



Material Safety Data Sheet

Creation Date 19-Oct-2009

Revision Date 11-Dec-2014

Revision Number 5

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	CELL CULTURE MEDIA ANIMAL DERIVED COMPONENT FREE (ADCF) - LIQUID
Cat No. :	SH30018, SH30019, SH30021, SH30023, SH30024, SH30025, SH30026, SH30027, SH30091, SH30096, SH30126, SH30138, SH30157, SH30200, SH30203, SH30228, SH30234, SH30244, SH30255, SH30259, SH30261, SH30262, SH30265, SH30271, SH30272, SH30275, SH30285, SH30315, SH30316, SH30317, SH30318, SH30319, SH30320, SH30338, SH30349, SH30525, SH30526, SH30547, SH30850, SH30851, SH30852, SH30853, SH30871, SH3A2268, SH3A2318, SH3A2678, SR30004

Synonyms	No information available
Recommended Use	In vitro methods
Company HyClone Laboratories, Inc. 925 West 1800 South Logan, UT 84321 United States Tel: (435) 792-8000	Emergency Telephone Number INFOTRAC - 24 Hour Number: 1-800-535-5053 Outside of the United States, call 24 Hour Number: 001-352-323-3500 (Call Collect)
European Supplier: Bio-Sciences Austria GmbH Krempstr.5 4060 Pasching, Austria Tel: +43 7229 64865	

2. HAZARDS IDENTIFICATION

CAUTION	Emergency Overview Handle in accordance with good industrial hygiene and safety practice. May cause eye, skin, and respiratory tract irritation. The toxicological properties have not been fully investigated.	Odor Characteristic
Appearance Clear, Light yellow, Light red, Pink, Cloudy, White to off-white	Physical State Liquid	

Target Organs None known

Potential Health Effects

Acute Effects

Principle Routes of Exposure

Eyes	May cause irritation.
Skin	May cause irritation.
Inhalation	May cause irritation of respiratory tract.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Effects	None known
------------------------	------------

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions	No information available.
--------------------------------------	---------------------------

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Inorganic Salts	NA	</= 90
Process water	7732-18-5	>/= 35
Vitamins	NA	</= 15
Amino Acids	NA	</= 10
Standard Cell Culture Media	NA	</= 10

4. FIRST AID MEASURES

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur.
Ingestion	Do not induce vomiting. Obtain medical attention.
Notes to Physician	Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flash Point Method -	Not applicable No information available
Autoignition Temperature	No information available
Explosion Limits	
Upper	No data available
Lower	No data available
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable Extinguishing Media	No information available
Hazardous Combustion Products	No information available.
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical
None known.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA	Health 1	Flammability 0	Instability 0	Physical hazards N/A
-------------	-----------------	-----------------------	----------------------	-----------------------------

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

Environmental Precautions Should not be released into the environment.

Methods for Containment and Clean Up Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling Wear personal protective equipment. Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State

Liquid

Appearance

Clear, Light yellow, Light red, Pink, Cloudy, White to off-white

Odor

Characteristic

Odor Threshold

No information available

pH

Not applicable

Vapor Pressure	No information available
Vapor Density	No information available
Viscosity	No information available
Boiling Point/Range	Not applicable
Melting Point/Range	No data available
Decomposition Temperature	No information available
Flash Point	Not applicable
Evaporation Rate	No information available
Specific Gravity	No information available
Solubility	No information available
log Pow	No data available

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to Avoid	Excess heat.
Incompatible Materials	None known
Hazardous Decomposition Products	None known
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information	No acute toxicity information is available for this product
----------------------------	---

Component Information

Irritation	No information available
Toxicologically Synergistic Products	No information available

Chronic Toxicity

Carcinogenicity	There are no known carcinogenic chemicals in this product.
------------------------	--

Sensitization	No information available
----------------------	--------------------------

Mutagenic Effects	No information available
--------------------------	--------------------------

Reproductive Effects	No information available.
-----------------------------	---------------------------

Developmental Effects	No information available.
------------------------------	---------------------------

Teratogenicity	No information available.
-----------------------	---------------------------

Other Adverse Effects	The toxicological properties have not been fully investigated.
------------------------------	--

Endocrine Disruptor Information	No information available
--	--------------------------

12. ECOLOGICAL INFORMATION

Ecotoxicity

Do not empty into drains.

Persistence and Degradability No information available.

Bioaccumulation/ Accumulation No information available.

Mobility No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Process water	X	X	-	231-791-2	-		X	-	X	X	X

Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B)).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313

Not applicable

SARA 311/312 Hazardous Categorization

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

Not applicable

Clean Air Act

Not applicable

OSHA Occupational Safety and Health Administration

Not applicable

CERCLA

Not applicable

California Proposition 65

This product does not contain any Proposition 65 chemicals

State Right-to-Know

Not applicable

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Process water	-	-	X	-	-

U.S. Department of Transportation

Reportable Quantity (RQ): N

DOT Marine Pollutant N

DOT Severe Marine Pollutant N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class
Non-controlled

16. OTHER INFORMATION

Prepared By Environmental, Health and Safety
GE Healthcare Life Sciences
HyClone Cell Culture
Tel: (435) 792-8000
brucebastian@ge.com

Creation Date 19-Oct-2009

Print Date 11-Dec-2014

Revision Summary

"****", and red text indicates revision

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS