# **SAFETY DATA SHEET**



### Seahorse XF Calibrant Solution

### Section 1. Identification

1.1 Product identifier	
Product name	: Seahorse XF Calibrant Solution
Part no.	100840-000, 103059-000, 102416-100, 102601-100, 102905-100, 102340-100, 102342-100, 100850-001, 100867-100, 101174-100, 103022-100, 103518-100, 103721-100, 103723-100, 103724-100, 103729-100, 103775-100, 103777-100, 103792-100, 103793-100, 103798-100
Validation date	: 10/28/2021
1.2 Relevant identified uses	of the substance or mixture and uses advised against
Material uses	<ul> <li>For research use only. Not for use in diagnostic procedures (RUO).</li> <li>500 mL Seahorse XF Calibrant Solution, 500 mL 100840-000</li> <li>100 mL Seahorse XF Calibrant Solution, 100 mL 103059-000</li> <li>500 mL Seahorse XFe96 FluxPak 102416-100</li> <li>500 mL Seahorse XFe96 FluxPak mini 102601-100</li> <li>500 mL Seahorse XFe96 Spheroid FluxPak 102905-100</li> <li>500 mL Seahorse XFe24 FluxPak 102340-100</li> <li>500 mL Seahorse XFe24 FluxPak ini 102342-100</li> <li>500 mL Seahorse XF24 FluxPak mini 102342-100</li> <li>500 mL Seahorse XF24 FluxPak mini 100860-001</li> <li>500 mL Seahorse XF24 FluxPak mini 100860-001</li> <li>500 mL Seahorse XF24 FluxPak ini 100860-100</li> <li>500 mL Seahorse XF24 FluxPak ini</li> <li>10087-100</li> <li>500 mL Seahorse XF24 Islet FluxPak 103102-100</li> <li>500 mL Seahorse XF24 Islet FluxPak 103022-100</li> <li>500 mL Seahorse XF24 Islet FluxPak 103723-100</li> <li>100 mL Seahorse XF HS Mini FluxPak (PDL Plates) 103724-100</li> <li>100 mL Seahorse XF PF o M FluxPak (PDL Plates) 103729-100</li> <li>500 mL Seahorse XF Pro M FluxPak Mini 103775-100</li> <li>500 mL Seahorse XF Pro M FluxPak Mini 103777-100</li> <li>500 mL Seahorse XF Pro M FluxPak Mini 103793-100</li> <li>500 mL Seahorse XF Pro FluxPak Mini 103793-100</li> <li>500 mL Seahorse XF Pro PDL FluxPak Mini 103798-100</li> </ul>
<b><u>1.3 Details of the supplier of</u></b> Supplier/Manufacturer	f <u>the safety data sheet</u> : Agilent Technologies, Inc. 5301 Stevens Creek Blvd Santa Clara, CA 95051, USA 800-227-9770
1 4 Emergency telephone n	Imber

#### **<u>1.4 Emergency telephone number</u>**

In case of emergency : CHE

: CHEMTREC®: 1-800-424-9300

### Section 2. Hazards identification

2.1 Classification of the substance or mixture

OS	HA/	HCS	status	
		100	Julus	

: 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.

#### **Classification of the substance or mixture**

Not classified.

#### 2.2 GHS label elements

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### Section 2. Hazards identification

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.
2.3 Other hazards	
Hazards not otherwise classified	: None known.

### Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

There are no 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

### 4.1 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. 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	<ul> <li>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</li> </ul>
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.

Potential acute health effe	<u>cts</u>
Eye contact	: No known significant effects or critical hazards.
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/symp	<u>otoms</u>
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
	medical attention and special treatment needed, if necessary
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.

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# Section 4. First aid measures

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

#### 5.1 Extinguishing media

equipment for fire-fighters

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Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
5.2 Special hazards arising	from the substance or mixture
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.
5.3 Advice for firefighters	
Special protective actions	: Promptly isolate the scene by removing all persons from the vicinity of the incident if

for fire-fighters	there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective :	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

#### 6.1 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".
6.2 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).

#### 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : 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.

### Section 7. Handling and storage

### 7.1 Precautions for safe handling

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

### Section 7. Handling and storage

7.2 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. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

: Industrial applications, Professional applications.

Recommendations Industrial sector specific solutions

: Not available.

# Section 8. Exposure controls/personal protection

### 8.1 Control parameters

### **Occupational exposure limits**

Ingredient name	Exposure limits
None.	

