

Version	
1.0	

Revision Date: 09/05/2021

Date of last issue: -Date of first issue: 09/05/2021

Safety Data Sheet (SDS) cover letter for product:

QIAamp Fast DNA Stool Mini Kit (50)

Catalog number:	51604
Document ID:	80000003471
Country / Language:	US / EN

This product contains one or more components with related SDS, listed below. You can find the SDS for each component on the following pages.

Components with SDS:

- Buffer AW2
- Proteinase K
- Buffer AW1
- Buffer ATE
- Inhibitex Buffer
- QIAamp Mini Spin Column (1)
- Buffer AL-T/M

Kind regards,, Your QIAGEN Team

Email cpc@qiagen.com | Website www.qiagen.com/safety



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SECTION 1. IDENTIFICATION

Product name Manufacturer or supplier's o	•	Buffer AW2
Company		QIAGEN GmbH QIAGEN Str. 1 D-40724 Hilden
Telephone	:	+49-(0)2103-29-0
Responsible Department	:	QIAGEN Inc. 19300 Germantown Road Germantown, MD 20874, USA Tel.: 800-426-8157 http://support.qiagen.com
E-mail addressResponsible/issuing person	:	cpc@qiagen.com
Emergency telephone	:	CHEMTREC USA & Canada 1-800-424-9300

Recommended use of the chemical and restrictions on use

Recommended use	: Laboratory chemicals
Recommended use	

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

No hazardous ingredients

SECTION 4. FIRST AID MEASURES

General advice	:	Show this material safety data sheet to the doctor in attendance.
If inhaled	:	Move to fresh air.



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In case of skin contact		with soap and plenty of water while nated clothes and shoes.
In case of eye contact	: Remove contact lens Protect unharmed ey	es. e. n plenty of water for at least 15 minutes
If swallowed	: If accidentally swallow Rinse mouth with wa	wed obtain immediate medical attention
Most important symptoms and effects, both acute and delayed	: No information availa	
Notes to physician	: No information availa	ble.
CTION 5. FIRE-FIGHTING ME	ASURES	
Suitable extinguishing media	: Use extinguishing me	easures that are appropriate to local
Suitable extinguishing media Specific hazards during fire fighting	: Use extinguishing me circumstances and the	easures that are appropriate to local le surrounding environment. osition products may be a hazard to
Specific hazards during fire	: Use extinguishing me circumstances and th : Exposure to decomp	e surrounding environment.
Specific hazards during fire fighting Hazardous combustion	 Use extinguishing me circumstances and th Exposure to decompo- health. None In the event of fire an 	e surrounding environment.
Specific hazards during fire fighting Hazardous combustion products Further information Special protective equipment	 Use extinguishing me circumstances and th Exposure to decompo- health. None In the event of fire an Wear self-contained necessary. 	e surrounding environment. osition products may be a hazard to d/or explosion do not breathe fumes.
Specific hazards during fire fighting Hazardous combustion products Further information Special protective equipment for fire-fighters	 Use extinguishing me circumstances and th Exposure to decompo- health. None In the event of fire an Wear self-contained in necessary. 	d/or explosion do not breathe fumes.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Further information on storage stability	:	No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.



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Personal protective equipment

Hand protection

Remarks	:	The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Eye protection	:	Safety glasses
Skin and body protection	:	Choose body protection according to the amount and concentration of the dangerous substance at the work place. Footwear protecting against chemicals
Hygiene measures	:	Keep away from food and drink. When using do not eat, drink or smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	No data available
Odor	:	characteristic
Odor Threshold	:	No data available
рН	:	7.5
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Burning rate	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available
Density	:	1.01 g/cm3
Solubility(ies) Water solubility	:	No data available
Solubility in other solvents	:	No data available



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Partition coefficient: n- octanol/water Autoignition temperature	No data availablenot determined	
Decomposition temperature	: No data available	
Viscosity Viscosity, dynamic	: No data available	
Viscosity, kinematic	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reactions	 No decomposition if stored and applied as directed. No decomposition if stored and applied as directed. Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions.
Conditions to avoid Incompatible materials Hazardous decomposition products	 No data available No data available No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	:	Remarks: No data available
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	Remarks: No data available

Skin corrosion/irritation

Not classified based on available information.

Product:

Remarks

: May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks : May irritate eyes.



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Respiratory	or skin sensitization	
Skin sensitiz Not classified	zation I based on available information.	
	sensitization I based on available information.	
Product:		
Remarks	: No data available	
Germ cell m Not classified	utagenicity I based on available information.	
Carcinogeni	city	
-	based on available information.	t levels greater than or equal to 0.1% is firmed human carcinogen by IARC.
OSHA	No component of this product present on OSHA's list of regulated carcinoger	at levels greater than or equal to 0.1% ns.
NTP	No ingredient of this product present a identified as a known or anticipated ca	t levels greater than or equal to 0.1% is rcinogen by NTP.
Reproductiv	-	
Not classified	based on available information.	
STOT-single Not classified	e exposure I based on available information.	
•	ted exposure	
Not classified	based on available information.	
Aspiration to Not classified	oxicity I based on available information.	
Further info	rmation	
Product:		
Remarks	: No data available	
CTION 12. EC	OLOGICAL INFORMATION	

<u>Product:</u> Toxicity to fish	:	Remarks: No data available
Toxicity to algae/aquatic plants	:	Remarks: No data available
Toxicity to microorganisms	:	Remarks: No data available



ersion 0	Revision Date: 09/05/2021	Date of last issue: - Date of first issue: 09/05/2021
Persistence and degradab No data available	ility	
Bioaccumulative potential		
Product: Bioaccumulation	: Remarks: No data ava	ailable
Mobility in soil No data available		
Other adverse effects		
Product:		
Ozone-Depletion Potential	Protection of Stratosph Substances Remarks: This produc manufactured with a C	rotection of Environment; Part 82 heric Ozone - CAA Section 602 Class I t neither contains, nor was Class I or Class II ODS as defined by the ction 602 (40 CFR 82, Subpt. A, App.A
Additional ecological information	: No data available	

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.

