Conforms to US OSHA Hazard Communication 29CFR1910.1200

SAFETY DATA SHEET



GF-250 Chromatography Columns with Sodium Phosphate Dibasic

Section 1. Identification

This product is considered an article. This Safety Data Sheet is written based on the encapsulated substance or mixture in this article.

1.1 Product identifier				
Product name	: GF-250 Chromatography Columns with Sodium Phosphate Dibasic			
Part no.	: 884973-701, 884973-761, 884973-901			
Validation date	: 5/17/2022			
1.2 Relevant identified uses of the substance or mixture and uses advised against				
Material uses	: Analytical chemistry. HPLC column Solvent volume: < 10 mL 884973-701 GF-250, 4.6 x 250 mm, 4 um 884973-761 GF-250, 4.6 x 250 mm, 6 um 884973-901 GF-250, 9.4 x 250 mm, 4 um			
1.3 Details of the supplier of	1.3 Details of the supplier of the safety data sheet			
Supplier/Manufacturer	· Agilent Technologies, Inc.			

Supplier/Manufacturer	: Agilent Technologies, Inc. 5301 Stevens Creek Blvd Santa Clara, CA 95051, USA 800-227-9770

1.4 Emergency telephone number		
In case of emergency	1	CHEMTREC®: 1-800-424-9300

Section 2. Hazards identification

This article, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The substance or mixture is encapsulated in the article. Only if released due to use or processing of the article in a manner not in accordance with the product's directions for use it may present potential health and safety hazards.

2.1 Classification of the substance or mixture

OS	HA/ł	ICS	stat	us

: 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	
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	

Section 2. Hazards identification

Hazards not otherwise classified

: None known.

Section 3. Composition/information on ingredients

This article, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The substance or mixture is encapsulated in the article. Only if released due to use or processing of the article in a manner not in accordance with the product's directions for use it may present potential health and safety hazards.

Substance/mixture

: Mixture (encapsulated in article)

Ingredient name	%	CAS number
Disodium hydrogenorthophosphate	≤3	7558-79-4

Contains: Organosilane bonded silica gel.

Note: To the best of our knowledge, the acute and chronic toxicological properties of bonded silica gels have not been investigated. This product contains synthetic amorphous silica, and should not be confused with crystalline silica such as quartz, cristobalite, or tridymite, or with diatomaceous earth or other naturally occurring forms of amorphous silica that frequently contain crystalline forms of silica.

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 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	 Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: ₩ash 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.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health e	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.
<u>Over-exposure signs/s</u>	<u>ymptoms</u>
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
4.3 Indication of immedi	ate medical attention and special treatment needed, if necessary
Notos to physician	. Treat symptomatically. Contact poicon treatment specialist immediately if

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large guantities have been ingested or inhaled.

GF-250 Chromatography Columns with Sodium Phosphate Dibasic

Section 4. First aid measures

Specific treatments

Protection of first-aiders

: No specific treatment.

: No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures			
5.1 Extinguishing media			
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	: No specific fire or explosion hazard.		
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide phosphorus oxides metal oxide/oxides		
5.3 Advice for firefighters			
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.		

Section 6. Accidental release measures

6.1 Personal precautions, pro	te	ctive 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	r c	ontainment and cleaning up

Methods for cleaning up : Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

7.1 Precautions for safe handling **Protective measures** : Put on appropriate personal protective equipment (see Section 8). Advice on general : 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, occupational hygiene drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. 7.2 Conditions for safe 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 storage, including any (see Section 10) and food and drink. Keep container tightly closed and sealed until incompatibilities ready for use. Containers that have been opened must be carefully resealed and kept

containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. 7.3 Specific end use(s)

Recommendations		
Industrial sector specific		
solutions		

: Industrial applications, Professional applications.

upright to prevent leakage. Do not store in unlabeled containers. Use appropriate

Section 8. Exposure controls/personal protection

: Not available.

Since the hazardous ingredient in this article is encapsulated, the risk of exposure by inhalation, ingestion, skin contact and eyes contact is minimum.

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Disodium hydrogenorthophosphate	None.

8.2 Exposure controls Appropriate engineering controls Environmental exposure	 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
controls	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 measure	es en la companya de
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	

Section 8. Exposure controls/personal 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.

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.

Physical state : Solid. [Contains: anionic / solution] Color : Not available. Odor : Not available.	
Odor threshold : Not available.	
pH : 7 (anionic / solution)	
Melting point/freezing point : Not available.	
Boiling point, initial boiling : Not available. point, and boiling range	
Flash point : Not applicable.	
Evaporation rate : Not available.	
Flammability : Not available.	
Lower and upper explosion : Not applicable. limit/flammability limit	
Vapor pressure : Not available.	
Relative vapor density : Not applicable.	
Relative density : Not available.	
Solubility : Mobile phase: Soluble Stationary phase: Insoluble	
Partition coefficient: n- : Mot applicable. octanol/water	
Auto-ignition temperature : Not applicable.	
Decomposition temperature : Not available.	
Viscosity : Not applicable.	
Particle characteristics	

Section 10. Stability and reactivity

: No specific test data related to reactivity available for this product or its ingredients.
: The product is stable.
: Under normal conditions of storage and use, hazardous reactions will not occur.
: No specific data.
: May react or be incompatible with oxidizing materials. Incompatible with hydrogen fluoride.
: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity				
Product/ingredient name	Result	Species	Dose	Exposure
Disodium hydrogenorthophosphate	LD50 Oral	Rat	17000 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

Sensitization

Not available.

