

SAFETY DATA SHEET

Version 2.1

Issue Date 21-Jun-2018

1. IDENTIFICATION

Revision Date 21-Jun-2018

<u>Product identifier</u> Product Name	Presence - Absence Test, Disposable
Other means of identification Product Code(s)	2323250

Safety data sheet number M00867

Recommended use of the chemical and restrictions on use				
Recommended Use Detection of coliform bacteria.				
Uses advised against	None.			
Restrictions on use	None.			

Details of the supplier of the safety data sheet

Manufacturer Address

Hach Company P.O.Box 389 Loveland, CO 80539 USA +1(970) 669-3050

Emergency telephone number

+1(303) 623-5716 - 24 Hour Service +1(515)232-2533 - 8am - 4pm CST

2. HAZARDS IDENTIFICATION

Classification

Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Chronic aquatic toxicity	Category 3

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Hazard statements

The product contains no substances which at their given concentration, are considered to be hazardous to health

H412 - Harmful to aquatic life with long lasting effects

Precautionary statements

P273 - Avoid release to the environment

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

Other Hazards Known

EN / AGHS

Page 1/13

Harmful to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance Not applicable

<u>Mixture</u>

Percent ranges are used where confidential product information is applicable.

Chemical name	CAS No.	Percent Range	HMRIC #
Phenol,	115-40-2	<1%	-
4,4-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis[2-bromo-6-methyl-			
Sodium lauryl sulfate	151-21-3	<1%	-

4. FIRST AID MEASURES

Description of first aid measures

General advice	No hazards which require special first aid measures. Use first aid treatment according to the nature of the injury.
Inhalation	Remove to fresh air.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash skin with soap and water.
Ingestion	Clean mouth with water and drink afterwards plenty of water.
Most important symptoms and effe	cts, both acute and delayed
Symptoms	See Section 11 for additional Toxicological Information.
Indication of any immediate medica	I attention and special treatment needed
Note to physicians	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable Extinguishing Media	Caution: Use of water spray when fighting fire may be inefficient.
Specific hazards arising from the chemical	No information available.
Hazardous combustion products	No information available.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

6. ACCIDENTAL RELEASE MEASURES

U.S. Notice	Only persons properly qualified to respond to an emergency involving hazardous substances may respond to a spill according to federal regulations (OSHA 29 CFR 1910.120(a)(v)) and per your company's emergency response plan and guidelines/procedures. See Section 13, Special Instructions for disposal assistance. Outside of the US, only persons properly qualified according to state or local regulations should respond to a spill involving chemicals.
Personal precautions, protective ed	quipment and emergency procedures
Personal precautions	Ensure adequate ventilation.
Environmental precautions	
Environmental precautions	See Section 12 for additional ecological information.
Methods and material for containm	ent and cleaning up
Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.
Reference to other sections	See section 8 for more information. See section 13 for more information.

7. HANDLING AND STORAGE

Precautions for safe handling			
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice.		
Conditions for safe storage, including any incompatibilities			
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.		
Flammability class	Not applicable		

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters	
Exposure Guidelines	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies
<u>Appropriate engineering controls</u> Engineering Controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, su	ch as personal protective equipment
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Hand Protection	Wear suitable gloves.
Eye/face protection	Wear safety glasses with side shields (or goggles).
EN / AGHS	Page 3/

Product Code(s) 2323250	Product Name Presence - Absence Test, Disposable	
Issue Date 21-Jun-2018	Revision Date 21-Jun-2018	
Version 2.1	Page 4 / 13	
Skin and body protection	No special protective equipment required.	
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.	
Environmental exposure controls	Local authorities should be advised if significant spillages cannot be contained. Do not allow into any sewer, on the ground or into any body of water.	
Thermal hazards	None under normal processing.	