Domestic regulation

49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

Components CAS-	No. Component RQ	Calculated product RQ
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		(lbs)	(lbs)
sodium azide	26628-22-8	1000	*
* 0 1 1 4 1 5 0		11 IV	

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
sodium azide	26628-22-8	1000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	No SARA Hazards
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

Maine Chemicals of High Concern

This product does not contain any chemicals that are listed as Maine Chemicals of High Concern.

Maine Chemicals of High Concern

Product does not contain any listed chemicals

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations



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AICS - Australian Inventory of Chemical Substances; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA -Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx -Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx -Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC -International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. -Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ -Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB -Very Persistent and Very Bioaccumulative

SDS Number : 60000001230

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The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

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SECTION 1. IDENTIFICATION

Product name	:	Proteinase K
Manufacturer or supplier's d	leta	ils
Company	:	QIAGEN GmbH QIAGEN Str. 1 D-40724 Hilden
Telephone	:	+49-(0)2103-29-0
Responsible Department	:	QIAGEN Inc. 19300 Germantown Road Germantown, MD 20874, USA Tel.: 800-426-8157 http://support.qiagen.com
E-mail addressResponsible/issuing person	:	cpc@qiagen.com
Emergency telephone	:	CHEMTREC USA & Canada 1-800-424-9300

Recommended use of the chemical and restrictions on use

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)		
Respiratory sensitization	:	Category 1
GHS label elements		
Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Precautionary Statements	:	Prevention: P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P285 In case of inadequate ventilation wear respiratory protection.



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Response:

P304 + P341 IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)		
proteinase K	39450-01-6	>= 1 - < 10		
Actual concentration is withheld as a trade secret				

SECTION 4. FIRST AID MEASURES

General advice	Move out of dangerous area Show this material safety da attendance.	
If inhaled	f unconscious, place in reco advice. Keep respiratory tract clear. f symptoms persist, call a p	
In case of skin contact		oap and plenty of water while clothes and shoes.
In case of eye contact	Remove contact lenses. Protect unharmed eye.	of water for at least 15 minutes
If swallowed	Rinse mouth with water.	tain immediate medical attention. th to an unconscious person.
Most important symptoms and effects, both acute and delayed Notes to physician	May cause allergy or asthma difficulties if inhaled. No information available. No information available.	•

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Specific hazards during fire fighting	:	Exposure to decomposition products may be a hazard to health.



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Hazardous combustion products	:	No data available		
Further information Special protective equipment for fire-fighters			xplosion do not breathe fumes. Ing apparatus for firefighting if	
SECTION 6. ACCIDENTAL RELEASE MEASURES				
Personal precautions, protective equipment and emergency procedures	:	Use personal protective equentiation Ensure adequate ventilation Avoid breathing dust/ fume/	1.	
Environmental precautions	:	Prevent product from enteri	ng drains.	

	•	Prevent further leakage or spillage if safe to do so.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	 Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Conditions for safe storage	:	Keep container tightly closed in a dry and well-ventilated place.
Further information on storage stability	:	No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection	:	In the case of vapor formation use a respirator with an approved filter.
Hand protection		
Material	:	Protective gloves



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Remarks	its material but also o from one producer to given by the producer	ropriate glove does not only depend on on other quality features and is different the other. Take note of the information r concerning permeability and break special workplace conditions uration of contact).
Eye protection	: Tightly fitting safety g Do not wear contact l	
Skin and body protection		ion according to the amount and dangerous substance at the work place. against chemicals
Hygiene measures	: Keep away from food Wash hands before b	l and drink. preaks and at the end of workday. ntilation, especially in confined areas. e skin and the eyes.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	light cream
Odor	:	odorless
Odor Threshold	:	No data available
рН	:	7.5
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	does not flash
Evaporation rate	:	No data available
Burning rate	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available
Density	:	1.10 g/cm3
Solubility(ies) Water solubility	:	No data available



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Solubility in other solvents	: soluble		
Partition coefficient: n-	: No data available		
octanol/water Autoignition temperature	: not determined		
Decomposition temperature	: No data available		
Viscosity Viscosity, dynamic	: No data available		
Viscosity, kinematic	: 7.741 mm2/s (68 °F / Method: DIN 51562	20 °C)	
Explosive properties	: Not applicable		

SECTION 10. STABILITY AND REACTIVITY

Oxidizing properties

Reactivity Chemical stability Possibility of hazardous reactions	 No decomposition if stored and applied as directed. No decomposition if stored and applied as directed. Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions. Keep away from oxidizing agents, and acidic or alkaline products.
Conditions to avoid Incompatible materials Hazardous decomposition products	 No data available No data available No decomposition if stored and applied as directed.

: No data available

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

|--|

Acute oral toxicity	:	Remarks: No data available
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	Remarks: No data available

Skin corrosion/irritation

Not classified based on available information.

Product:

Remarks :	ſ	May cause skin irritation and/or dermatitis.
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Serious eye damage/eye irritation

Not classified based on available information.



