.

#### Section 7. Handling and storage

## Precautions for safe handling

Precautions for operating

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.

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 wellventilated 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.

### Section 8. Exposure controls/personal protection

#### **Control parameters**

## Occupational exposure limits

None.

### **Biological exposure indices**

No exposure indices known.

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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.

**Environmental exposure** 

ontrols

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Personal protective equipment

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face 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** 

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.

**Body 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.

Other skin protection

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.

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.

Not available.

Thermal hazards

## Section 9. Physical and chemical properties

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

#### Appearance and physical state

Physical state

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

Solid

Odor Not available.
Odor threshold Not available.

**pH** 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.]

Burning timeNot available.Burning rateNot available.Evaporation rateNot available.Flammability (solid, gas)Not available.Lower and upper explosiveNot applicable.

(flammable) limits

Vapor pressureNot available.Relative vapor densityNot applicable.Relative densityNot available.Solubility in waterNot available.Partition coefficient: n-octanol/Not applicable.

water

Auto-ignition temperature
Decomposition temperature
SADT
Not available.
Viscosity
Not applicable.
Not applicable.
Not available.
Not applicable.
Not available.

Particle characteristics

Median particle size Not available.

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## Section 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.

## Section 11. Toxicological information

#### Information on toxicological effects

**Acute toxicity** 

Product/ingredient nameResulttyrosineRat - Oral - LD50>5110 mg/kgL-tryptophanRat - Oral - LD50

>16 g/kg

Toxic effects: Eye - Ptosis Behavioral - Coma Changes in Chemistry or

Temperature - Body temperature decrease

Conclusion/Summary

[Product]

Not available.

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

L-tryptophan

Result

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

Not available.

[Product]

Ingredient nameConclusion/SummarytyrosineMay cause respiratory irritation.

### Respiratory or skin sensitization

Not available.

Skin

Conclusion/Summary

[Product]

Not available.

## Respiratory

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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.

Information on the likely routes

of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

#### Potential acute health effects

Eye contactCauses serious eye irritation.InhalationMay cause respiratory irritation.

**Skin contact** Causes skin irritation.

**Ingestion** No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact Adverse symptoms may include the following: pain or irritation

watering redness

**Inhalation** Adverse symptoms may include the following:

respiratory tract irritation

coughing

**Skin contact** Adverse symptoms may include the following:

irritation redness

Ingestion No specific data.

## Delayed and immediate effects and also chronic effects from short and long term exposure

## Short term exposure

Potential immediate effects Not available.

Potential delayed effects Not available.

Long term exposure

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Potential immediate effects Not available. Not available. Potential delayed effects

Potential chronic health effects

Not available.

General No known significant effects or critical hazards. Carcinogenicity No known significant effects or critical hazards. Mutagenicity No known significant effects or critical hazards. Reproductive toxicity No known significant effects or critical hazards.

**Numerical measures of toxicity Acute toxicity estimates** 

N/A

## Section 12. Ecological information

#### **Toxicity**

Not available.

Conclusion/Summary

[Product]

Not available

Ingredient name tyrosine L-tryptophan

Conclusion/Summary Naturally occurring substance 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

Bioaccumulation/Accumulation

Product/ingredient name LogPow **BCF Potential** tyrosine -2.26 Low

**Mobility in soil** 

name

Soil/Water partition coefficient Not available.

Other adverse effects No known significant effects or critical hazards.

## Section 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.

## Section 14. Transport information

**GB12268** JT/T617 **IMDG** IATA **UN** number Not available. Not available. Not available. Not available. **UN proper shipping** Not available. Not available. Not available Not available.

Not available. Not available. Not available. Not available.

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Transport hazard class(es)

Packing group - - - - -

Environmental No. No. No. No.

hazards

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.

**Extinguishing media** 

Unsuitable extinguishing

media

None known.

Incompatible materials No specific data

Transport in bulk according to Not available.

**IMO** instruments

## Section 15. Regulatory information

#### **List of Goods banned for Importing**

None of the components are listed.

#### **Drug Precursors Requiring an Import/Export License**

None of the components are listed.

#### **Inventory of Hazardous Chemicals**

None of the components are listed.

## **List of Explosive Precursors**

None of the components are listed.

## **List of Goods banned for Exporting**

None of the components are listed.

### List of Toxic Chemicals Severely Restricted for Importing & Exporting by China

None of the components are listed.

## Catalogue and classification of drug precursor chemicals

None of the components are listed.

### **Inventory of Highly Toxic Articles**

None of the components are listed.

## **Catalogue of Hazardous Chemicals of Priority Management**

None of the components are listed.

#### Catalogue of Occupational Disease Hazard Factors - Dust

None of the components are listed.

## Catalogue of Occupational Disease Hazard Factors - Chemical Factors

None of the components are 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)

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Not listed

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

#### **Inventory list**

China All components are listed or exempted. **United States** All components are active or exempted. Canada inventory All components are listed or exempted.

Japan inventory (CSCL): All components are listed or exempted. Japan

Japan inventory (ISHL): Not determined.

## Section 16. Other information

#### **History**

Date of printing 10 September 2025. 10 September 2025. Date of issue/Date of revision Date of previous issue No previous validation.

Version

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Key to abbreviations 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 UN = United Nations

#### Procedure used to derive the classification

Classification Justification

SKIN CORROSION/IRRITATION - Category 2 Calculation method SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A Calculation method SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) Calculation method

(Respiratory tract irritation) - Category 3

Not available.

Indicates information that has changed from previously issued version.

## Notice to reader

exist

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

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