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Appearance Odor	aqueous solution Not determined	Liquid		Color Odor threshold	Dark red-pu No data ava	
Property_			Values			Remarks • Method
Molecular weight			No data availat	ble		
рН			6.8			
Melting point/free	ezing point		No data availat	ble		
Boiling point / bo	iling range		~ 100 °C / 21	12 °F		Estimation based on theoretical calculation
Evaporation rate			No data availat	ble		
Vapor pressure			No data availat	ble		
Vapor density (ai	r = 1)		0.62 (air = 1)			
Specific gravity (water = 1 / air = 1)		No data availat	ble		
Partition Coeffici	ent (n-octanol/wate	er)	Not applicable			
Soil Organic Carl Coefficient	oon-Water Partition	า	Not applicable			
Autoignition tem	perature		No data availat	ble		
Decomposition te	emperature		No data availat	ble		
Dynamic viscosit	y		No data availat	ble		
Kinematic viscos	ity		No data availat	ble		
Solubility(ies)						

Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature	
Soluble	> 1000 mg/L	25 °C / 77 °F	

Solubility in other solvents

None reported No information available No data available	No information available

Product Name Presence - Absence Test, Disposable Revision Date 21-Jun-2018 Page 5 / 13

Other Information

Metal Corrosivity

Steel Corrosion Rate Aluminum Corrosion Rate

No data available No data available

Volatile Organic Compounds (VOC) Content

Chemical name	CAS No.	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
Phenol, 4,4-(1,1-dioxido-3H-2,1-benzoxathiol-3 -vlidene)bis[2-bromo-6-methyl-	115-40-2	No data available	-
Sodium lauryl sulfate	151-21-3	No data available	-

Explosive properties

Upper explosion limit Lower explosion limit		No data available No data available
Flammable properties		
Flash point		No data available
Flammability Limit in Air Upper flammability limit Lower flammability limit		No data available No data available
Oxidizing properties		No data available.
Bulk density		No data available
Particle Size	No information available	
Particle Size Distribution	No information available	

10. STABILITY AND REACTIVITY

Reactivity Not applicable. Chemical stability Stability

Stable under normal conditions.

Explosion data Sensitivity to Mechanical Impact None Sensitivity to Static Discharge None.

Possibility of Hazardous Reactions Possibility of Hazardous Reactions None under normal processing.

Hazardous polymerization None under normal processing.

Conditions to avoid

Product Name Presence - Absence Test, Disposable Revision Date 21-Jun-2018 Page 6 / 13

Conditions to avoid None known based on information supplied.

Incompatible materials Incompatible materials

Strong oxidizing agents, strong acids, and strong bases.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure Product Information

Inhalation	No known effect based on information supplied.
Eye contact	No known effect based on information supplied.
Skin contact	No known effect based on information supplied.
Ingestion	No known effect based on information supplied.
Symptoms	No information available.

Aggravated Medical ConditionsNone known.Toxicologically synergisticNone known.productsNone known.Toxicokinetics, metabolism andNo information available.distributionNone known.

Product Acute Toxicity Data	
Oral Exposure Route	No data available
Dermal Exposure Route	No data available
Inhalation (Dust/Mist) Exposure Route	No data available
Inhalation (Vapor) Exposure Route	No data available
Inhalation (Gas) Exposure Route	No data available

Unknown Acute Toxicity

0.01% of the mixture consists of ingredient(s) of unknown toxicity.

Acute Toxicity Estimations (ATE)

ATEmix (oral)	No information available
ATEmix (dermal)	No information available
ATEmix (inhalation-dust/mist)	No information available
ATEmix (inhalation-vapor)	No information available
ATEmix (inhalation-gas)	No information available

Ingredient Acute Toxicity Data

Oral Exposure Route		If available, see data below							
Chemical name	Endp	oint type	Reported dose	Exposure time		cological fects	Key literature references and sources for data		
Sodium lauryl sulfa (<1%) CAS#: 151-21-3		Rat _D50	>= 977 mg/kg	None reported	None	reported	IUCLID (The International Uniform Chemical Information Database)		
Dermal Exposure Route If available, see data below									
Chemical name	Endpoint	Reported	Exposure	Toxicological effe	ects	Key literat	ure references and		

