

# **SAFETY DATA SHEET**

**United States** 

Section 1. Identification

**Product name** 

**Bovine Calf Serum** 

**Catalogue Number** 

SH30073

Other means of identification

Product type Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Not available.

Not available. Not applicable.

Supplier / Manufacturer

Cytiva Austria Kremplstr. 5 4061 Pasching **AUSTRIA** 

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HP7 9NA United Kingdom

Cytiva USA 100 Results Way Marlborough, MA 01752 1-800-526-3593

**HyClone Laboratories** 

925 West 1800 South

Logan, Utah 84321 Phone: (435) 792-8000

In case of emergency

ChemTrec US (available 24/7) 1-800-424-9300

Section 2. Hazards identification

**OSHA/HCS** status While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use

of the product. This SDS should be retained and available for employees and other users of this

product.

Cytiva

Amersham Place

+44 0800 515 313

Little Chalfont Buckinghamshire

Classification of the substance

or mixture

Not classified.

**GHS label elements** 

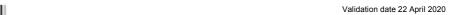
Signal word No signal word.

**Hazard statements** No known significant effects or critical hazards.

**Precautionary statements** 

Prevention Not applicable. Response Not applicable. Storage Not applicable.

> Article Number: SH30073 Page: 1/8





Disposal Hazards not otherwise

classified

Not applicable. None known.

### Section 3. Composition/information on ingredients

Substance Substance/mixture Other means of identification Not available.

**CAS** number/other identifiers

Not available CAS number

Ingredient name % **CAS** number

100 **Bovine Calf Serum** 

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 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

#### **Description of necessary first aid measures**

Eve 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.

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

attention if symptoms occur.

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

medical 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.

### Most important symptoms/effects, acute and delayed

### Potential acute health effects

No known significant effects or critical hazards. Eve contact Inhalation No known significant effects or critical hazards. Skin contact No known significant effects or critical hazards. Ingestion No known significant effects or critical hazards.

### Over-exposure signs/symptoms

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

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

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

been ingested or inhaled. No specific treatment.

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**

Specific treatments

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

Unsuitable extinguishing

media

None known

Specific hazards arising from

the chemical

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

decomposition products

Hazardous thermal

No specific data.

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.

Article Number: SH30073 Page: 2/8

### 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. Put on appropriate personal protective equipment.

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

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 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.

### Section 7. Handling and storage

### Precautions for safe handling

**Environmental precautions** 

Protective measures Put on appropriate personal protective equipment (see Section 8).

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

Do not store above the following temperature: -10°C (14°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. 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

Bovine Calf Serum

Appropriate engineering

controls

controls

Cood general ventilation shou

Environmental exposure

re

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

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: safety glasses with side-shields.

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.

**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.

Article Number: SH30073 Page: 3/8



Validation date 22 April 2020

# Section 9. Physical and chemical properties

### **Appearance**

Physical state Liquid. Not available. Color Not available. Odor Not available. **Odor threshold** рΗ Not available. Not available. **Melting point** Not available. **Boiling point** Flash point Not available. **Burning time** Not applicable. Not applicable. **Burning rate** Not available. **Evaporation rate** Flammability (solid, gas) Not available. Lower and upper explosive Not available.

(flammable) limits

Vapor pressure
Not available.
Vapor density
Relative density
Solubility
Not available.
Not available.
Not available.
Not available.
Partition coefficient: n-octanol/
Not available.

water

Auto-ignition temperature

Decomposition temperature

SADT

Viscosity

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Aerosol product

### 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.

Incompatible materials

No specific data.

Hazardous decomposition

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

**products** produced

# Section 11. Toxicological information

### Information on toxicological effects

### Acute toxicity

Not available.

### Irritation/Corrosion

Not available.

### **Sensitization**

Not available.

### **Mutagenicity**

Not available.

#### Carcinogenicity

Not available.

### Reproductive toxicity

Not available.

### **Teratogenicity**

Not available.

### Specific target organ toxicity (single exposure)

Article Number: SH30073 Page: 4/8



Not available

### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

Information on the likely routes

Routes of entry anticipated: Oral, Dermal.

of exposure

#### Potential acute health effects

Eye contactNo known significant effects or critical hazards.InhalationNo known significant effects or critical hazards.Skin contactNo known significant effects or critical hazards.IngestionNo known significant effects or critical hazards.

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

Eye contactNo specific data.InhalationNo specific data.Skin contactNo specific data.IngestionNo 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.

GeneralNo known significant effects or critical hazards.CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.TeratogenicityNo known significant effects or critical hazards.Developmental effectsNo known significant effects or critical hazards.Fertility effectsNo known significant effects or critical hazards.

### **Numerical measures of toxicity**

#### Acute toxicity estimates

N/A

## Section 12. Ecological information

### **Toxicity**

Not available.

### Persistence and degradability

Not available.

### **Bioaccumulative potential**

Not available.

#### **Mobility in soil**

Soil/water partition coefficient (K Not available.

oc)

Other adverse effects No known significant effects or critical hazards.

Article Number: SH30073 Page: 5/8



### 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. 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.
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-
Special precautions for user	Transport within user's pren	nises: always transport in closed o	containers that are unright and

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.

Proper shipping name Not available. Ship type Not available. Pollution category Not available

### Section 15. Regulatory information

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

Clean Air Act Section 112(b) Hazardous Air Pollutants Not listed

(HAPs)

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

### SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ Not applicable.

**SARA 311/312** 

Classification Not applicable.

Composition/information on ingredients

No products were found.

Article Number: SH30073 Page: 6/8

#### State regulations

MassachusettsNone of the components are listed.New YorkNone of the components are listed.New JerseyNone of the components are listed.PennsylvaniaNone 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 Not determined.

Europe Not determined.

Canada inventory Not determined.

### Section 16. Other information

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



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### Procedure used to derive the classification

Classification Justification

Not classified.

#### **History**

Date of printing4/22/2020Date of issue/Date of revision4/22/2020Date of previous issue10/29/2015

Version 1

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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

References Not available.

Indicates information that has changed from previously issued version.

Article Number: SH30073 Page: 7/8

### 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: SH30073 Page: 8/8