Mutagenicity	
Conclusion/Summary	: Not available.
Carcinogenicity	
Conclusion/Summary	: Not available.
Reproductive toxicity	
Conclusion/Summary	: Not available.
Teratogenicity	
Conclusion/Summary	: Not available.

Specific target organ toxicity (single exposure) Not available.

<u>Specific target organ toxicity (repeated exposure)</u> Not available.

Aspiration hazard

Not available.

Information on the likely : Not available. routes of exposure

Section 11. Toxicological information

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Potential acute health effects	5	
Eye contact	1	No known significant effects or critical hazards.
Inhalation	1	No known significant effects or critical hazards.
Skin contact	1	No known significant effects or critical hazards.
Ingestion	1	No known significant effects or critical hazards.
Symptoms related to the phy	<u>/sic</u>	cal, chemical and toxicological characteristics
Eye contact	1	No specific data.
Inhalation	1	No specific data.
Skin contact	1	No specific data.
Ingestion	:	No specific data.
Short term exposure Potential immediate effects		and also chronic effects from short and long term exposure Not available.
Potential delayed effects	1	Not available.
Long term exposure		
Potential immediate effects	1	Not available.
Potential delayed effects	1	Not available.
Potential chronic health eff	ect	<u>s</u>
General	1	No known significant effects or critical hazards.
Carcinogenicity	1	No known significant effects or critical hazards.
Mutagenicity	1	No known significant effects or critical hazards.
Reproductive toxicity	1	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

•	Oral (mg/ kg)	(mg/kg)		(vapors)	Inhalation (dusts and mists) (mg/ I)
Disodium hydrogenorthophosphate	17000	N/A	N/A	N/A	N/A

Section 12. Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
	Acute EC50 >100 mg/l Fresh water	Algae	72 hours
	Acute LC50 3580000 µg/l Fresh water Acute LC50 >100 mg/l Fresh water Acute NOEC >100 mg/l Fresh water Acute NOEC 100 mg/l Fresh water	Daphnia - Daphnia magna Fish Algae Fish	48 hours 96 hours 72 hours 96 hours

12.2 Persistence and degradability

Date of issue :	05/17/2022	7/10
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Section 12. Ecological information

Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Disodium	-5.8	-	low
hydrogenorthophosphate			

12.4 Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

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 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.

Section 14. Transport information

This Safety Data Sheet is written based on the encapsulated substance or mixture in this article. Since the hazardous ingredient is encapsulated, the risk of exposure by inhalation, ingestion, skin contact and eyes contact is minimum.

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

Remarks :Special provisions DOT: 47 TDG: 56 MX: 216 IATA: A46 IMDG: 216

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.

Section 14. Transport information

Transport in bulk according : Not available. to IMO instruments

Section 15. Regulatory information

S. Federal regulations.		: TSCA 8(a) CDR Exempt/Partial exemption: Not determined Clean Water Act (CWA) 311: Disodium hydrogenorthophosphate		
Clean Air Act Section 112 b) Hazardous Air Pollutants (HAPs)	: ٢	lot listed		
Clean Air Act Section 602 Class I Substances	: N	lot listed		
Clean Air Act Section 602 Class II Substances	: N	lot listed		
DEA List I Chemicals Precursor Chemicals)	: N	lot listed		
DEA List II Chemicals Essential Chemicals)	: N	lot listed		
SARA 302/304				
Composition/information	on in	g <u>redients</u>		
No products were found.				
SARA 304 RQ	: N	lot applicable.		
SARA 311/312				
Classification	: 1	lot applicable.		
Composition/information	on in	gredients		
Name		%	Classification	
Ørganosilane bonded silica Disodium hydrogenorthophosphate	gel	≥50 - ≤75 ≤3	COMBUSTIBLE DUSTS EYE IRRITATION - Category 2B	

muoduomuootto	PHOSPHATE, DIBASIC
New York	: The following components are listed: Sodium phosphate, dibasic
New Jersey	 The following components are listed: SODIUM PHOSPHATE, DIBASIC; PHOSPHORIC ACID, DISODIUM SALT
Pennsylvania	: The following components are listed: PHOSPHORIC ACID, DISODIUM SALT
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

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Section 15. Regulatory information

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC) Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list		
Australia	: All components are listed or exempted.	
Canada	: 🕅 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	: Not determined.	
Republic of Korea	: 🕅 components are listed or exempted.	
Taiwan	All components are listed or exempted.	
Thailand	: Not determined.	
Turkey	: All components are listed or exempted.	
United States	: 🕅 components are active or exempted.	
Viet Nam	: Not determined.	

Section 16. Other information

Procedure used to derive the classification

	Justification			
Not classified.				
History				
Date of issue	: 05/17/2022			
Date of previous issue	: 04/12/2019			
Version	: 4			
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 = Internediate 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 			

V Indicates information that has changed from previously issued version.

Notice to reader

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