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Product:				
Remarks	: The product causes membranes.	s irritation of eyes, skin and mucous		
Respiratory or s	kin sensitization			
Skin sensitizatio	n			
Not classified bas	ed on available information.			
Respiratory sens				
	y or asthma symptoms or breathing	aifficulties if innaled.		
<u>Product:</u> Remarks	: May cause sensitiz	ation by inhalation and skin contact.		
Germ cell mutag	-			
	ed on available information.			
Carcinogenicity	ed on available information.			
IARC N		at levels greater than or equal to 0.1% is firmed human carcinogen by IARC.		
	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.			
	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.			
Reproductive to	xicity			
Not classified bas	ed on available information.			
STOT-single exp				
Not classified bas	sed on available information.			
STOT-repeated e Not classified bas	exposure sed on available information.			
Aspiration toxic	ity			
Not classified bas	ed on available information.			
Further informat	ion			
Product:				
Remarks	: No data available			
TION 12. ECOLO				

Product:

Toxicity to fish

Remarks: No data available

:



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Toxicity to algae/aquatic plants	:	Remarks: No data available	
Toxicity to microorganisms	:	Remarks: No data available	
Persistence and degradabi No data available	lity		
Bioaccumulative potential			
Product:			
Bioaccumulation	:	Remarks: No data available	
Mobility in soil			
No data available			
Other adverse effects			
Product:			
Ozone-Depletion Potential	:	Substances Remarks: This product neith manufactured with a Class	Ozone - CAA Section 602 Class
Additional ecological information	:	No data available	

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	:	Send to a licensed waste management company. Dispose of as hazardous waste in compliance with local and national regulations.
Contaminated packaging	:	Dispose of as unused product. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation



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49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	Respiratory or skin sensitization
SARA 313		This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

Maine Chemicals of High Concern

This product does not contain any chemicals that are listed as Maine Chemicals of High Concern.

Maine Chemicals of High Concern

Product does not contain any listed chemicals

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.



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SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA -Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx -Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx -Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC -International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan): ISO - International Organisation for Standardization: KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. -Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ -Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB -Very Persistent and Very Bioaccumulative

SDS Number	:	60000001246

Revision Date : 09/05/2021

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

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SECTION 1. IDENTIFICATION

Product name Manufacturer or supplier's o	: Buffer AW1 details
Company	: QIAGEN GmbH QIAGEN Str. 1 D-40724 Hilden
Telephone	: +49-(0)2103-29-0
Responsible Department	: QIAGEN Inc. 19300 Germantown Road Germantown, MD 20874, USA Tel.: 800-426-8157 http://support.qiagen.com
E-mail addressResponsible/issuing person	: cpc@qiagen.com
Emergency telephone	: CHEMTREC USA & Canada 1-800-424-9300

Recommended use of the chemical and restrictions on use

Recommended use : Laboratory chemicals	Recommended use	: Laboratory chemicals
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SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

1310.1200)		
Acute toxicity (Oral)	:	Category 4
Acute toxicity (Inhalation)	:	Category 4
Skin irritation	:	Category 2
Eye irritation	:	Category 2A
GHS label elements Hazard pictograms	:	!
Signal Word	:	Warning
Hazard Statements	:	H302 + H332 Harmful if swallowed or if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation.



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Precautionary Statements	: Prevention: P280 Wear protectiv face protection.	ve gloves/ protective clothing/ eye protection
	Response: P362 Take off conta	aminated clothing and wash before reuse.
	Disposal: P501 Dispose of co disposal plant.	ntents/ container to an approved waste

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
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Components

Chemical name	CAS-No.	Concentration (% w/w)
guanidine hydrochloride	50-01-1	>= 50 - < 70
Actual concentration is withheld	l as a trade secret	

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice	:	Move out of dangerous area. Show this material safety data sheet to the doctor in attendance.
If inhaled	:	If unconscious, place in recovery position and seek medical advice.
In case of skin contact	:	If symptoms persist, call a physician. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.
In case of eye contact	:	Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	:	If accidentally swallowed obtain immediate medical attention. Rinse mouth with water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	:	Harmful if swallowed or if inhaled. Causes skin irritation. Causes serious eye irritation. No information available.
Notes to physician	:	No information available.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Specific hazards during fire fighting	:	Exposure to decomposition products may be a hazard to health.



ersion .0		vision Date: 05/2021	Date of last issue: - Date of first issue: 09/05/2021
Hazardous combustion products	:	Carbon oxides Nitrogen oxides (NOx)	
Further information Special protective equipment for fire-fighters			or explosion do not breathe fumes. eathing apparatus for firefighting if
ECTION 6. ACCIDENTAL RELI	EAS	E MEASURES	
Personal precautions, protective equipment and emergency procedures	:	Use personal protective Ensure adequate ventila Avoid breathing dust/ fu	
Environmental precautions	:	Prevent product from er Prevent further leakage	ntering drains. or spillage if safe to do so.

Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.
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SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	Do not breathe vapors/dust. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.
Conditions for safe storage	:	Keep container tightly closed in a dry and well-ventilated place.
Further information on storage stability	:	No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipme	ent	
Respiratory protection	:	In the case of vapor formation use a respirator with an approved filter.
Hand protection		
Material	:	Protective gloves
Remarks	:	The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions



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Eye protection	 (mechanical strain, duration) Safety glasses Wear face-shield and protect problems. 	on of contact). Tective suit for abnormal processing	
Skin and body protection	 Ensure that eyewash stations and safety showers are close to the workstation location. Choose body protection according to the amount and concentration of the dangerous substance at the work place. 		
Hygiene measures	: Keep away from food and Wash hands before break Ensure adequate ventilation Avoid contact with the skin	 Footwear protecting against chemicals Keep away from food and drink. Wash hands before breaks and at the end of workday. Ensure adequate ventilation, especially in confined areas. Avoid contact with the skin and the eyes. When using do not eat, drink or smoke. 	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	No data available
Odor	:	characteristic
Odor Threshold	:	No data available
рН	:	4.5
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Burning rate	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available
Density	:	1.168 g/cm3
Solubility(ies) Water solubility	:	No data available
Solubility in other solvents	:	No data available



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Partition coefficient: n- octanol/water Autoignition temperature	: No data available : not determined	
Decomposition temperature	: No data available	
Viscosity Viscosity, dynamic	: No data available	
Viscosity, kinematic	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reactions	 No decomposition if stored and applied as directed. No decomposition if stored and applied as directed. Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions. Keep away from oxidizing agents, and acidic or alkaline products.
Conditions to avoid Incompatible materials Hazardous decomposition products	 No data available No data available No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if swallowed or if inhaled.

