

# **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

Kremplstr. 5

AUSTRIA

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Section 1. Chemical product and company identification

A. Product name HyClone™ Advance STEM Adipogenic

**Differentiation Medium** 

**Catalogue Number** SH30886

**Article Number** SH30886

#### B. Recommended use of the chemical

#### Restrictions on use

### Uses advised against

Not applicable.

C.

Manufacturer HyClone Laboratories 925 West 1800 South Supplier Logan, Utah 84321

Phone: (435) 792-8000

Cytiva Singapore 1 Maritime Square #13-01 Harbourfront Centre

Singapore 099253

Distributor 유통업자 글로벌 라이프 사이언스 솔루션즈 코리아 유한회사

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대한민국 +82 2 6201 3800

Emergency telephone number (with hours of operation)

82-2-6201-3800 (9.00 am - 6.00 pm)

Section 2. Hazards identification

Hazard classification 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. None known.

C. Other hazards which do

not result in classification

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## Section 3. Composition/information on ingredients

Substance/mixture Mixture Other means of identification Not available

**CAS number/other identifiers** 

**CAS** number

EC number Mixture **Product code** SH30886

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

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

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 C.

attention if symptoms occur.

Ingestion Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable

> for breathing. 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

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

been ingested or inhaled.

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

#### A. Extinguishing media

Suitable Use an extinguishing agent suitable for the surrounding fire.

Not suitable

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 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.

## 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.

**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. Dilute with water and mop up if water-

soluble. Alternatively, or if water-insoluble, absorb with an inert dry 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. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). 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

### 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.

Conditions for safe storage, including any incompatibilities

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. 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.

## Section 8. Exposure controls/personal protection

### **Control parameters**

### Occupational exposure limits

None

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.

#### C. Personal protective equipment

Respiratory protection Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk

assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected

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.

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all Hand protection

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

### A. Appearance

Physical state Liquid.

Color Clear, Reddish Odor Not available. Odor threshold Not available. C. D. рΗ 7.8 to 8.2 Melting/freezing point E. Not available. Boiling point/boiling range F. Not available.

G. Flash point Fire point

I.

**Burning time** Not applicable. **Burning rate** Not applicable. H. Evaporation rate Not available

Flammability (solid, gas) Lower and upper explosive (flammable) limits

Not available Not available

Not available.

Vapor pressure Not available Solubility Not available

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Solubility in water Not available. M. Vapor density Not available. Relative density Not available

Partition coefficient: n-

octanol/water

Not available.

P. Auto-ignition temperature Not available. Decomposition Not available. temperature

SADT Not available. R. Viscosity Not available.

Flow time (ISO 2431)

Molecular weight Not applicable.

## Section 10. Stability and reactivity

A. Chemical stability The product is stable.

Possibility of hazardous

reactions

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

B. Conditions to avoid No specific data. C. 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

## A. Information on the likely routes of exposure

Routes of entry anticipated: Oral, Dermal.

#### 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. Eve contact No specific data.

## B. Health hazards

#### **Acute toxicity**

Not available.

## Irritation/Corrosion

Not available.

### **Sensitization**

Not available.

## CMR - ISHA Article 42 Public Notice No 2016-41 Occupational Exposure Limits

Not available.

#### **Mutagenicity**

Not available.

## Carcinogenicity

Not available.

### Reproductive toxicity

Not available.

## **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

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Not available

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

#### Potential chronic health effects

#### **Chronic toxicity**

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.

Teratogenicity

No known significant effects or critical hazards.

Developmental effects

No known significant effects or critical hazards.

Fertility effects

No known significant effects or critical hazards.

ATE value N/A

## Section 12. Ecological information

### A. **Ecotoxicity**

Not available.

#### B. Persistence/degradability

Not available.

#### C. Bioaccumulative potential

Not available.

#### D. Mobility in soil

Soil/water partition coefficient Not available.

(Koc)

E. 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

- A. UN number
- B. Proper shipping name
- C. Classes
- D. Packing group
- E. Marine pollutant No.
- F. Additional information -

Label

#### **IMDG**

- A. UN number
- B. Proper shipping name
- C. Classes
- D. Packing group
- E. Marine pollutant No.
- F. Additional information

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#### Label

#### <u>IATA</u>

- **UN** number A.
- В. Proper shipping name
- C. Classes
- D. Packing group
- E. Marine pollutant No.
- F. 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 Annex II of MARPOL and the **IBC Code** 

Not available.

# Section 15. Regulatory information

## A. Regulation according to ISHA

ISHA article 37 (Harmful substances prohibited from manufacture)

None of the components are listed.

ISHA article 38 (Harmful substances requiring permission)

None of the components are listed.

**Exposure Limits of Chemical Substances and Physical Factors** 

ISHA Enforcement Regs Annex 11-3 (Exposure standards established for harmful factors)

**ISHA Enforcement Regs** Annex 11-5 (Harmful factors subject to Work Environment Measurement)

**ISHA Enforcement Regs** Annex 12-2 (Harmful Factors Subject to Special Health Check-up)

Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)

## B. Regulation according to Chemicals Control Act

CCA Article 11 (TRI) None of the components are listed.

CCA Article 18 Prohibited (K-Reach Article 27)

None of the components are listed.

CCA Article 19 Subject to authorization (K-Reach Article 25)

**CCA Article 20 Toxic** Chemicals (K-Reach Article Not applicable

CCA Article 20 Restricted (K-

Reach Article 27)

None of the components are listed.

CCA Article 39 (Accident **Precaution Chemicals**)

**Existing Chemical** Substances Subject to Registration

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Dangerous Materials

Safety Management Act

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

regulations

Not available

#### E. Regulation according to other foreign laws

**Article 2 of Youth Protection** Act on Substances Hazardous

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 Not determined **Europe United States** Not determined China Not determined. Japan Not determined.

## Section 16. Other information

A. References Not available. B. Date of issue/Date of

revision

16 September 2015

C.

Version

Date of printing 21 April 2020

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D. Other

## Indicates information that has changed from previously issued version.

ATE = Acute Toxicity Estimate Key to abbreviations

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

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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