Product Name Presence - Absence Test, Disposable Revision Date 21-Jun-2018 Page 7 / 13

	type	dose	time		sources for data
Sodium lauryl sulfate	Rabbit	300 mg/kg	None	None reported	IUCLID (The International
(<1%)	LD50		reported		Uniform Chemical Information
CAS#: 151-21-3					Database)
Inhalation (Dust/Mist) Exposure Route If available, see data below					
Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time	_	sources for data
Sodium lauryl sulfate	Rat	> 62.4 mg/L	4 hours	None reported	Vendor SDS
(<1%)	LC50	_			
CAS#: 151-21-3					
Inhalation (Vanor) Ex	nosure Route			If available see data below	·

Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route If available, see data below If available, see data below

Product Specific Target Organ Toxicity Single Exposure Data

Oral Exposure RouteNo data availableDermal Exposure RouteNo data availableInhalation (Dust/Mist) Exposure RouteNo data availableInhalation (Vapor) Exposure RouteNo data availableInhalation (Gas) Exposure RouteNo data availableNo data availableNo data available

Ingredient Specific Target Organ Toxicity Single Exposure Data

Oral Exposure Route	If available, see data below
Dermal Exposure Route	If available, see data below
Inhalation (Dust/Mist) Exposure Route	If available, see data below
Inhalation (Vapor) Exposure Route	If available, see data below
Inhalation (Gas) Exposure Route	If available, see data below

Aspiration toxicity No data available

<u>Product Skin Corrosion/Irritation Data</u> No data available.

Ingredient Skin Corrosion/Irritation Data

If available, see data below

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Sodium lauryl sulfate	Standard Draize	Human	25 mg	24 hours	Mild skin irritant	RTECS (Registry of
(<1%)	Test		_			Toxic Effects of
CAS#: 151-21-3						Chemical Substances)

Product Serious Eye Damage/Eye Irritation Data

No data available.

Ingredient Eye Damage/Eye Irritation Data

If available, see data below

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Sodium lauryl sulfate	Standard Draize	Rabbit	10 mg	None	Eye irritant	RTECS (Registry of
(<1%)	Test			reported		Toxic Effects of
CAS#: 151-21-3				-		Chemical Substances)

Sensitization Information

<u>Product Sensitization Data</u> Skin Sensitization Exposure Route Respiratory Sensitization Exposure Route

Ingredient Sensitization Data

Product Code(s) 2323250 Issue Date 21-Jun-2018 Version 2.1		Re	Product Name Presence - Absence Test, Disposa Revision Date 21-Jun-2018 Page 8 / 13				
Skin Sensitization Exposu			vailable, see data be				
Respiratory Sensitization	Exposure Route	lf a	If available, see data below.				
Chronic Toxicity Informati	on						
Product Specific Target O	rgan Toxicity Repe	at Dose Data					
Oral Exposure Route	• • •		data available.				
Dermal Exposure Route		No	data available.				
Inhalation (Dust/Mist) Exp	osure Route	No	data available.				
Inhalation (Vapor) Exposu		No	No data available.				
Inhalation (Gas) Exposure	Route	No	No data available.				
Ingredient Specific Target	Organ Toxicity Rep			I			
Oral Exposure Route			vailable, see data be				
Dermal Exposure Route			vailable, see data bel				
Inhalation (Dust/Mist) Exp			vailable, see data be vailable, see data be				
Inhalation (Vapor) Exposu Inhalation (Gas) Exposure			vailable, see data be				
Initialation (Gas) Exposure	Roule	11 0	valiable, see uala be	10 W			
Product Carcinogenicity D	Data						
Oral Exposure Route		No	No data available				
Dermal Exposure Route		No	No data available				
Inhalation (Dust/Mist) Exp	osure Route	No	No data available				
Inhalation (Vapor) Exposu	re Route	No	No data available				
Inhalation (Gas) Exposure	Route	No	data available				
Ingredient Carcinogenicity	/ Data						
Chemical name	CAS No.	ACGIH	IARC	NTP	OSHA		
Phenol,	115-40-2	-	-	-	-		
4.4-(1.1-dioxido-3H-2.1-be							

	Chemical hame	CA3 NO.	АССІП	IARC	NIF .	USHA
	Phenol,	115-40-2	-	-	-	-
4	,4-(1,1-dioxido-3H-2,1-be					
n	zoxathiol-3-ylidene)bis[2-					
	bromo-6-methyl-					
	Sodium lauryl sulfate	151-21-3	-	-	-	-

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)	Does not apply
IARC (International Agency for Research on Cancer)	Does not apply
NTP (National Toxicology Program)	Does not apply
OSHA (Occupational Safety and Health Administration of the US Department of	Does not apply
Labor)	

Oral Exposure Route Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route If available, see data below If available, see data below

<u>Product Germ Cell Mutagenicity</u> *invitro* Data No data available.