Product: Acute oral toxicity	:	Remarks: No data available
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	Remarks: No data available
Components:		
guanidine hydrochloride: Acute oral toxicity	:	LD50 Oral (Rat): 1,120 mg/kg
Skin corrosion/irritation Causes skin irritation.		
<u>Product:</u> Remarks	:	May irritate skin.



rsion)	Revision Date: 09/05/2021	Date of last issue: - Date of first issue: 09/05/2021
Serious eye d Causes serious	amage/eye irritation s eye irritation.	
Product:		
Remarks	: May cause irrevers	sible eye damage.
Respiratory o	r skin sensitization	
Skin sensitiza	tion	
Not classified b	based on available information.	
Respiratory se		
Not classified b	based on available information.	
Product:		
Remarks	: No data available	
Germ cell mut Not classified b	agenicity based on available information.	
Carcinogenici	ty	
Not classified b IARC	based on available information. No ingredient of this product present identified as probable, possible or co	at levels greater than or equal to 0.1% is nfirmed human carcinogen by IARC.
OSHA	No component of this product presen on OSHA's list of regulated carcinoge	t at levels greater than or equal to 0.1% i ens.
NTP	No ingredient of this product present identified as a known or anticipated c	at levels greater than or equal to 0.1% is arcinogen by NTP.
Reproductive	-	
Not classified b	based on available information.	
STOT-single e	-	
	based on available information.	
STOT-repeate	-	
-		
Not classified b	based on available information.	
Not classified b Aspiration tox		

Product:

Remarks

: No data available

SECTION 12. ECOLOGICAL INFORMATION

:

Ecotoxicity

Product:

Toxicity to fish



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		Remarks: No data availab	le
Toxicity to algae/aquatic plants	:	Remarks: No data availab	le
Toxicity to microorganisms	:	Remarks: No data availab	le
Persistence and degradab	oility		
Components:			
guanidine hydrochloride: Biodegradability	:	Method: OECD Test Guide Remarks: According to the this product is not readily b	e results of tests of biodegradability
Bioaccumulative potential			
Product: Bioaccumulation	:	Remarks: No data availab	le
Components:			
guanidine hydrochloride: Partition coefficient: n- octanol/water	:	log Pow: ca1.7 (68 °F / 2	20 °C)
Mobility in soil No data available			
Other adverse effects			
Product:			
Ozone-Depletion Potential	:	Protection of Stratospheric Substances Remarks: This product nei manufactured with a Class	ction of Environment; Part 82 c Ozone - CAA Section 602 Class ither contains, nor was s I or Class II ODS as defined by th 602 (40 CFR 82, Subpt. A, App.A
Additional ecological information	:	No data available	

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal ı	methods
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Waste from residues	:	Send to a licensed waste management company.
		Dispose of as hazardous waste in compliance with local and
		national regulations.
Contaminated packaging	:	Dispose of as unused product.
		Do not re-use empty containers.



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SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.

Not applicable for product as supplied

Domestic regulation

49 CFR Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards		Acute toxicity (any route of exposure) Skin corrosion or irritation Serious eye damage or eye irritation
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307



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This product does not contain any priority pollutants related to the U.S. Clean Water Act

Maine Chemicals of High Concern

This product does not contain any chemicals that are listed as Maine Chemicals of High Concern.

Maine Chemicals of High Concern

Product does not contain any listed chemicals

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA -Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx -Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx -Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC -International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. -Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ -Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB -Very Persistent and Very Bioaccumulative

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Revision Date : 09/05/2021

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1.0	09/05/2021	Date of first issue: 09/05/2021

SECTION 1. IDENTIFICATION

Product name Manufacturer or supplier's of	: Buffer ATE details
Company	: QIAGEN GmbH QIAGEN Str. 1 D-40724 Hilden
Telephone	: +49-(0)2103-29-0
Responsible Department	: QIAGEN Inc. 19300 Germantown Road Germantown, MD 20874, USA Tel.: 800-426-8157 http://support.qiagen.com
E-mail addressResponsible/issuing person	: cpc@qiagen.com
Emergency telephone	: CHEMTREC USA & Canada 1-800-424-9300

Recommended use of the chemical and restrictions on use

Recommended use	: Laboratory chemicals

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

No hazardous ingredients

SECTION 4. FIRST AID MEASURES

General advice	:	Show this material safety data sheet to the doctor in attendance.
If inhaled	:	Move to fresh air.



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In case of skin contact		with soap and plenty of water while nated clothes and shoes.	
In case of eye contact	: Remove contact lens Protect unharmed ey	es. e. n plenty of water for at least 15 minutes	
If swallowed	: If accidentally swallow Rinse mouth with wat	wed obtain immediate medical attention.	
Most important symptoms and effects, both acute and delayed	: No information availa		
Notes to physician	: No information availa	ble.	
ECTION 5. FIRE-FIGHTING ME	ASURES		
Suitable extinguishing media		easures that are appropriate to local e surrounding environment.	
Specific hazards during fire fighting		osition products may be a hazard to	
Hazardous combustion products	: No hazardous combu	istion products are known	
Further information Special protective equipment for fire-fighters		d/or explosion do not breathe fumes. breathing apparatus for firefighting if	
SECTION 6. ACCIDENTAL RELEASE MEASURES			
Personal precautions, protective equipment and emergency procedures	: Use personal protecti Avoid breathing dust/	ive equipment. ′ fume/ gas/ mist/ vapors/ spray.	
Methods and materials for containment and cleaning up	: Keep in suitable, clos	ed containers for disposal.	

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Materials to avoid	:	Do not store near acids.
Further information on storage stability	:	No decomposition if stored and applied as directed.



