# HYDROLAB®

THE WORLD'S WATER

# SAFETY DATA SHEET

Issue Date 16-Aug-2018

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# 1. IDENTIFICATION

Product identifier

**Product Name** 

pH Reference Electrode Saturated KCI and AgCI

Other means of identification

Product Code(s)

005308HY

Safety data sheet number

M02174

Recommended use of the chemical and restrictions on use

Recommended Use

Analytical reagent.

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)

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

#### Hazards not otherwise classified (HNOC)

Not applicable

# <u>Label elements</u>

#### **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

#### <u>Substance</u>

Not applicable

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#### **Mixture**

Chemical name	CAS No.	Percent Range	HMRIC#
Silver chloride	7783-90-6	<1%	-
Ethyl alcohol	64-17-5	<0.01%	_
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	<0.01%	

# 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 effects, both acute and delayed

Symptoms See Section 11 for additional Toxicological Information.

Indication of any immediate medical 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 N

chemical

No information available.

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. Outside of the US, only persons properly qualified according to state or local regulations

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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 containment 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**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethyl alcohol	STEL: 1000 ppm	TWA: 1000 ppm	IDLH: 3300 ppm
CAS#: 64-17-5		TWA: 1900 mg/m <sup>3</sup>	TWA: 1000 ppm
		(vacated) TWA: 1000 ppm	TWA: 1900 mg/m <sup>3</sup>
		(vacated) TWA: 1900 mg/m³	·

# Appropriate engineering controls

**Engineering Controls** 

Showers

Eyewash stations Ventilation systems.

#### Individual protection measures, such 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).

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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

Liquid

Appearance Odor aqueous solution

None

Color

colorless

Odor threshold No data available

**Property** 

<u>Values</u>

Remarks • Method

Molecular weight

No data available

рΗ

No data available

Melting point/freezing point

No data available

Boiling point / boiling range

No data available

Evaporation rate

No data available

Vapor pressure

No data available

Vapor density (air = 1)

No data available

Specific gravity (water = 1 / air = 1)

1.17

Partition Coefficient (n-octanol/water)

No data available

Soil Organic Carbon-Water Partition Coefficient

No data available

**Autoignition temperature** 

No data available

**Decomposition temperature** 

No data available

Dynamic viscosity

No data available

Kinematic viscosity

No data available

Solubility(ies)

Water solubility

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

#### Solubility in other solvents

Chemical Name	Solubility classification	<u>Solubility</u>	Solubility Temperature
Acid	Soluble	> 1000 ma/L	25 °C / 77 °F

#### Other Information

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**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)
Silver chloride	7783-90-6	No data available	_
Ethyl alcohol	64-17-5	No data available	X
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	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

Conditions to avoid

None known based on information supplied.

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Incompatible materials

Incompatible materials

Strong oxidizing agents, strong acids, and strong bases.

#### Hazardous Decomposition Products

Chlorides. Potassium oxide.

# 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 None known.

Toxicologically synergistic

None known.

products

Toxicokinetics, metabolism and No information available.

distribution

	Chemical name	Toxicokinetics, metabolism and distribution					
		Small amounts are excereted unchanged in urine, sweat and breath. Most is metabolized to acetaldehyde and then to acetate, primarly in the liver.					
L							

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

**Unknown Acute Toxicity** 

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

# **Acute Toxicity Estimations (ATE)**

#### The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	9,136.00 mg/kg
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	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and

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	type	dose	time		sources for data
Silver chloride	Mouse LD50	> 10000	None	None reported	RTECS (Registry of Toxic
(<1%)		mg/kg	reported	·	Effects of Chemical
CAS#: 7783-90-6					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

Product Specific Target Organ Toxicity Single Exposure 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

Ingredient Specific Target Organ Toxicity Single Exposure Data

Oral Exposure Route If available, see data below

/				ii araiabio, oce data bolott			
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data		
Ethyl alcohol (<0.01%) CAS#: 64-17-5	Human TD⊾₀	500 mg/kg	None reported	Behavioral Depressed respiration	RTECS (Registry of Toxic Effects of Chemical Substances)		
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data		
Ethyl alcohol (<0.01%) CAS#: 64-17-5	Man TDto	2660 mg/kg	None reported	Behavioral Altered sleep time (including change in righting reflex)	RTECS (Registry of Toxic Effects of Chemical Substances)		

