

# SAFETY DATA SHEET

**Issue Date** 03-Jul-2019 **Revision Date** 03-Jul-2019 **Version** 1.2 **Page** 1 / 15

# 1. IDENTIFICATION

**Product identifier** 

Product Name Neodymium Chloride Solution

Other means of identification

Product Code(s) 1421042

Safety data sheet number M00564

UN/ID no UN1789

Recommended use of the chemical and restrictions on use

Recommended Use Standard solution.

Uses advised against None.

Restrictions on use Not applicable.

# 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

# 2. HAZARDS IDENTIFICATION

#### Classification

# **Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Corrosive to metals	Category 1
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

# Hazards not otherwise classified (HNOC)

Not applicable

# Label elements

# Signal word

Danger

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#### **Hazard statements**

H290 - May be corrosive to metals

H314 - Causes severe skin burns and eye damage

#### **Precautionary statements**

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

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

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

P363 - Wash contaminated clothing before reuse

P405 - Store locked up

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

P234 - Keep only in original container

P390 - Absorb spillage to prevent material damage

#### Other Hazards Known

None

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Substance**

Not applicable

#### **Mixture**

**Chemical Family** 

Mixture. Chemical nature Aqueous solution of inorganic acids and salts.

#### Percent ranges are used where confidential product information is applicable.

Chemical name	CAS No.	Percent Range	HMRIC #
Neodymium chloride (NdCl3)	10024-93-8	1 - 5%	-
Hydrochloric acid	7647-01-0	<1%	-

# 4. FIRST AID MEASURES

#### **Description of first aid measures**

Show this safety data sheet to the doctor in attendance. Immediate medical attention is General advice

required.

Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical Inhalation

attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical

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advice/attention.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open

while rinsing. Do not rub affected area. Get immediate medical advice/attention.

**Skin contact** Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Get immediate medical advice/attention.

Ingestion Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth

to an unconscious person. Do NOT induce vomiting. Get immediate medical

advice/attention.

Self-protection of the first aider

Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the

material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid direct contact with skin. Use barrier to give mouth-to-mouth

resuscitation.

Most important symptoms and effects, both acute and delayed

**Symptoms** Burning sensation.

Indication of any immediate medical attention and special treatment needed

**Note to physicians** Product is a corrosive material. Use of gastric lavage or emesis is contraindicated.

Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood

pressure may occur with moist rales, frothy sputum, and high pulse pressure.

# 5. FIRE-FIGHTING MEASURES

surrounding environment.

Unsuitable Extinguishing Media Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the

chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition

can lead to release of irritating gases and vapors.

**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. Use personal protection equipment.

# 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 equipment and emergency procedures

**Personal precautions** Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required. Attention! Corrosive material. Evacuate personnel to

safe areas. Keep people away from and upwind of spill/leak.

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**Other Information** Refer to protective measures listed in Sections 7 and 8.

Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Should not be released into the

environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

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. Avoid contact with

skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated

clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from

moisture. Store locked up. Keep out of the reach of children. Store away from other

materials.

Flammability class Not applicable

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### **Exposure Guidelines**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Hydrochloric acid	Ceiling: 2 ppm	(vacated) Ceiling: 5 ppm	IDLH: 50 ppm
CAS#: 7647-01-0		(vacated) Ceiling: 7 mg/m <sup>3</sup>	Ceiling: 5 ppm
		Ceiling: 5 ppm	Ceiling: 7 mg/m <sup>3</sup>
		Ceiling: 7 mg/m <sup>3</sup>	

Appropriate engineering controls

Engineering Controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

exceeded or irritation is experienced, ventilation and evacuation may be required.

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**Hand Protection** Wear suitable gloves. Impervious gloves.

Eye/face protection Face protection shield.

Skin and body protection Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this **General Hygiene Considerations** 

product. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Wash hands before breaks and immediately after handling the product.