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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipment

Hand protection

Remarks	:	The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Eye protection	:	Safety glasses
Skin and body protection	:	Choose body protection according to the amount and concentration of the dangerous substance at the work place. Footwear protecting against chemicals
Hygiene measures	:	Keep away from food and drink. When using do not eat, drink or smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	No data available
Odor	:	characteristic
Odor Threshold	:	No data available
рН	:	8.3
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	No data available
Burning rate	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available



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Density	: 0.99 g/cm3	
Solubility(ies)		
Water solubility	: No data available	
Solubility in other solvents	s : No data available	
Partition coefficient: n- octanol/water	: No data available	
Autoignition temperature	: not determined	
Decomposition temperature	: No data available	
Viscosity		
Viscosity, dynamic	: No data available	
Viscosity, kinematic	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reactions	 No decomposition if stored and applied as directed. No decomposition if stored and applied as directed. Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions.
Conditions to avoid Incompatible materials Hazardous decomposition products	 No data available No data available No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	:	Remarks: No data available
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	Remarks: No data available

Skin corrosion/irritation

Not classified based on available information.

Product:

Remarks :	May cause skin irritation in susceptible persons.
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Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks

: May irritate eyes.

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Product:

Remarks : No data available

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

- **IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- **OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
- **NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks

: No data available

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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish



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		Remarks: No data available	1
Toxicity to algae/aquatic plants	:	Remarks: No data available	
Toxicity to microorganisms	:	Remarks: No data available	
Persistence and degradab No data available	ility		
Bioaccumulative potential			
Product: Bioaccumulation	:	Remarks: No data available	
Mobility in soil No data available			
Other adverse effects			
Product:			
Ozone-Depletion Potential	:	Substances Remarks: This product neith manufactured with a Class	Ozone - CAA Section 602 Class
Additional ecological information	:	No data available	

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	Dispose of contents, regulation.	/container in accordance with local
Contaminated packaging	Empty containers sh handling site for rec	nould be taken to an approved waste ycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.



Version 1.0 Revision Date: 09/05/2021

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Domestic regulation

49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
sodium azide	26628-22-8	1000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
sodium azide	26628-22-8	1000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	: No SARA Hazards	
SARA 313	: This material does not contain any chemical components wit known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.	

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

Maine Chemicals of High Concern

This product does not contain any chemicals that are listed as Maine Chemicals of High Concern.

Maine Chemicals of High Concern

Product does not contain any listed chemicals

TSCA list

No substances are subject to a Significant New Use Rule.



Version 1.0 Revision Date: 09/05/2021

Date of last issue: -Date of first issue: 09/05/2021

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA -Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx -Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx -Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC -International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. -Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ -Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB -Very Persistent and Very Bioaccumulative

SDS Number	:	60000001413
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Revision Date : 09/05/2021

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SECTION 1. IDENTIFICATION

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Product name	:	Inhibitex Buffer
Manufacturer or supplier's o	deta	ils
Company	:	QIAGEN GmbH QIAGEN Str. 1 D-40724 Hilden
Telephone	:	+49-(0)2103-29-0
Responsible Department	:	QIAGEN Inc. 19300 Germantown Road Germantown, MD 20874, USA Tel.: 800-426-8157 http://support.qiagen.com
E-mail addressResponsible/issuing person	:	cpc@qiagen.com
Emergency telephone	:	CHEMTREC USA & Canada 1-800-424-9300

Recommended use of the chemical and restrictions on use

Recommended use	: Laboratory chemicals

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
lithium chloride	7447-41-8	>= 1 - < 10
sodium dodecyl sulphate	151-21-3	>= 1 - < 10
Actual concentration is withhold	an a trada agarat	

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice

: Show this material safety data sheet to the doctor in



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	attendance.	
If inhaled	: Move to fresh air.	
In case of skin contact	: Wash off immedia removing all cont	ist, call a physician. ately with soap and plenty of water while aminated clothes and shoes. ist, call a physician.
In case of eye contact	: Remove contact Protect unharmed Rinse thoroughly	lenses. d eye. with plenty of water for at least 15 minutes
If swallowed	Rinse mouth with	allowed obtain immediate medical attention.
Most important symptoms and effects, both acute and delayed	: No information av	
Notes to physician	: No information av	/ailable.
SECTION 5. FIRE-FIGHTING ME	ASURES	
Suitable extinguishing media		measures that are appropriate to local
Specific hazards during fire fighting		id the surrounding environment. Imposition products may be a hazard to
Hazardous combustion products	: Chlorine compou Carbon oxides Nitrogen oxides (Sulfur oxides	
Further information Special protective equipment for fire-fighters		e and/or explosion do not breathe fumes. Ied breathing apparatus for firefighting if
SECTION 6. ACCIDENTAL RELI	EASE MEASURES	
Personal precautions, protective equipment and emergency procedures		tective equipment. lust/ fume/ gas/ mist/ vapors/ spray.
Environmental precautions	: Prevent further le	akage or spillage if safe to do so.
Methods and materials for containment and cleaning up		closed containers for disposal.
SECTION 7. HANDLING AND ST	ORAGE	
Advice on protection against fire and explosion	: Normal measures	s for preventive fire protection.
Advice on safe handling		h skin and eyes. ection see section 8. and drinking should be prohibited in the

Dispose of rinse water in accordance with local and national

application area.



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Conditions for safe storage Further information on storage stability	regulations. : Keep container tightly close place. : No decomposition if stored	ed in a dry and well-ventilated and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipment

Hand protection

Remarks	: The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Eye protection	: Safety glasses
Skin and body protection	: Choose body protection according to the amount and concentration of the dangerous substance at the work place. Footwear protecting against chemicals
Hygiene measures	 Keep away from food and drink. Wash hands before breaks and at the end of workday. Ensure adequate ventilation, especially in confined areas. Avoid contact with the skin and the eyes. When using do not eat, drink or smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	yellow
Odor	:	No information available.
Odor Threshold	:	No data available
рН	:	4
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Burning rate	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower	:	No data available



