

Issue Date 17-Mar-2017

SAFETY DATA SHEET

Version 2.1

1. IDENTIFICATION Product identifier **Product Name** Nitrogen, Ammonia Standard Solution Ampule 150 mg/l as NH3-N Other means of identification Product Code(s) 2128410 Safety data sheet number M00969 Recommended use of the chemical and restrictions on use **Recommended Use** Standard solution. Uses advised against None. **Restrictions on use** None.

Revision Date 08-Feb-2018

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)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

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

Other Hazards Known

Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

EN / AGHS

Page 1/13

Issue Date 17-Mar-2017 Version 2.1

Substance Not applicable

<u>Mixture</u>

Percent ranges are used where confidential product information is applicable.

Chemical name		CAS No.	Percent Range	HMRIC #	
Ammoni	12125-02-9	<0.1%	-		
	4. FIRST AID MEASURI	ES			
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	ects, both acute and delayed				
Symptoms	See Section 11 for additional Toxicological Information.				
Indication of any immediate medica	al attention and special treatment need	ed			
Note to physicians	Treat symptomatically.				
5. FIRE-FIGHTING MEASURES					
Suitable Extinguishing Media	edia Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.				
Unsuitable Extinguishing Media	inguishing Media Caution: Use of water spray when fighting fire may be inefficient.				

Specific hazards arising from the No information available. chemical

Hazardous combustion products	This material will not burn.
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.
	1910.120(a)(v)) and per your company's emergency response plan and

Issue Date 17-Mar-2017 Version 2.1 Product Name Nitrogen, Ammonia Standard Solution Ampule 150 mg/l as NH₃-N Revision Date 08-Feb-2018 Page 3 / 13

Outside of the US, only persons properly qualified according to state or local regulations should respond to a spill involving chemicals.

Personal precautions, protective equipment 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	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
 Handle in accordance with good industrial hygiene and safety practice.

 Conditions for safe storage, including any incompatibilities
 Example in a dry, cool and well-ventilated place.

 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

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ammonium chloride	STEL: 20 mg/m ³	(vacated) TWA: 10 mg/m ³	TWA: 10 mg/m ³ fume
CAS#: 12125-02-9	TWA: 10 mg/m ³	(vacated) STEL: 20 mg/m ³	STEL: 20 mg/m ³ fume

Appropriate engineering controls Engineering Controls

Showers Eyewash stations Ventilation systems.

Respiratory protection	s, such as personal protective equipment 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).
Skin and body protection	No special protective equipment required.
EN / AGHS	Page 3/13

Product Code(s) 2128410 Issue Date 17-Mar-2017 Version 2.1	Product Name Nitrogen, Ammonia Standard Solution Ampule 150 mg/l as NH ₃ -N Revision Date 08-Feb-2018 Page 4 / 13
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 None	Liquid		Color Odor threshold	colorless No data ava	ailable
Property_			Values			Remarks • Method
Molecular weight	t		No data availat	ble		
рН			5.4			
Melting point/free	ezing point		~ 0 °C / 32 °	ŶF		Estimation based on theoretical calculation
Boiling point / bo	iling range		~ 100 °C / 2	12 °F		Estimation based on theoretical calculation
Evaporation rate			0.78			
Vapor pressure			23.777 mm Hg	/ 3.17 kPa at 25	°C / 77 °F	Estimation based on theoretical calculation
Vapor density (ai	r = 1)		0.62 (air = 1)			
Specific gravity (water = 1 / air = 1)		0.984			
Partition Coeffici	ent (n-octanol/wate	er)	Not applicable			
Soil Organic Carl	bon-Water Partition	ı	Not applicable			
Autoignition tem	perature		No data availat	ble		
Decomposition to	emperature		No data availat	ble		
Dynamic viscosi	^t y		~ 0.984 cP (mF	Pas) at 20 °C / 68	3 °F	
Kinematic viscos	sity		~ 1 cSt (mm²/s) at 20 °C / 68 °F		
Solubility(ies)						

Water solubility

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

Solubility in other solvents

Issue Date 17-Mar-2017 Version 2.1 Product Name Nitrogen, Ammonia Standard Solution Ampule 150 mg/l as NH₃-N Revision Date 08-Feb-2018 Page 5 / 13

Chemical Name	Solubility classification	<u>Solubility</u>	Solubility Temperature
None reported	No information available	No data available	No information available

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)
Ammonium chloride	12125-02-9	No data available	-

Explosive properties

Upper explosion limit Lower explosion limit		No data available No data available
Flammable properties		
Flash point Method		No data available No information available
Flammability Limit in Air Upper flammability limit: Lower flammability limit:		No data available No data available
Oxidizing properties		No data available.
Bulk density		Not applicable
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.

<u>Possibility of Hazardous Reactions</u> Possibility of Hazardous Reactions None under normal processing.

Hazardous polymerization

None under normal processing.