**Dermal Exposure Route** 

Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route

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

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Ethyl alcohol (<0.01%)	Human TC⊾₀	30 mg/L	4 hours	Peripheral Nerve and Sensation	RTECS (Registry of Toxic Effects of Chemical
CAS#: 64-17-5				Recording from afferent nerve	Substances)

Inhalation (Gas) Exposure Route

If available, see data below

# **Aspiration toxicity**

No data available

#### **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
Ethyl alcohol (<0.01%) CAS#: 64-17-5	Standard Draize Test	Rabbit	20 mg	24 hours	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

Chemical name	Test method	Species	Reported	Exposure	Results	Key literature
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			dose	time		references and sources for data
Ethyl alcohol (<0.01%)	Rinse Test	Rabbit	100 mg	4 seconds	Eye irritant	RTECS (Registry of Toxic Effects of
CAS#: 64-17-5						Chemical Substances)

#### Sensitization Information

Product Sensitization Data

Skin Sensitization Exposure Route Respiratory Sensitization Exposure Route No data available. No data available.

Ingredient Sensitization Data

Skin Sensitization Exposure Route

If available, see data below

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Chemical name	Test method	Species	Results	Key literature references and sources for data
Ethyl alcohol (<0.01%) CAS#: 64-17-5	Patch test	Human	Not confirmed to be a skin sensitizer	HSDB (Hazardous Substances Data Bank)

**Respiratory Sensitization Exposure Route** 

If available, see data below.

#### **Chronic Toxicity Information**

Product Specific Target Organ Toxicity Repeat Dose 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.

Ingredient Specific Target Organ Toxicity Repeat Exposure Data

Oral Exposure Route	)			If available, see data below			
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data		
Ethyl alcohol (<0.01%) CAS#: 64-17-5	Man TDto	4623000 mg/kg	4380 days	Brain and Coverings Other degenerative changes	RTECS (Registry of Toxic Effects of Chemical Substances)		
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data		
Ethyl alcohol (<0.01%) CAS#: 64-17-5	Human TDւօ	149 mg/kg	4 years	Skin and Appendages Dermatitis	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
Inhalation (Gas) Exposure Route
If available, see data below
If available, see data below

Product Carcinogenicity Data

Oral Exposure Route
Dermal Exposure Route
Inhalation (Dust/Mist) Exposure Route
Inhalation (Vapor) Exposure Route
Inhalation (Gas) Exposure Route

Ingredient Carcinogenicity Data

gredient Carchingementy Data										
Chemical name	CAS No.	ACGIH	IARC	NTP	OSHA					
Silver chloride	7783-90-6	-	•	-	-					
Ethyl alcohol	64-17-5	A3	Group 1	Known	Х					
Quaternary ammonium	68424-85-1	<u></u>	-	-						

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	compounds,			
b	enzyl-C12-16-alkyldimeth			
L	yl, chlorides			

#### 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

If available, see data below

Jiai Exposure Route	3			if available, see data below			
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data		
Ethyl alcohol (<0.01%) CAS#: 64-17-5	Mouse	320 mg/kg	50 weeks	<b>Blood</b> Lymphoma (including Hodgkin's disease) <b>Liver</b> Tumors	RTECS (Registry of Toxic Effects of Chemical Substances)		
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data		
Ethyl alcohol (<0.01%) CAS#: 64-17-5	Mouse	400000 mg/kg	57 weeks	Gastrointestinal Tumors	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

Product Germ Cell Mutagenicity invitro Data

No data available.