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flammability limit		
Vapor pressure	: No data available	
Relative vapor density	: No data available	
Relative density	: No data available	
Density	: 1.07 g/cm3	
Solubility(ies) Water solubility	: No data available	
Solubility in other solvents	: No data available	
Partition coefficient: n- octanol/water	: No data available	
Autoignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity Viscosity, dynamic	: No data available	
Viscosity, kinematic	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reactions	 No decomposition if stored and applied as directed. No decomposition if stored and applied as directed. Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions. Keep away from oxidizing agents, and acidic or alkaline products.
Conditions to avoid Incompatible materials Hazardous decomposition products	 No data available No data available No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	:	Remarks: No data available
Acute inhalation toxicity	:	Remarks: No data available



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Acute dermal toxicity	: Remarks: No data a	vailable
Components:		
lithium chloride:		
Acute oral toxicity	: LD50 Oral (Rat): 52	6 mg/kg
sodium dodecyl sulpha	te:	
Acute oral toxicity	: LD50 Oral (Rat): 97	7 mg/kg
Acute dermal toxicity	: LD50 Dermal (Rabb	it): 580 mg/kg
Skin corrosion/irritation		
Not classified based on a	valiable information.	
<u>Product:</u> Remarks	: May cause skin irrita	ation and/or dermatitis.
Components:		
	4	
sodium dodecyl sulpha		
Species Exposure time	: Rabbit : 24 h	
Result	: Irritating to skin.	
Serious eye damage/ey	e irritation	
Not classified based on a <u>Product:</u> Remarks		irritation of eves, skin and mucous
		irritation of eyes, skin and mucous
Product:	: The product causes	irritation of eyes, skin and mucous
<u>Product:</u> Remarks	: The product causes membranes.	irritation of eyes, skin and mucous
Product: Remarks Components: sodium dodecyl sulpha Species	: The product causes membranes. te: : Rabbit	
<u>Product:</u> Remarks <u>Components:</u> sodium dodecyl sulpha	: The product causes membranes.	age to eyes.
Product: Remarks Components: sodium dodecyl sulpha Species Result	 The product causes membranes. te: Rabbit Risk of serious dam OECD Test Guidelir 	age to eyes.
Product: Remarks Components: sodium dodecyl sulpha Species Result Method Respiratory or skin sen	 The product causes membranes. te: Rabbit Risk of serious dam OECD Test Guidelir 	age to eyes.
Product: Remarks Components: sodium dodecyl sulpha Species Result Method	: The product causes membranes. te: : Rabbit : Risk of serious dam : OECD Test Guidelir sitization	age to eyes.
Product: Remarks Components: sodium dodecyl sulpha Species Result Method Respiratory or skin sen Skin sensitization	: The product causes membranes. te: : Rabbit : Risk of serious dam : OECD Test Guidelir sitization vailable information.	age to eyes.
Product: Remarks Components: sodium dodecyl sulpha Species Result Method Respiratory or skin sen Skin sensitization Not classified based on a Respiratory sensitizatio Not classified based on a	: The product causes membranes. te: : Rabbit : Risk of serious dam : OECD Test Guidelir sitization vailable information.	age to eyes.
Product: Remarks Components: sodium dodecyl sulpha Species Result Method Respiratory or skin sen Skin sensitization Not classified based on a Respiratory sensitizatio	: The product causes membranes. te: : Rabbit : Risk of serious dam : OECD Test Guidelir sitization vailable information.	age to eyes.
Product: Remarks Components: sodium dodecyl sulpha Species Result Method Respiratory or skin sen Skin sensitization Not classified based on a Respiratory sensitizatio Not classified based on a Product:	: The product causes membranes. te: : Rabbit : Risk of serious dam : OECD Test Guidelin sitization vailable information. n vailable information. : No data available	age to eyes.



інапір га	st DNA Stool Mini Kit (50)					
ersion D	Revision Date: 09/05/2021	Date of last issue: - Date of first issue: 09/05/2021				
Carcinoger	nicity					
-	d based on available information.					
IARC	No ingredient of this product presen	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.				
OSHA		No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.				
NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.					
Reproducti	ve toxicity					
Not classifie	ed based on available information.					
STOT-sing	e exposure					
Not classifie	d based on available information.					
<u>Componen</u>	ts:					
sodium do	decyl sulphate:					
Routes of ex Assessmen		atory irritation.				
STOT-repe	ated exposure					
-	d based on available information.					
Aspiration	toxicity					
-	ed based on available information.					
Further info						
Product:						
Remarks	: No data available					
ECTION 12. EC	COLOGICAL INFORMATION					
Ecotoxicity	,					
Product:						
Toxicity to fi	sh :					
-	Remarks: No data	a available				

Toxicity to algae/aquatic plants	:	Remarks: No data available
Toxicity to microorganisms	:	Remarks: No data available

Components:

lithium chloride:

Toxicity to fish	:	LC50: 17 mg/l
		Exposure time: 96 h



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sodium dodecyl sulphate: Toxicity to fish		NOEC (Oncorhynchus my Exposure time: 96 h	/kiss (rainbow trout)): 19.5 mg/l	
		LC50 (Oncorhynchus myk Exposure time: 96 h	kiss (rainbow trout)): 3.6 mg/l	
Toxicity to algae/aquatic plants	:	(Pseudokirchneriella subcapitata (green algae)): 2.68 mg/l Exposure time: 150 h Test Type: Growth inhibition		
Persistence and degradab No data available	ility			
Bioaccumulative potential				
Product: Bioaccumulation	:	Remarks: No data availab	le	
Components:				
sodium dodecyl sulphate: Partition coefficient: n- octanol/water	:	log Pow: 1.6		
Mobility in soil No data available				
Other adverse effects				
<u>Product:</u> Ozone-Depletion Potential	:	Protection of Stratospheric Substances Remarks: This product ne manufactured with a Class	ction of Environment; Part 82 c Ozone - CAA Section 602 Class I ither contains, nor was s I or Class II ODS as defined by th n 602 (40 CFR 82, Subpt. A, App.A	
Additional ecological information	:	No data available		

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	Send to a licensed waste management company. Dispose of as hazardous waste in compliance with local and national regulations.
Contaminated packaging	:	Dispose of as unused product. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations



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UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
acetic acid	64-19-7	5000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	No SARA Hazards	

SARA 313	:	This material does not contain any chemical components with
		known CAS numbers that exceed the threshold (De Minimis)
		reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

sodium acetate trihydrate 6131-90-4

>= 1 - < 5 %

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

acetic acid 64-19-7 >= 0.1 - < 1 % The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

acetic acid 64-19-7 >= 0.1 - < 1 % This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307



This product does not contain any priority pollutants related to the U.S. Clean Water Act

Maine Chemicals of High Concern

This product does not contain any chemicals that are listed as Maine Chemicals of High Concern.