Issue Date 17-Mar-2017 Version 2.1 Product Name Nitrogen, Ammonia Standard Solution Ampule 150 mg/l as NH₃-N Revision Date 08-Feb-2018 Page 6 / 13

Conditions to avoid 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 Conditions Toxicologically synergistic products Toxicokinetics, metabolism and distribution	None known. None known. No information available.

Product Acute Toxicity Data Oral Exposure Route Dermal 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, and data below

Unknown Acute Toxicity

0% 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					
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Ammonium chloride (<0.1%) CAS#: 12125-02-9	Rat LD50	1650 mg/kg	None reported	None reported	IUCLID (The International Uniform Chemical Information Database)
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Ammonium chloride	Mouse	1300 mg/kg	None	None reported	IUCLID (The International

Issue Date 17-Mar-2017 Version 2.1

(<0.1%) CAS#: 12125-02-9	LD ₅₀		reported		Uniform Chemical Information Database)			
Dermal Exposure Ro				If available, see data below				
Inhalation (Dust/Mist) Exposure Route				If available, see data below				
Inhalation (Vapor) Ex	posure Route	•		If available, see data below				
Inhalation (Gas) Exposure Route				If available, see data below				

Product Specific Target Organ Toxicity Single Exposure 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

Ingredient Specific Target Organ Toxicity Single Exposure Data

Oral Exposure Route	e		-	If available, see data below			
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data		
Ammonium chloride (<0.1%) CAS#: 12125-02-9	Domestic mammal - Not specified LDLo	1500 mg/kg	None reported	Lungs, Thorax, or Respiration Respiratory stimulation	RTECS (Registry of Toxic Effects of Chemical Substances)		
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 If available, see data below If available, see data below			

<u>Aspiration toxicity</u> If available, see data below Kinematic viscosity

~ 1 cSt (mm²/s)

Product Skin Corrosion/Irritation Data

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
Ammonium chloride (<0.1%) CAS#: 12125-02-9	Existing human experience	Human	None reported	None reported	Mild skin irritant	RTECS (Registry of Toxic Effects of Chemical Substances)

Product Serious Eye Damage/Eye Irritation Data

No data available.

Ingredient Eye Damage/Eye Irritation Data

If available, see data below

Sensitization Information

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

No data available. No data available.

Ingredient Sensitization Data Skin Sensitization Exposure Route

If ava	ilahle	992	data	below

Chemical name	Test method	Species	Results	Key literature references and sources for data
Ammonium chloride	OECD Test No.	Guinea pig	Not confirmed to be a skin sensitizer	OECD (Organization for Economic

Issue Date 17-Mar-2017 Version 2.1

(<0.1%) CAS#: 12125-02-9	406: Skir Sensitizatio				Co-operation	and Development)		
Respiratory Sensitiza		-		If available, see data below.				
	-			·				
Chronic Toxicity Info	rmation							
Product Specific Tar	get Organ To:	<u>kicity Repeat I</u>	Dose Data					
Oral Exposure Route				No data available.				
Dermal Exposure Ro				No data available.				
Inhalation (Dust/Mist Inhalation (Vapor) Ex				No data available. No data available.				
Inhalation (Gas) Expo		3		No data available.				
Ingredient Specific Ta Oral Exposure Route		OXICITY Repea	t Exposure L	If available, see data below				
Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key litera	ature references and		
	type	dose	time	5		urces for data		
Ammonium chloride	Rat	3500 mg/kg	7 days	Nutritional and Gross		6 (Registry of Toxic		
(<0.1%)	TDLo			Metabolic		Effects of Chemical		
CAS#: 12125-02-9				Metabolic acidosis		Substances)		
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	-	ature references and urces for data		
Ammonium chloride	Rat	556000	78 weeks	Kidney, Ureter, or Bladde		6 (Registry of Toxic		
(<0.1%)		mg/kg	10 WOOKO	Changes in tubules (includir				
CAS#: 12125-02-9		5.5		acute renal failure, acute tubu		Substances)		
				necrosis)		•		
Dermal Exposure Ro				If available, see data below				
Inhalation (Dust/Mist				If available, see data below				
Inhalation (Vapor) Ex		9		If available, see data below				
Inhalation (Gas) Expo	osure Route			If available, see data below				
Product Carcinogeni	city Data							
Oral Exposure Route				No data available				
Dermal Exposure Ro				No data available				
Inhalation (Dust/Mist				No data available				
Inhalation (Vapor) Ex		9		No data available				
Inhalation (Gas) Expo	sule Route			No data available				
Ingredient Carcinoge		<u></u>						
Chemical name		S No.	ACGIH	IARC	NTP	OSHA		
Ammonium chlorid	e 1212	25-02-9	-	-	-	-		
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. Issue Date 17-Mar-2017 Version 2.1 Product Name Nitrogen, Ammonia Standard Solution Ampule 150 mg/l as NH₃-N Revision Date 08-Feb-2018 Page 9 / 13