# Ingredient Germ Cell Mutagenicity invitro Data

If available, see data below

Chemical name	Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and sources for data
Ethyl alcohol (<0.01%) CAS#: 64-17-5	Sister chromatid exchange	Human lymphocyte	500 mg/L	72 hours	Positive test result for mutagenicity	RTECS (Registry of Toxic Effects of 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

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

Ingredient Germ Cell Mutagenicity invivo Data

Oral Exposure Route If available, see data below

Oral Exposure Route			II avaliable	e, see data be	OW	
Chemical name	Test	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Ethyl alcohol (<0.01%) CAS#: 64-17-5	Micronucleus test	Human	817600 mg/kg	6 years	Positive test result for mutagenicity	RTECS (Registry of Toxic Effects of Chemical Substances)

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**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

**Product Reproductive 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

**Ingredient Reproductive Toxicity Data** 

Oral Exposure Route

If available, see data below

Ziai Exposare itoate				n available, see data below		
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data	
Ethyl alcohol (<0.01%)	Woman TD⊾₀	4676280 mg/kg	100 days	Effects on Newborn	RTECS (Registry of Toxic Effects of Chemical	
CAS#: 64-17-5				Delayed effects	Substances)	
		1		Specific Developmental		
				Abnormalities		
				Craniofacial (including nose and		
				tongue)		
Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and	
	type	dose	time		sources for data	
Ethyl alcohol	Woman	41000 mg/kg	41 weeks	Effects on Newborn	RTECS (Registry of Toxic	
(<0.01%)	TD⊾			No reproductive or	Effects of Chemical	
CAS#: 64-17-5				developmental toxic effects	Substances)	
				observed		
				Drug dependence		
				Other neonatal measures or		
	1	1 1				

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

Other Information

Persistence and degradability

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**Product Biodegradability Data** 

No data available.

#### Ingredient Biodegradability Data

Chemical name	Test method	Biodegradation	Exposure time	Results
Potassium chloride (20 - 30%) CAS#: 7447-40-7	Inorganic Salt	None reported	None reported	Not readily biodegradable

#### Bioaccumulation

#### **Product Bioaccumulation Data**

No data available.

Partition Coefficient (n-octanol/water)

No data available

#### Ingredient Bioaccumulation Data

Chemical name	Test method	Exposure time	Species	Bioconcentrat ion factor (BCF)	Results
Ethyl alcohol (<0.01%) CAS#: 64-17-5	Estimation through BCFBAF v3.01 part of the Estimation Programs Interface (EPI) Suite™	None reported	None reported	BCF = 3.162	Does not have the potential to bioaccumula te

# Mobility

Soil Organic Carbon-Water Partition Coefficient

No data available

# Water solubility

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

#### Other adverse effects

Contains a substance with an endocrine-disrupting potential.

# 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

Dispose of material in an E.P.A. approved hazardous waste facility.

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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 %
Silver chloride (CAS #: 7783-90-6)	1.0

#### SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No

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Sudden release of pressure hazard

Reactive Hazard

No 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	GWA - Priority Pollutants	CWA - Hazardous Substances
Silver chloride 7783-90-6	_	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

# **US State Regulations**

# California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical name	California Proposition 65
Ethyl alcohol (CAS #: 64-17-5)	Carcinogen
	Developmental

WARNING: This product can expose you to chemicals including Ethyl alcohol, which is known to the State of California to cause cancer and birth defects or other reproductive harm.

For more information, go to <a href="http://www.P65Warnings.ca.gov">http://www.P65Warnings.ca.gov</a>

# U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Silver chloride	X	_	X
7783-90-6			
Ethyl alcohol	X	X	X
64-17-5			

# U.S. EPA Label Information

Chemical name	FIFRA	FDA
Ethyl alcohol	180.0910	21 CFR 184.1293
Quaternary ammonium compounds,	180.0940	-
benzyl-C12-16-alkyldimethyl, chlorides		

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

#### **Special Comments**

None

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# **Additional information**

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### Global Automotive Declarable Substance List (GADSL)

Chemical name	Global Automotive Declarable Substance List Classifications	Global Automotive Declarable Substance List Thersholds
Silver chloride 7783-90-6	Declarable Substance (LR)	0.0 %
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides 68424-85-1	Declarable Substance (LR) Prohibited Substance (LR)	0.0 %

# 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

Immediately Dangerous to Life or Health

ACGIH NDF 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

Х

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+ Skin designation Respiratory sensitization SKN+

R

Skin sensitization Hazard Designation Reproductive toxicant

C M Carcinogen mutagen

Prepared By

Hach Product Compliance Department

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16-Aug-2018

**Revision Date** 

16-Aug-2018

**Revision Note** 

None

# 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** 

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