

# SAFETY DATA SHEET

United States

Section 1. Identification Product name

## PD MidiTrap<sup>™</sup> G-25 Columns, (50)

Catalogue Number 28-9180-08

Other means of identification Product type

Not available. Liquid.

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

#### Identified uses

.

Analytical chemistry. Use in laboratories

Scientific research and development Industrial applications: Analytical chemistry. Laboratory use. Scientific research and development.

\_

#### Supplier

.

Cytiva Amersham Place Little Chalfont Buckinghamshire HP7 9NA United Kingdom +44 0800 515 313 Cytiva USA 100 Results Way Marlborough, MA 01752 1-800-526-3593

In case of emergency	ChemTrec US (available 24/7) 1-800-424-9300		
Section 2. Hazards ident	tification		
OSHA/HCS status	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).		
Classification of the substance or mixture	SKIN SENSITIZATION - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3		
GHS label elements Hazard pictograms			
Signal word	Warning		
Hazard statements	May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.		
Precautionary statements			
Prevention	Wear protective gloves. Avoid release to the environment. Avoid breathing vapor. Contaminated work clothing must not be allowed out of the workplace.		
Response	IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention.		
Storage	Not applicable.		
Disposal	Dispose of contents and container in accordance with all local, regional, national and international regulations.		
Hazards not otherwise classified	None known.		

Article Number :

28918008

Page: 1/8 Validation date 5 March 2020

## Section 3. Composition/information on ingredients

Substance/mixture Other means of identification	Mixture Not available.		
CAS number/other identifiers CAS number	Not applicable.		
Ingredient name		%	CAS number
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)		0.0015 - 0.00375	55965-84-9

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

Eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	Wash out mouth with water. Remove dentures if any. 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. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Most important symptoms/effect	ts, acute and delayed
Potential acute health effects	
Eye contact	No known significant effects or critical hazards.
Inhalation	No known significant effects or critical hazards.
Skin contact	May cause an allergic skin reaction.
Ingestion	No known significant effects or critical hazards.
Over-exposure signs/symptom	<u>s</u>
Eye contact	No specific data.
Inhalation	No specific data.
Skin contact	Adverse symptoms may include the following: irritation redness
Ingestion	No specific data.
Indication of immediate 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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
See toxicological information (S	ection 11)



## Section 5. Fire-fighting measures

Suitable extinguishing media   Use an extinguishing agent suitable for the surrounding fire.     Unsuitable extinguishing   None known.
media
Specific hazards arising from the chemicalIn a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal No specific data.   decomposition products Image: Composition product set of the set of t
Special protective actions for fire-fightersPromptly 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     Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus       for fire-fighters     (SCBA) with a full face-piece operated in positive pressure mode.

## 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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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".
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). Water polluting material. May be harmful to the environment if released in large quantities.
Methods and materials for contai	nment 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. Approach release from upwind. 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. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

## Precautions for safe handling

Protective measures	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
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. See Section 10 for incompatible materials before handling or use.



## Section 8. Exposure controls/personal protection

## Control parameters

Occupational exposure limits	
reaction mass of: 5-chloro-2-meth 247-500-7] and 2-methyl-2H-isoth (3:1)	
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 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. Contaminated work clothing should not be allowed out of the workplace. 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
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

<u>Appearance</u>	
Physical state	Liquid. [(White suspension in closed column.)]
Color	White. White to yellowish.
Odor	Odorless.
Odor threshold	Not available.
рН	Not available.
Melting point	Not available.
Boiling point	Not available.
Flash point	Not applicable.
Burning time	Not applicable.
Burning rate	Not applicable.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Lower and upper explosive (flammable) limits	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility	Not available.
Solubility in water	Not available.
Partition coefficient: n-octanol/ water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
SADT	Not available.

Article Number :

28918008

Page: 4/8 Validation date 5 March 2020 Aerosol product

## Section 10. Stability and reactivity

Reactivity Chemical stability	No specific test data related to reactivity available for this product or its ingredients. 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.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

g				
Information on toxicological effe	<u>cts</u>			
Acute toxicity				
Product/ingredient name	Result	Species	Dose	Exposure
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	LD50 Oral	Rat	53 mg/kg	-
Irritation/Corrosion				
Product/ingredient name	Result	Species Sc	ore Expe	osure Observation
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) <u>Conclusion/Summary</u>	Skin - Severe irritant	Human -	0.01	Percent -
Skin	Irritating to eyes and skin.			
<u>Sensitization</u>				
Not available.				
Conclusion/Summary				
Skin	May cause sensitization by skin	contact.		
<u>Mutagenicity</u>				
Not available.				
Carcinogenicity Not available. Reproductive toxicity				
Not available.				
Teratogenicity				
Not available.				
Specific target organ toxicity (s Not available.	<u>ingle exposure)</u>			
Specific target organ toxicity (r Not available.	epeated exposure)			
Aspiration hazard Not available.				
Information on the likely routes of exposure	Routes of entry anticipated: Oral	l, Dermal, Inhalation.		
Potential acute health effects				
Eye contact	No known significant effects or c	ritical hazards.		
Inhalation	No known significant effects or c			
Skin contact	May cause an allergic skin react			
Ingestion	No known significant effects or c			
-	-			