Maine Chemicals of High Concern

Product does not contain any listed chemicals

California List of Hazardous Substances

Polyvinyl pyrrolidone

9003-39-8

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; AIIC - Australian Inventory of Industrial Chemicals: ASTM - American Society for the Testing of Materials: bw - Body weight: CERCLA -Comprehensive Environmental Response, Compensation, and Liability Act: CMR - Carcinogen. Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx -Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx -Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC -International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. -Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate: NTP - National Toxicology Program: NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ -Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB -Very Persistent and Very Bioaccumulative



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SDS Number	:	60000002955	

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SECTION 1. IDENTIFICATION

Product name : QIAamp Mini Spin Column (1)

Manufacturer or supplier's details

Emergency telephone

: CHEMTREC USA & Canada 1-800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components

SECTION 4. FIRST AID MEASURES

Most important symptoms : None known. and effects, both acute and delayed

SECTION 5. FIRE-FIGHTING MEASURES

SECTION 6. ACCIDENTAL RELEASE MEASURES

SECTION 7. HANDLING AND STORAGE

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

SECTION 10. STABILITY AND REACTIVITY

SECTION 11. TOXICOLOGICAL INFORMATION

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity No data available



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Persistence and degradability No data available Bioaccumulative potential No data available Mobility in soil No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

SECTION 14. TRANSPORT INFORMATION

International Regulations

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

SECTION 15. REGULATORY INFORMATION

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA -Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation: DSL - Domestic Substances List (Canada): ECx -Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx -Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC -International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk: IC50 - Half maximal inhibitory concentration: ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. -Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand



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Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ -Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB -Very Persistent and Very Bioaccumulative

SDS Number	:	60000004049
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Revision Date : 09/05/2021

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SECTION 1. IDENTIFICATION				
Product name	: Buffer AL-T/M			
Manufacturer or supplier	s details			
Company	: QIAGEN GmbH QIAGEN Str. 1 D-40724 Hilden			
Telephone	: +49-(0)2103-29-0			
Responsible Department	: QIAGEN Inc. 19300 Germantown Ro Germantown, MD 2087 Tel.: 800-426-8157 http://support.qiagen.co	74, USA		
E-mail addressResponsible/issuin person	: cpc@qiagen.com g			
Emergency telephone	: CHEMTREC USA & Canada 1-800-4	424-9300		

Recommended use of the chemical and restrictions on use

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)		
Skin irritation	:	Category 2
Eye irritation	:	Category 2A
Skin sensitization	:	Category 1
GHS label elements Hazard pictograms	:	!
Signal Word	:	Warning
Hazard Statements	:	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.
Precautionary Statements	:	Prevention:



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P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before reuse.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)				
guanidine hydrochloride	50-01-1	>= 30 - < 50				
maleic acid	110-16-7	>= 0.1 - < 1				

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice	:	Move out of dangerous area. Show this material safety data sheet to the doctor in attendance.
If inhaled	:	If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	:	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.
In case of eye contact	:	Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	:	If accidentally swallowed obtain immediate medical attention. Rinse mouth with water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	:	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. No information available.
Notes to physician	:	No information available.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media :

: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.



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Specific hazards during fire fighting	:	Exposure to decomposition health.	on products may be a hazard to
Hazardous combustion products	:	Carbon oxides Nitrogen oxides (NOx)	
Further information Special protective equipment for fire-fighters	:		explosion do not breathe fumes. thing apparatus for firefighting if
SECTION 6. ACCIDENTAL RELE	EAS	E MEASURES	
Personal precautions, protective equipment and emergency procedures	:	Use personal protective e Avoid breathing dust/ fum	quipment. e/ gas/ mist/ vapors/ spray.
Environmental precautions	:	Prevent product from enter Prevent further leakage of	
Methods and materials for containment and cleaning up	:	Soak up with inert absorb acid binder, universal bind Keep in suitable, closed c	
SECTION 7. HANDLING AND ST	OR	AGE	
Advice on protection against fire and explosion	:	Normal measures for prev	ventive fire protection.
Advice on safe handling	:	Do not breathe vapors/du Avoid exposure - obtain s Avoid contact with skin an	pecial instructions before use.

		Avoid exposure - obtain special instructions before use.
		Avoid contact with skin and eyes.
		For personal protection see section 8.
		Smoking, eating and drinking should be prohibited in the application area.
		Dispose of rinse water in accordance with local and national regulations.
		Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Conditions for safe storage	:	Keep container tightly closed in a dry and well-ventilated place.
Further information on storage stability	:	No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipment

Hand protection

Material

: Protective gloves



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Remarks	its material but also from one producer to given by the produce	propriate glove does not only depend on on other quality features and is different o the other. Take note of the information er concerning permeability and break of special workplace conditions duration of contact).		
Eye protection	: Safety glasses Wear face-shield an problems.	d protective suit for abnormal processing h stations and safety showers are close		
Skin and body protection		tion according to the amount and dangerous substance at the work place.		
Hygiene measures	: Keep away from foo Wash hands before Ensure adequate ve Keep working clothe	d and drink. breaks and at the end of workday. entilation, especially in confined areas. es separately. ne skin and the eyes.		
SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES				
Appearance	: liquid			
Color	: colorless			