Ingredient Germ Cell Mutagenicity invitro Data

elow					
Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and sources for data
Cytogenetic analysis	Hamster fibroblast	400 mg/L	None reported	Positive test result for	
	Test Cytogenetic	Test Cell Strain Cytogenetic Hamster fibroblast	Test Cell Strain Reported dose Cytogenetic Hamster fibroblast 400 mg/L	Test Cell Strain Reported dose Exposure time Cytogenetic Hamster fibroblast 400 mg/L None	Test Cell Strain Reported dose Exposure time Results Cytogenetic Hamster fibroblast 400 mg/L None Positive test result for

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 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

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

Product Ecological Data

Aquatic toxicity

Fish Crustacea Algae No data available No data available No data available

Ingredient Ecological Data

Aquatic toxicity

Fish		If available, see ingredient data below			
Chemical name	Exposure	Species	Endpoint	Reported	Key literature references and
	time		type	dose	sources for data
Ammonium chloride (<0.1%)	96 hours	Oncorhynchus mykiss	LC50	3.98 mg/L	IUCLID (The International Uniform Chemical Information
CAS#: 12125-02-9					Database)

Issue Date 17-Mar-2017 Version 2.1

Product Name Nitrogen, Ammonia Standard Solution Ampule 150 mg/l as NH₃-N Revision Date 08-Feb-2018 **Page** 10/13

Crustacea	rustacea If available, see ingredient data below					
Chemical name	Exposure	Species	Endpoint	Reported	Key literature references and	
	time		type	dose	sources for data	
Ammonium chloride	48 Hours	Daphnia magna	LC50	161 mg/L	IUCLID (The International	
(<0.1%)				-	Uniform Chemical Information	
CAS#: 12125-02-9					Database)	
Algae		Ν	lo data available		·	
Other Information						
Persistence and deg	radability					
Product Biodegradat No data available.	oility Data					
Ingredient Biodegrad	lability Data					
Bioaccumulation						
Product Bioaccumul a No data available.	ation Data					
Partition Coefficient	(n-octanol/water)	Ν	lot applicable			
Ingredient Bioaccum	ulation Data					
Mobility						
Soil Organic Carbon-	Water Partition Co	efficient N	lot applicable			
Water solubility						
Water solubility	classification	Water sol	ubility	Wat	er Solubility Temperature	
Solu	ble	> 1000 r	mg/L		25 °C / 77 °F	

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

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	Open cold water tap completely, slowly pour the material to the drain. Allow cold water to run for 5 minutes to completely flush the system.

14. TRANSPORT INFORMATION

Issue Date 17-Mar-2017 Version 2.1 Product Name Nitrogen, Ammonia Standard Solution Ampule 150 mg/l as NH₃-N Revision Date 08-Feb-2018 Page 11 / 13

U.S. DOT	Not regulated
TDG	Not regulated
IATA	Not regulated
IMDG	Not regulated
Note:	No special precautions necessary.

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

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

<u>SARA 313</u>

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

Chemical name	SARA 313 - Threshold Values %
Ammonium chloride (CAS #: 12125-02-9)	1.0
SARA 311/312 Hazard Categories Acute health hazard Chronic Health Hazard Fire hazard Sudden release of pressure hazard	No No No

Issue Date 17-Mar-2017 Version 2.1 Product Name Nitrogen, Ammonia Standard Solution Ampule 150 mg/l as NH₃-N Revision Date 08-Feb-2018 Page 12 / 13

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)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Ammonium chloride 12125-02-9	5000 lb	-	-	Х

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

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Ammonium chloride 12125-02-9	5000 lb	-	RQ 5000 lb final RQ
12123-02-9			RQ 2270 kg final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Ammonium chloride	X	X	Х
12125-02-9			

U.S. EPA Label Information

Chemical name	FIFRA	FDA
Ammonium chloride	180.0920	21 CFR 184.1138

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

Special Comments

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

Issue Date 17-Mar-2017 Version 2.1

					- See section 8 for more information
Key or legend to	abbreviations an	d acronyms used in t	he safety data sheet	<u>t</u>	
NIOSH IDLH ACGIH NDF	Immediately Dangerous to Life or Health ACGIH (American Conference of Governmental Industrial Hygienists) no data				
Legend - Section	on 8: EXPOSURE (ONTROLS/PERSONA	AL PROTECTION		
TWA	TWA (time-weighted average)		STEL	STEL (Short Term Exposure Limit)	
MAC	Maximum Allowable Concentration		Ceiling	Ceiling Limit Value	
Х	Listed		Vacated	binding levels of co listed in the final OS for reference purpo some reference sta	no official status. The only ntaminants are those SHA PEL. These lists are ses only. Please note that te regulations of these e limits in their state
SKN* RSP+ C M	Skin designation Respiratory sensitization Carcinogen mutagen		SKN+ ** R	Skin sensitization Hazard Designation Reproductive toxica	
Prepared By		Hach Product Comp	pliance Department		
Issue Date 17-Mar-2017		17-Mar-2017			
Revision Date 08-Feb-20		08-Feb-2018	3		
Revision Note		None			
Disclaimor					

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