



SAFETY DATA SHEET

Republic of Korea

In accordance with the Standard for Classification and Labeling of Chemical Substance and Safety Data Sheet, Article 10 Paragraph 1

Section 1. Chemical product and company identification

A. Product name HyCell TransFx-H™

> Without L-Glutamine Without Poloxamer 188

Catalogue Number SH30939.06

29761268 Article Number

Recommended use of the chemical

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

Restrictions on use

Uses advised against

C.

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

Cytiva Singapore 1 Maritime Square #13-01

Distributor 유통업자 글로벌 라이프 사이언스 솔루션즈 코리아 유한회사 BRC BLDG., 2동 2층 송도미래로 9, 연수구

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Harbourfront Centre Singapore 099253

Emergency telephone number (with hours of operation)

+82-2-3478-4584 (9.00 am - 6.00 pm)

Section 2. Hazards identification

Hazard classification Not classified.

This product was evaluated in accordance with the Industrial Safety and Health Act and the

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Chemical Control Act, and determined to be 'not classified'.

B. GHS label elements, including precautionary statements

Signal word No signal word.

Hazard statements No known significant effects or critical hazards.

Precautionary statements

Prevention Not applicable. Response Not applicable. Storage Not applicable. Disposal Not applicable. C. Other hazards which do None known.

not result in classification

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Section 3. Composition/information on ingredients

Substance/mixture Other means of identification Not available

There are no 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

Eye contact Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check

for and remove any contact lenses. Get medical attention if irritation occurs.

Skin contact Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical

attention if symptoms occur.

Ingestion Wash out mouth with water. If material has been swallowed and the exposed person is conscious,

give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical

personnel. Get medical attention if symptoms occur.

Notes to physician Treat symptomatically. Contact poison treatment specialist immediately if large quantities have

been ingested or inhaled.

No specific treatment. Specific treatments

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable Use an extinguishing agent suitable for the surrounding fire.

Not suitable None known.

Specific hazards arising from the chemical

In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products No specific data.

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.

Special precautions for firefighters

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.

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 surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

B. 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).

C. Methods and materials for containment and cleaning up

Small spill Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in

an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses,

basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in

container for disposal according to local regulations.

Section 7. Handling and storage

A. Precautions for safe handling

Protective measures 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.

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.

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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 wellventilated area, away from incompatible materials (see Section 10) and food and drink. 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

A. Control parameters

Occupational exposure limits

None.

Biological exposure indices

No exposure indices known.

B. Appropriate engineering controls

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure

controls

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

Based on the hazard and potential for exposure, select a respirator that meets the appropriate Respiratory protection

standard or certification. Respirators must be used according to a respiratory protection program to

ensure proper fitting, training, and other important aspects of use.

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: safety glasses with side-shields.

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.

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.

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.

Section 9. Physical and chemical properties

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

Appearance

Physical state Liquid.

Color Clear. Yellowish. Not available. Odor Odor threshold Not available. 7 to 7.4 D. pH Not available. E. Melting/freezing point Not available

Boiling point or initial boiling point and boiling

range

I.

G. Flash point Not available

Fire point Not available. **Burning time** Not applicable. **Burning rate** Not applicable. H. Evaporation rate Not available. Flammability (solid, gas) Not available.

Lower and upper explosive (flammable) limits

Not available.

K. Vapor pressure Not available

> Vapor Pressure at 20°C Vapor pressure at 50°C Ingredient name mm Hg kPa Method kPa Method mm Hg

Article Number 29761268 Page: 3/9 water 17.5 2.3

Solubility in water L. Not available. Μ. Vapor density Not available. Not available. N. Relative density Partition coefficient: n-Not applicable.

octanol/water

P. Auto-ignition temperature Q. Decomposition

Not available. Not available.

temperature

Not available.

SADT R. Viscosity

Dynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): Not available.

Flow time (ISO 2431) Not available. Molecular weight Not applicable.

Particle characteristics

Median particle size Not applicable.

Section 10. Stability and reactivity

A. Chemical stability

Possibility of hazardous

reactions

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

B. Conditions to avoid No specific data. Incompatible materials No specific data

D. Hazardous decomposition

products

Under normal conditions of storage and use, hazardous decomposition products should not be

produced.

Section 11. Toxicological information

Information on the likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Eyes.

Potential acute health effects

Respiratory No known significant effects or critical hazards. Oral No known significant effects or critical hazards. Skin No known significant effects or critical hazards. Eyes No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation No specific data. Ingestion No specific data. Skin contact No specific data. Eye contact No specific data.