Odor	:	No data available
Odor Threshold	:	No data available
рН	:	ca. 6
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Burning rate	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available
Density	:	ca. 1.16 g/cm3 (ca. 77 °F / 25 °C)



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Solubility(ies)		
Water solubility	: soluble	
Solubility in other solvents	s : No data available	
Partition coefficient: n-	: No data available	
octanol/water		
Autoignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity		
Viscosity, dynamic	: No data available	
Viscosity, kinematic	: No data available	
Explosive properties	: No data available	
Ovidiaira proportion		
Oxidizing properties	: No data available	

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reactions	 No decomposition if stored and applied as directed. No decomposition if stored and applied as directed. Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions. Keep away from oxidizing agents, and acidic or alkaline products.
Conditions to avoid Incompatible materials Hazardous decomposition products	 No data available No data available No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Product:		
Acute oral toxicity	:	Remarks: No data available
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	Remarks: No data available
Components:		

Components:

guanidine hydrochloride:		
Acute oral toxicity	:	LD50 Oral (Rat): 1,120 mg/k

Acute oral toxicity : LD	050 Oral (Rat): 1,120 mg/kg
--------------------------	-----------------------------

maleic acid:



: (Rat) Expose : LD50 : May of : 24 h : Mild s irritation on.	Oral (Rat): 708 mg/kg : 0.72 mg/l sure time: 1 h Dermal (Rabbit): 1,560 mg/kg cause skin irritation and/or dermatitis. it skin irritation
Expos : LD50 : May of : 24 h : Mild s irritation on.	sure time: 1 h Dermal (Rabbit): 1,560 mg/kg cause skin irritation and/or dermatitis. it
: May o : Rabbi : 24 h : Mild s irritation on.	cause skin irritation and/or dermatitis. it skin irritation
: Rabbi : 24 h : Mild s irritation on.	it skin irritation
: Rabbi : 24 h : Mild s irritation on.	it skin irritation
: Rabbi : 24 h : Mild s irritation on.	it skin irritation
: 24 h : Mild s irritation on.	skin irritation
: 24 h : Mild s irritation on.	skin irritation
: 24 h : Mild s irritation on.	skin irritation
: Mild s irritation on.	
irritation on.	
on.	cause irreversible eye damage.
	cause irreversible eye damage.
: May c	cause irreversible eye damage.
: May c	cause irreversible eye damage.
: Rabbi	it
: Eye ir	ritation
itization	
reaction.	
n	
ailable informa	ation.
: Cause	es sensitization.
ailable informa	ation.
ent of this pro	ation. duct present at levels greater than or equal to 0.1% is ossible or confirmed human carcinogen by IARC.
nent of this pr	oduct present at levels greater than or equal to 0.1% is ted carcinogens.
	vailable inform vailable inform ient of this pro as probable, p onent of this pr



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NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

Components:

maleic acid:

Routes of exposure	:	Inhalation
Assessment	:	May cause respiratory irritation.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks

: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product: Toxicity to fish :	Remarks: No data available	
Toxicity to algae/aquatic : plants	Remarks: No data available	
Toxicity to microorganisms :	Remarks: No data available	
Components:		
maleic acid:		
Toxicity to fish :	LC50 (Pimephales promelas (fathead minnow)): 5 Exposure time: 96 h	mg/l
	LC0 (Lepomis macrochirus (Bluegill sunfish)): 300 Exposure time: 96 h	mg/l
Toxicity to daphnia and other : aquatic invertebrates	EC100 (Daphnia magna (Water flea)): 160 mg/l Exposure time: 48 h	
	EC50 (Daphnia magna (Water flea)): 160 mg/l Exposure time: 48 h	



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	EC100 (Daphnia r Exposure time: 24	magna (Water flea)): 200 mg/l I h
Toxicity to algae/aquatic plants	: EC50 (Desmodes Exposure time: 72	mus subspicatus (green algae)): 41 mg/l ? h
Persistence and degradab	ility	
Components:		
guanidine hydrochloride: Biodegradability	Remarks: Accordi	est Guideline 301C ng to the results of tests of biodegradability readily biodegradable.
Bioaccumulative potential		
Product: Bioaccumulation	: Remarks: No data	available
Components:		
guanidine hydrochloride: Partition coefficient: n- octanol/water	: log Pow: ca1.7 ((68 °F / 20 °C)
Mobility in soil No data available		
Other adverse effects		
Product:		
Ozone-Depletion Potential	Protection of Strat Substances Remarks: This pro manufactured with	R Protection of Environment; Part 82 tospheric Ozone - CAA Section 602 Class oduct neither contains, nor was n a Class I or Class II ODS as defined by th t Section 602 (40 CFR 82, Subpt. A, App.A
Additional ecological information	: No data available	

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal	methods
----------	---------

Waste from residues	:	Send to a licensed waste management company.
		Dispose of as hazardous waste in compliance with local and
		national regulations.
Contaminated packaging	:	Dispose of as unused product.
		Do not re-use empty containers.



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SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
kaustiskā soda	1310-73-2	1000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	Respiratory or skin sensitization Skin corrosion or irritation Serious eye damage or eye irritation
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:



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	maleic acid	110-16-7	>= 0.1 - < 1 %					
	kaustiskā soda	1310-73-2	>= 0.1 - < 1 %					
The follo 117.3:	The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:							
	maleic acid	110-16-7	>= 0.1 - < 1 %					
	kaustiskā soda	1310-73-2	>= 0.1 - < 1 %					
307	This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307							
This proc	This product does not contain any priority pollutants related to the U.S. Clean Water Act							
Maine Chemicals of High Concern								
	This product does not contain any chemicals that are listed as Maine Chemicals of High Concern.							

Maine Chemicals of High Concern

Product does not contain any listed chemicals

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA -Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx -Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx -Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice: HMIS - Hazardous Materials Identification System: IARC - International Agency for Research on Cancer: IATA - International Air Transport Association: IBC -International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. -Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ -



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Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

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