Ingredient Germ Cell Mutagenicity invitro Data

If available, see data below

Chemical name	Test	Cell Strain	Reported	Exposure	Results	Key literature
			dose	time		references and
						sources for data
Sodium lauryl sulfate	DNA inhibition	Human	100 mg/L	None	Positive test result for	RTECS (Registry
(<1%)		lymphocyte	_	reported	mutagenicity	of Toxic Effects of
CAS#: 151-21-3						Chemical
						Substances)
Chemical name	Test	Cell Strain	Reported	Exposure	Results	Key literature

EN / AGHS

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Product Name Presence - Absence Test, Disposable Revision Date 21-Jun-2018 Page 9/13

			dose	time		references and sources for data
Sodium lauryl sulfate	DNA damage	Rat liver	0.243 mmol/L	None	Positive test result for	RTECS (Registry
(<1%)				reported	mutagenicity	of Toxic Effects of
CAS#: 151-21-3						Chemical
						Substances)

Product Germ Cell Mutagenicity invivo Data **Oral Exposure Route Dermal Exposure Route** Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

Ingredient Germ Cell Mutagenicity invivo Data **Oral Exposure Route Dermal Exposure Route** Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route Product Reproductive Toxicity Data **Oral Exposure Route Dermal Exposure Route** Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

Ingredient Reproductive Toxicity Data **Oral Exposure Route** Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

No data available No data available No data available No data available No data available

If available, see data below If available, see data below

No data available No data available No data available No data available No data available

If available, see data below If available, see data below If available, see data below If available, see data below

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects

Product Ecological Data

Aquatic toxicity

Fish Crustacea Algae

No data available No data available No data available

Ingredient Ecological Data

Aquatic toxicity

Fish		lf a	If available, see ingredient data below			
Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data	
Phenol, 4,4-(1,1-dioxido-3H-2 ,1-benzoxathiol-3-ylid ene)bis[2-bromo-6-m ethyl- (<1%) CAS#: 115-40-2		None reported	LC ₅₀	0.096 mg/L	Estimation through ECOSARS v1.11 part of the Estimation Programs Interface (EPI) Suite™	

Product Name Presence - Absence Test, Disposable Revision Date 21-Jun-2018 Page 10 / 13

		1					
96 hours	Brachydanio rerio	LC ₅₀	7.97 mg/L	IUCLID (The International			
				Uniform Chemical Information			
				Database)			
	lf a	ivailable, see i	ngredient data l	pelow			
Exposure	Species	Endpoint	Reported	Key literature references and			
time		type	dose	sources for data			
48 Hours	None reported	EC ₅₀	0.079 mg/L	Estimation through ECOSARS			
			_	v1.11 part of the Estimation			
				Programs Interface (EPI) Suite™			
				3			
48 Hours	Artemia salina	LC50	3.15 mg/L	IUCLID (The International			
			Ŭ	Uniform Chemical Information			
				Database)			
	lf a	vailable, see i	ngredient data t				
Exposure	Species	Endpoint	Reported	Key literature references and			
time	-	type	dose	sources for data			
96 hours	None reported	EC ₅₀	0.281 mg/L	Estimation through ECOSARS			
			-	v1.11 part of the Estimation			
				Programs Interface (EPI) Suite™			
				3			
72 Hours	Nitzschia sp.	EC ₅₀	20 mg/L	IUCLID (The International			
	•		Ĭ	Uniform Chemical Information			
				Database)			
	time 48 Hours 48 Hours 48 Hours Exposure time 96 hours	Exposure time If a Exposure time Species 48 Hours None reported 48 Hours Artemia salina 48 Hours If a 5 If a 6 If a 1 If a	If available, see i Exposure time Species Endpoint type 48 Hours None reported ECso 48 Hours Artemia salina LCso 48 Hours Artemia salina LCso 11 available, see i If available, see i 200 available Econ 48 Hours Artemia salina 12 available, see i Exposure 13 available, see i Endpoint 14 bours None reported	If available, see ingredient data to the trime Exposure time Species Endpoint type Reported dose 48 Hours None reported EC50 0.079 mg/L 48 Hours Artemia salina LC50 3.15 mg/L 48 Hours Artemia salina LC50 3.15 mg/L Exposure time Species Endpoint type dose 96 hours None reported EC50 0.281 mg/L			