B. Health hazards

Acute toxicity

Not available.

Conclusion/Summary

[Product]

Not available.

Skin corrosion/irritation

Not available.

Conclusion/Summary

[Product]

Not available.

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Serious eye damage/eye irritation

Not available.

Conclusion/Summary

[Product]

Not available.

Respiratory corrosion/irritation

Not available.

Conclusion/Summary

[Product]

Not available.

Respiratory or skin sensitization

Not available.

Skin

Conclusion/Summary

[Product]

Not available.

Respiratory

Conclusion/Summary

[Product]

Not available.

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)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Potential chronic health effects

Not available.

Conclusion/Summary

[Product]

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.

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Numerical measures of toxicity

Acute toxicity estimates

N/A

Section 12. Ecological information

A. **Ecotoxicity**

Not available.

Conclusion/Summary

[Product]

Not available.

B. Persistence/degradability

Not available.

Conclusion/Summary

[Product]

Not available.

C. Bioaccumulative potential

Not available.

Mobility in soil

Soil/Water partition coefficient Not available.

Other adverse effects

No known significant effects or critical hazards.

Section 13. Disposal considerations

A. 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.

B. Disposal precautions

This material and its container must be disposed of in a safe way. 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

UN number Not available. Not available. B. Proper shipping name Not available. Classes Not available. Packing group

Marine pollutant Nο Additional information

Label

IMDG

UN number Not available. Proper shipping name Not available. Not available. Packing group Not available.

Marine pollutant **Additional information**

Label

IATA

UN number Not available. Not available. Proper shipping name B. Not available Classes D. Packing group Not available.

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E. Marine pollutant

Nο

Additional information

Label

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.

Section 15. Regulatory information

A. Regulation according to ISHA

ISHA article 117 (Harmful substances prohibited from manufacture)

None of the components are listed.

ISHA article 118 (Harmful substances requiring permission)

None of the components are listed.

Exposure Limits of Chemical Substances and Physical Factors

None of the components have an OEL.

ISHA Enforcement Regs Annex 19 (Exposure standards established for harmful factors)

The following components are listed: cobalt and its inorganic compounds, manganese and its

inorganic compounds, Cadmium and its compounds

ISHA Enforcement Regs Annex 21 (Harmful factors subject to Work Environment Measurement)

None of the components are listed.

ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health

None of the components are listed.

Check-up) Standard of Industrial Safety and Health Annex 12 (Hazardous substances

subject to control)

None of the components are listed.

B. Regulation according to Chemicals Control Act

Article 11 (TRI) None of the components are listed. Article 18 Prohibited (K-Reach

None of the components are listed.

Article 27)

Article 19 Candidate

None of the components are listed.

substances subject to authorization (K-Reach Article

None of the components are listed.

Article 19 Subject to

authorization (K-Reach Article

Article 20 Toxic Chemicals (K-

Reach Article 20)

Article 20 Restricted (K-Reach None of the components are listed.

Article 27)

Article 39 (Accident Precaution Chemicals)

MoE 2021-51 - Regulations on the quantity of toxic substances, restricted substances, prohibited substances and permitted substances

Higher regulated quantity Lower regulated quantity Ingredient name

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inorganic zinc, salts	400 tonnes	20 tonnes
acetic acid	400 tonnes	20 tonnes
2-Methyl-1,4-naphthalenedione	400 tonnes	20 tonnes
selenium compounds	200 tonnes	5 tonnes
Ergocalciferol	400 tonnes	20 tonnes
cadmium compounds	400 tonnes	20 tonnes
inorganic tin, salts	-	20 tonnes

Existing Chemical Substances Subject to

The following components are listed: Sulfuric acid, zinc salt (1:1), heptahydrate, Cadmium chloride,

hydrate (2:5), Tin chloride (SnCl2), dihydrate

Registration

C. Dangerous Materials Not ap Safety Management Act

Not applicable.

D. Wastes regulation Dispose of contents and container in accordance with all local, regional, national and international

regulations

E. Regulation according to other foreign laws

Article 2 of Youth Protection Act on Substances Hazardous Not applicable.

to Youth

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

Republic of Korea Not determined.
United States Not determined.

China At least one component is not listed.

Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): Not determined.

Section 16. Other information

A. References

B. First issue date 16 September 2025

C. Date of issue/Date of

16 September 2025 / 16 September 2025

revision

Version 1

Date of printing 16 September 2025

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E. Other

D.

▼ Indicates information that has changed from previously issued version.

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

Notice to reader

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SH30939.06

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.

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