Local authorities should be advised if significant spillages cannot be contained. Do not **Environmental exposure controls** 

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

Liquid Physical state

**Appearance** clear Color Dark red-purple Odor Odorless Not applicable Odor threshold

**Property** Values Remarks • Method

Not applicable Molecular weight

1.3 pН

~ -3 °C / 26.6 °F Melting point/freezing point

~ 101 °C / 213.8 °F Boiling point / boiling range

**Evaporation rate** 0.97 (water = 1)

17.327 mm Hg / 2.31 kPa at 20 °C / 68 °F Vapor pressure

Vapor density (air = 1) 0.64

1.036 Specific gravity (water = 1 / air = 1)

Partition Coefficient (n-octanol/water) No data available

**Soil Organic Carbon-Water Partition** 

**Autoignition temperature** 

Coefficient

No data available

No data available

**Decomposition temperature** No data available

~ 1 cP (mPa s) at 20 °C / 68 °F Dynamic viscosity

~ 0.965 cSt (mm<sup>2</sup>/s) at 20 °C / 68 °F Kinematic viscosity

Solubility(ies)

Water solubility

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

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#### Solubility in other solvents

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

#### Other Information

**Metal Corrosivity** 

Classified as corrosive to metal according to GHS criteria

Steel Corrosion Rate
Aluminum Corrosion Rate

8.18 mm/yr / 0.32 in/yr > 20.07 mm/yr / > 0.79 in/yr

### **Volatile Organic Compounds (VOC) Content**

Chemical name	CAS No.	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
Neodymium chloride (NdCl3)	10024-93-8	No data available	-
Hydrochloric acid	7647-01-0	Not applicable	-

#### **Explosive properties**

Upper explosion limitNot applicableLower explosion limitNot applicable

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 Not applicable

# 10. STABILITY AND REACTIVITY

### Reactivity

Not applicable.

#### Chemical stability

Stable under normal conditions.

#### **Explosion data**

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

# Possibility of Hazardous Reactions

None under normal processing.

#### **Hazardous polymerization**

Hazardous polymerization does not occur.

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#### Conditions to avoid

Exposure to air or moisture over prolonged periods.

#### Incompatible materials

Oxidizing agent. Acids. Bases.

# **Hazardous Decomposition Products**

Hydrogen chloride. metal oxides.

# 11. TOXICOLOGICAL INFORMATION

#### Information on Likely Routes of Exposure

#### **Product Information**

**Inhalation** Corrosive by inhalation. Inhalation of corrosive fumes/gases may cause coughing, choking,

headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs.

Pulmonary edema can be fatal.

**Eye contact** Causes burns. Corrosive to the eyes and may cause severe damage including blindness.

Causes serious eye damage. May cause irreversible damage to eyes.

**Skin contact** Corrosive. Causes severe burns. Avoid contact with skin and clothing.

**Ingestion** Causes burns. Ingestion causes burns of the upper digestive and respiratory tracts. May

cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung

damage if swallowed. May be fatal if swallowed and enters airways.

Symptoms Redness. Burning. May cause blindness. Coughing and/ or wheezing.

#### **Acute toxicity**

Based on available data, the classification criteria are not met

#### **Product Acute Toxicity Data**

No data available.

#### **Ingredient Acute Toxicity Data**

Test data reported below.

#### **Oral Exposure Route**

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Neodymium chloride (NdCl3) (1 - 5%)	Mouse LD50	3692 mg/kg	None reported	None reported	RTECS (Registry of Toxic Effects of Chemical Substances)
CAS#: 10024-93-8					Oubstances)

# **Dermal Exposure Route**

#### **Unknown Acute Toxicity**

0.000101% of the mixture consists of ingredient(s) of unknown toxicity.

# **Acute Toxicity Estimations (ATE)**

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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			

# Skin corrosion/irritation

Causes severe burns.

#### **Product Skin Corrosion/Irritation Data**

No data available.

# Ingredient Skin Corrosion/Irritation Data

Test data reported below.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Neodymium chloride (NdCl3) (1 - 5%) CAS#: 10024-93-8	Standard Draize Test	Rabbit	500 mg	24 hours	Data Source	RTECS (Registry of Toxic Effects of Chemical Substances)
Hydrochloric acid (<1%) CAS#: 7647-01-0	Existing human experience	Human	None reported	None reported	Corrosive to skin	RTECS (Registry of Toxic Effects of Chemical Substances)

#### Serious eye damage/irritation

Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.