Other Information

Persistence and degradability

Product Biodegradability Data No data available.

Ingredient Biodegradability Data

Bioaccumulation

Product Bioaccumulation Data No data available.

Partition Coefficient (n-octanol/water)

Ingredient Bioaccumulation Data

Mobility

Soil Organic Carbon-Water Partition Coefficient

Not applicable

Not applicable

Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
Soluble	> 1000 mg/L	25 °C / 77 °F

Other adverse effects

Product Name Presence - Absence Test, Disposable Revision Date 21-Jun-2018 Page 11 / 13

No information available.

13. DISPOSAL CONSIDERATIONS							
Waste treatment methods	Waste treatment methods						
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.						
Contaminated packaging	Do not reuse empty containers.						
Special instructions for disposal	Used product Sterilize with bleach or by autoclaving. Unused product Make sure tubes are tightly capped. Place material in a plastic bag. Mark bag 'Non-hazardous trash', and dispose of as normal refuse.						
	14. TRANSPORT INFORMATION						
U.S. DOT	Not regulated						
TDG	Not regulated						
IATA	Not regulated						
IMDG	Not regulated						

Additional information

There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is not in a reagent set or kit, the classification given above applies.

If the item is part of a reagent set or kit the classification would change to the following:

UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.

If the item is not regulated, the Chemical Kit classification does not apply.

15. REGULATORY INFORMATION

National Inventories	
TSCA	Complies
DSL/NDSL	Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

International Inventories	
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
TCSI	Complies
AICS	Complies
NZIoC	Complies

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances **ENCS** - Japan Existing and New Chemical Substances **IECSC** - China Inventory of Existing Chemical Substances **KECL** - Korean Existing and Evaluated Chemical Substances

Product Name Presence - Absence Test, Disposable Revision Date 21-Jun-2018 Page 12 / 13

PICCS - Philippines Inventory of Chemicals and Chemical Substances **TCSI** - Taiwan Chemical Substances Inventory **AICS** - Australian Inventory of Chemical Substances **NZIOC** - New Zealand Inventory of Chemicals

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories	
Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

U.S. EPA Label Information

Chemical name	FIFRA	FDA
Sodium lauryl sulfate	180.0940	-

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

Special Comments

None

Additional information

Global Automotive Declarable Substance List (GADSL) Not applicable

NFPA and HMIS Classifications

NFPA	Health hazards - 0	Flammability - 0	Instability - 0	Physical and Chemical Properties -
HMIS	Health hazards - 0	Flammability - 0	Physical Hazards - 0	Personal protection - X - See section 8 for more information

Key or legend to abbreviations and acronyms used in the safety data sheet

NIOSH IDLH ACGIH NDF	, , ,	Immediately Dangerous to Life or Health ACGIH (American Conference of Governmental Industrial Hygienists) no data				
Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION						
TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)			
MAC	Maximum Allowable Concentration	Ceiling	Ceiling Limit Value			
X	Listed	Vacated	These values have no official status. The only binding levels of contaminants are those listed in the final OSHA PEL. These lists are for reference purposes only. Please note that some reference state regulations of these "liberated" exposure limits in their state regulations.			
SKN* RSP+ C M	Skin designation Respiratory sensitization Carcinogen mutagen	SKN+ ** R	Skin sensitization Hazard Designation Reproductive toxicant			
Prenared By	Hach Product Compliance Department					

Prepared By Hach Product Compliance Department

None

Issue Date 21-Jun-2018

Revision Date 21-Jun-2018

Revision Note

Disclaimer

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

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End of Safety Data Sheet