

# **SAFETY DATA SHEET**

**United States** 

Section 1. Identification

**Product name** 

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

Catalogue Number

SH31027.05CN

Other means of identification

Product type

Not available.

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 / Manufacturer

Cytiva Austria Kremplstr. 5 4061 Pasching AUSTRIA

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In case of emergency

INFOTRAC - 24 Hour number: 1-800-535-5053

Outside of the United States, call 24 Hour number: 001-352-323-3500 (Call Collect)

Section 2. Hazards identification

OSHA/HCS status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR

1910.1200).

Classification of the substance

or mixture

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

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#### Hazard pictograms



Signal word Warning

**Hazard statements** Causes skin irritation. Causes serious eye irritation.

May cause respiratory irritation.

**Precautionary statements** 

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. None known.

Hazards not otherwise

classified

Inhalation

Storage

Hazards identified when used

No known significant effects or critical hazards.

# Section 3. Composition/information on ingredients

Substance/mixture Mixture Other means of identification Not available.

Ingredient name **Synonyms** % Identifiers ≥25 - ≤50 60-18-4 tyrosine

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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

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

### Section 4. First aid measures

### Description of necessary first aid measures

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. 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.

Wash out mouth with water. Remove dentures if any. If material has been swallowed and the Ingestion

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

Article Number: 29180145 Page: 2/10 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)

# 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 chemical

No specific fire or explosion hazard.

Hazardous thermal

Decomposition products may include the following materials: carbon dioxide

decomposition products

carbon monoxide nitrogen oxides sulfur oxides

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.

### Section 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".

**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.

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.

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# Section 7. Handling and storage

#### Precautions for safe 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.

Conditions for safe storage, including any incompatibilities

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.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limitsIngredient nameExposure limitstyrosineNoneL-tryptophanNone

Biological exposure indices

No exposure indices known.

Appropriate engineering

controls

Environmental exposure 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.

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.

Individual protection measures

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.

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# Section 9. Physical and chemical properties

**Appearance** 

Physical state

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

Not available. Odor Not available. Odor threshold

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

(flammable) limits

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. SADT Not available. Viscosity Not applicable. Flow time (ISO 2431) Not available.

Particle characteristics

Median particle size Not available.

# 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** 

L-tryptophan

Product/ingredient name Result

tyrosine Rat - Oral - LD50

>5110 mg/kg Rat - 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

Not available.

[Product] Ingredient name

Conclusion/Summary

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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

Amount/concentration applied: 100 mg

Conclusion/Summary

[Product]

Not available.

Ingredient name tyrosine L-tryptophan

Conclusion/Summary Causes serious eye irritation. May cause eye irritation.

Respiratory corrosion/irritation

Not available.

Conclusion/Summary

[Product]

Not available.

Ingredient name tyrosine

Conclusion/Summary 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** 

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Not available.

Information on the likely routes

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

of exposure

Potential acute health effects

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

watering

**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.

#### Potential chronic health effects

Not available.

Conclusion/Summary

[Product]

Not available.

GeneralNo known significant effects or critical hazards.CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.Reproductive toxicityNo known significant effects or critical hazards.

### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

N/A

# Section 12. Ecological information

### **Toxicity**

Not available.

Conclusion/Summary

Not available.

[Product]

Ingredient nameConclusion/SummarytyrosineNaturally occurring substanceL-tryptophanNaturally occurring substance

#### Persistence and degradability

Not available.

L-tryptophan

Ingredient name tyrosine

Conclusion/Summary

Possibly hazardous, short-term degradation products are not likely.

However, long-term degradation products may arise.

Not expected to bioaccumulate. Naturally occurring substance

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**Bioaccumulative potential** 

Product/ingredient nameLogPowBCFPotentialtyrosine-2.26-Low

Mobility in soil

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

	DOT Classification	TDG Classification	Mexico Classification
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	-	-	-
	ADR/RID	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.

No.

Special precautions for user

**Additional information** 

**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

No.

spillage.

Transport in bulk according to

**IMO** instruments

Packing group Environmental hazards

Not available.

Proper shipping name

No.

ng name Not available

# Section 15. Regulatory information

U.S. Federal regulations TSCA 8(a) CDR Exempt/Partial exemption: Not determined

# TSCA 12(b) - Chemical export notification

Not applicable.

Clean Air Act Section 112(b) Hazardous Air Pollutants

Not listed

(HAPs)

Clean Air Act Section 602 Class I Substances
Clean Air Act Section 602 Class II Substances
DEA List I Chemicals (Precursor Chemicals)
Not listed
DEA List II Chemicals (Essential Chemicals)
Not listed

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#### Composition/information on ingredients

No products were found.

SARA 304 RQ Not applicable.

**SARA 311/312** 

Classification SKIN IRRITATION - Category 2

EYE IRRITATION - Category 2A

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

Category 3

Composition/information on ingredients

Name Classification

tyrosine <48.25 SKIN IRRITATION - Category 2

EYE IRRITATION - Category 2A

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

(Respiratory tract irritation) - Category 3

State regulations

Massachusetts None of the components are listed. **New York** None of the components are listed. **New Jersey** None of the components are listed. Pennsylvania None of the components are listed.

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

#### **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.

#### Inventory list

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

## Section 16. Other information

#### National Fire Protection Association (U.S.A.)



# Procedure used to derive the classification

Classification Justification

Calculation method

Calculation method

Calculation method

SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

(Respiratory tract irritation) - Category 3

**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

Article Number: 29180145 Page: 9/10 **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

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

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