# **Product Serious Eye Damage/Eye Irritation Data**

No data available.

# Ingredient Eye Damage/Eye Irritation Data

Test data reported below.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Neodymium chloride (NdCl3) (1 - 5%) CAS#: 10024-93-8	Standard Draize Test	Rabbit	50 mg	None reported	Data Source	RTECS (Registry of Toxic Effects of Chemical Substances)
Hydrochloric acid (<1%) CAS#: 7647-01-0	Existing human experience	Human	None reported	None reported	Corrosive to eyes	RTECS (Registry of Toxic Effects of Chemical Substances)

#### Respiratory or skin sensitization

Based on available data, the classification criteria are not met.

# **Product Sensitization Data**

No data available.

# **Ingredient Sensitization Data**

No data available.

### STOT - single exposure

Based on available data, the classification criteria are not met.

# **Product Specific Target Organ Toxicity Single Exposure Data**

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No data available.

#### Ingredient Specific Target Organ Toxicity Single Exposure Data

Test data reported below.

#### **Oral Exposure Route**

Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Hydrochloric acid	Man	2.857 mg/kg	None	Vascular	RTECS (Registry of Toxic
(<1%)	LDLo		reported	BP lowering not characterized in	Effects of Chemical
CAS#: 7647-01-0				autonomic section	Substances)
				Lungs, Thorax, or	
				Respiration	
				Respiratory depression	
				Gastrointestinal	
				Other changes	

# Inhalation (Vapor) Exposure Route

	Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Γ	Hydrochloric acid	Human	0.05 mg/L	None	Lungs, Thorax, or	RTECS (Registry of Toxic
	(<1%)	TCLo		reported	Respiration	Effects of Chemical
L	CAS#: 7647-01-0				Cough	Substances)

#### STOT - repeated exposure

Based on available data, the classification criteria are not met.

# **Product Specific Target Organ Toxicity Repeat Dose Data**

No data available.

# Ingredient Specific Target Organ Toxicity Repeat Exposure Data

Test data reported below.

# Inhalation (Vapor) Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Hydrochloric acid	Rat	0.000685	84 days	Behavioral	RTECS (Registry of Toxic
(<1%)	TCL₀	mg/L		Muscle contraction or spasticity	Effects of Chemical
CAS#: 7647-01-0				Biochemical	Substances)
				Enzyme inhibition, induction, or	
				change in blood or tissue levels	
				(true cholinesterase)	
				Kidney, Ureter, or Bladder	
				Other changes in urine	
				composition	

# Carcinogenicity

Based on available data, the classification criteria are not met.

# **Product Carcinogenicity Data**

No data available.

# **Ingredient Carcinogenicity Data**

No data available.

Chemical name	CAS No.	ACGIH	IARC	NTP	OSHA
Neodymium chloride	10024-93-8	-	-	-	

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(NdCl3)					
Hydrochloric acid	7647-01-0	=	Group 3	=	X

#### 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)	

#### **Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

# Product Germ Cell Mutagenicity invitro Data

No data available.

# Ingredient Germ Cell Mutagenicity invitro Data

Test data reported below.

Chemical name	Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and sources for data
Hydrochloric acid (<1%) CAS#: 7647-01-0	Cytogenetic analysis	Hamster lung	30 mmol/L	None reported	Positive test result for mutagenicity	RTECS (Registry of Toxic Effects of Chemical Substances)

### Product Germ Cell Mutagenicity invivo Data

No data available.

# Ingredient Germ Cell Mutagenicity invivo Data

No data available.

#### Reproductive toxicity

Based on available data, the classification criteria are not met.

# **Product Reproductive Toxicity Data**

No data available.

# **Ingredient Reproductive Toxicity Data**

Test data reported below.

### Inhalation (Dust/Mist) Exposure Route

Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Hydrochloric acid	Rat	0.450 mg/L	1 hours	Effects on Embryo or Fetus	RTECS (Registry of Toxic
(<1%)	TCLo			Fetotoxicity (except death e.g.	Effects of Chemical
CAS#: 7647-01-0				stunted fetus) Specific	Substances)
				<b>Developmental Abnormalities</b>	
				Homeostasis	

#### **Aspiration hazard**

Based on available data, the classification criteria are not met.