8.2 Exposure controls	
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.
Individual protection measu	<u>ires</u>
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	<ul> <li>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.</li> </ul>
Other skin protection	<ul> <li>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.</li> </ul>
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 and safety characteristics

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

#### **Appearance**

Physical state Color	ł	Liquid. Not available.
Odor	÷	Not available.
Odor threshold	:	Not available.
рН	:	7.3 to 7.5
Melting point/freezing point	1	0°C (32°F)
Boiling point, initial boiling point, and boiling range	1	100°C (212°F)
Flash point	:	Not available.
Evaporation rate	1	Not available.
Flammability	:	Not applicable.
Lower and upper explosion limit/flammability limit	1	Not available.
Vapor pressure	:	

Vapor pressure	:	Vapor Pressure at 20°C			Vapor pressure at 50°C		
	Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
	Water	23.8	3.2				
Relative vapor density	: Not available.	I		<b>!</b>			
Relative density	: Not available.						
Solubility	: Easily soluble in the	following m	aterials:	cold water ar	nd hot wat	er.	
Miscible with water	: Yes.						
Partition coefficient: n- octanol/water	: Not applicable.						
Auto-ignition temperature	: Not available.						
Decomposition temperature	: Not available.						
Viscosity	: Not available.						
Particle characteristics							
Median particle size	: Not applicable.						

### Section 10. Stability and reactivity

10.1 Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	:	The product is stable.
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	No specific data.
10.5 Incompatible materials	:	May react or be incompatible with oxidizing materials.
10.6 Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

Section 11. Toxico	logical information
11.1 Information on toxicolog	ical effects
Acute toxicity	
Not available.	
Irritation/Corrosion	
Not available.	
Sensitization	
Not available.	
Mutagenicity	
Conclusion/Summary	: Not available.
Carcinogenicity	
Conclusion/Summary	: Not available.
Reproductive toxicity	
<b>Conclusion/Summary</b>	: Not available.
<b>Teratogenicity</b>	
Conclusion/Summary	: Not available.
Specific target organ toxicity	<u>/ (single exposure)</u>
Not available.	
Specific target organ toxicity	<u>/ (repeated exposure)</u>
Not available.	
Aspiration hazard	
Not available.	
Information on the likely	: Not available.
routes of exposure	
Potential acute health effects	
Eye contact	: No known significant effects or critical hazards.
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.
Symptoms related to the phys	sical, chemical and toxicological characteristics
Eye contact	: No specific data.
Inhalation	No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
	s and also chronic effects from short and long term exposure
Short term exposure Potential immediate	: Not available.
effects	
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate	: Not available.
effects Potential delayed effects	: Not available.

# Section 11. Toxicological information

#### Potential chronic health effects

- : No known significant effects or critical hazards.
- Carcinogenicity

General

- : No known significant effects or critical hazards.
- Mutagenicity
- : No known significant effects or critical hazards.
- **Reproductive toxicity** : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

N/A

# Section 12. Ecological information

### 12.1 Toxicity

Not available.

### 12.2 Persistence and degradability

Not available.

### 12.3 Bioaccumulative potential

Not available.

### 12.4 Mobility in soil

Soil/water partition : Not available. coefficient (K<sub>oc</sub>)

**12.5 Other adverse effects** : No known significant effects or critical hazards.

# Section 13. Disposal considerations

### 13.1 Waste treatment methods

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
	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.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

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# Section 14. Transport information

DOT / TDG / Mexico / IMDG / : Not regulated. IATA

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 : Not available. to IMO instruments

### Section 15. Regulatory information

Clean Water Act (CWA) 311: Disodium hydrogenorthophosphate	
Clean Air Act Section 112 : Not listed (b) Hazardous Air Pollutants (HAPs)	
Clean Air Act Section 602 : Not listed Class I Substances	
Clean Air Act Section 602 : Not listed Class II Substances	
DEA List I Chemicals : Not listed (Precursor Chemicals)	
DEA List II Chemicals : Not listed (Essential Chemicals)	
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.	
State regulations	
Massachusetts : None of the components are listed.	
New York: None of the components are listed.	
<b>New Jersey</b> : 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	
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# Section 15. Regulatory information

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**

Inventory list	
Australia	: All components are listed or exempted.
Canada	: All components are listed or exempted.
China	: All components are listed or exempted.
Europe	: All components are listed or exempted.
Japan	: Japan inventory (CSCL): All components are listed or exempted. Japan inventory (ISHL): All components are listed or exempted.
New Zealand	: All components are listed or exempted.
Philippines	: All components are listed or exempted.
Republic of Korea	: All components are listed or exempted.
Taiwan	: All components are listed or exempted.
Thailand	: 🕅 components are listed or exempted.
Turkey	: All components are listed or exempted.
United States	: 🕅 components are active or exempted.
Viet Nam	: 🕅 components are listed or exempted.

### Section 16. Other information

#### Procedure used to derive the classification

	Classification	Justification
Not classified.		
<u>History</u>		
Date of issue	: 10/28/2021	
Date of previous issue	: 04/28/2020	
Version	: 4	
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classificat IATA = International Air Transport Association IBC = International Air Transport Association IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition MARPOL = International Convention for the Preve as modified by the Protocol of 1978. ("Marpol" = m N/A = Not available UN = United Nations	coefficient ntion of Pollution From Ships, 1973

Indicates information that has changed from previously issued version.

#### Notice to reader

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