	,					
Symptoms related to the physica	II, chemical and toxicolog	ical characteris	<u>stics</u>			
Eye contact	No specific data.					
Inhalation	No specific data.					
Skin contact	Adverse symptoms may include the following: irritation redness					
Ingestion	No specific data.					
Delayed and immediate effects a	nd also chronic effects fro	om short and lo	ong term exp	<u>osure</u>		
Short term exposure						
Potential immediate effects Potential delayed effects	Not available. Not available.					
Long term exposure						
Potential immediate effects	Not available.					
Potential delayed effects	Not available.					
Potential chronic health effects Not available.						
General	Once sensitized, a severe levels.	allergic reaction	n may occur w	vhen subsequer	ntly exposed to	very low
Carcinogenicity	No known significant effect	cts or critical haz	zards.			
Mutagenicity	No known significant effect					
Teratogenicity	No known significant effect					
Developmental effects	No known significant effect No known significant effect					
Fertility effects	NO KHOWH Significant ener		Laius.			
Numerical measures of toxicity						
Acute toxicity estimates		<b>.</b>				
Product/ingredient name		Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/
reaction mass of 5-chloro-2-meth 2-methyl-2H-isothiazol-3-one (3:1		53	50	N/A	0.5	l) N/A
Section 12. Ecological in	formation					
Toxicity Not available.						
Persistence and degradability						
Not available.						
Bioaccumulative potential Not available.						
<u>Mobility in soil</u> Soil/water partition coefficient (K	Not available.					
<sub>oc</sub> ) Other adverse effects	No known significant effec	cts or critical haz	zards.			
Section 13. Disposal cor	siderations					
Disposal methods	The generation of waste s product, solutions and any environmental protection a requirements. Dispose of contractor. Waste should requirements of all author or landfill should only be c	/ by-products sh and waste dispo surplus and not not be disposed ities with jurisdic	ould at all tim sal legislation n-recyclable p d of untreated ction. Waste p	es comply with and any region products via a lic to the sewer un packaging shou	the requirement that local author censed waste contess fully comp and be recycled.	nts of ity lisposal bliant with the Incineration



## Section 14. Transport information

Product is not regulated as dangerous goods for transport.

Section 15. Regulatory	information		
U.S. Federal regulations	TSCA 8(a) CDR Exempt/Partial exemption: Not determined		
Clean Air Act Section 112(b) Ha	azardous Air Pollutants	Not listed	

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Not listed
Clean Air Act Section 602 Class I Substances	Not listed
Clean Air Act Section 602 Class II Substances	Not listed
DEA List I Chemicals (Precursor Chemicals)	Not listed
DEA List II Chemicals (Essential Chemicals)	Not listed

#### SARA 302/304

Composition/information	on ingredients

No products were found.

Not applicable.

#### SARA 311/312 Classification

SKIN SENSITIZATION - Category 1

#### Composition/information on ingredients

Name	%	Classification
reaction mass of 5-chloro-2-methyl-	<0.025	ACUTE TOXICITY (oral) - Category 3
2H-isothiazol-3-one and 2-methyl-2H-		ACUTE TOXICITY (dermal) - Category 2
isothiazol-3-one (3:1)		ACUTE TOXICITY (inhalation) - Category 2
		SKIN CORROSION - Category 1C
		SKIN SENSITIZATION - Category 1A

#### State regulations

Massachusetts	None of the components are listed.
New York	None of the components are listed.
New Jersey	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		
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	All components are listed or exempted.	



## Section 16. Other information

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



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

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

Classi	fication	Justification	
SKIN SENSITIZATION - Categor AQUATIC HAZARD (LONG-TER		Calculation method Calculation method	
History			
Date of printing	6/1/2020		
Date of issue/Date of revision	3/5/2020		
Date of previous issue	10/10/2019		
Version	7		
	sds_author@cytiva.com		
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.		
<b>—</b>			

Indicates information that has changed from previously issued version.

#### 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.