# 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

Based on available data, the classification criteria are not met.

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Unknown aquatic toxicity 0.0001% of the mixture consists of components(s) of unknown hazards to the aquatic

environment.

**Product Ecological Data** 

**Aquatic Acute Toxicity** No data available.

**Aquatic Chronic Toxicity** No data available.

Ingredient Ecological Data

**Aquatic Acute Toxicity** No data available.

**Aquatic Chronic Toxicity** No data available.

Persistence and degradability

**Product Biodegradability Data** 

No data available.

Bioaccumulation

**Product Bioaccumulation Data** 

No data available.

Partition Coefficient (n-octanol/water) No data available

**Mobility** 

**Soil Organic Carbon-Water Partition Coefficient** No data available

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.

**US EPA Waste Number** D002

Special instructions for disposal Dilute to 3 to 5 times the volume with cold water. Adjust to a pH between 6 and 9 with an

alkali, such as soda ash or sodium bicarbonate. If permitted by regulation. Open cold water tap completely, slowly pour the reacted material to the drain. Check with local municipal and state authorities and waste contractors for pertinent local information regarding the

proper disposal of chemicals.

# 14. TRANSPORT INFORMATION

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DOT

UN/ID no UN1789

Proper shipping name Hydrochloric acid

Hazard Class 8
Packing Group ||

**Description** UN1789, Hydrochloric acid, 8, III

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Number

TDG

UN/ID no UN1789

Proper shipping name Hydrochloric acid

Hazard Class 8
Packing Group III

**Description** UN1789, Hydrochloric acid, 8, III

IATA

UN/ID no UN1789

Proper shipping name Hydrochloric acid

Hazard Class 8
Packing Group III
ERG Code 8L
Special precautions for user A3, A803

IMDG

**UN/ID no** UN1789

Proper shipping name Hydrochloric acid

Hazard Class 8
Packing Group III
EmS-No F-A, S-B
Special precautions for user 223

**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

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**EINECS/ELINCS** Complies

ENCS Does not comply IECSC Complies

IECSC
KECL
Complies
PICCS
Complies
Complies
Complies
Complies
Complies
AICS
NZIOC
Does not comply

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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**

# **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

Chemical name	SARA 313 - Threshold Values %
Hydrochloric acid (CAS #: 7647-01-0)	1.0
SARA 311/312 Hazard Categories	
Acute health hazard	Yes
Chronic Health Hazard	Yes
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)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Hydrochloric acid 7647-01-0	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)
Hydrochloric acid	5000 lb	5000 lb	RQ 5000 lb final RQ
7647-01-0			RQ 2270 kg final RQ

# U.S. - Department of Homeland Security - Chemical Facility Anti-Terrorism Standards (CFATS) - Security Issues

Chemical name	U.S Department of Homeland Security - Chemical Facility Anti-Terrorism Standards (CFATS) - Security Issues
Hydrochloric acid (<1%) CAS#: 7647-01-0	Release - Toxic (concentration >=37%); Release - Toxic (anhydrous); Theft - Weapons of Mass Effect (anhydrous)

#### U.S. - DEA (Drug Enforcement Administration) List I & List II

Chemical name	U.S DEA (Drug Enforcement Administration) - List I or Precursor Chemicals	U.S DEA (Drug Enforcement Administration) - List II or Essential Chemicals
Hydrochloric acid (<1%) CAS#: 7647-01-0	Not Listed	0.0 kg Domestic Sales Weight (listed under anhydrous Hydrogen chloride); 50 gallon Export Volume (exports, transshipments and international transactions to designated countries); 27 kg Export Weight (exports,

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transshipments and international
transactions to designated countries,
listed under anhydrous Hydrogen
chloride)

### **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

IMERC: Not applicable

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

This product may contain substances regulated by state right-to-know regulations.

Chemical name	New Jersey	Massachusetts	Pennsylvania
Hydrochloric acid	X	X	X
7647-01-0			

#### **U.S. EPA Label Information**

Chemical name	FIFRA	FDA
Hydrochloric acid	180.0910	21 CFR 182.1057

# 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 - 3	Flammability - 0	Instability - 0	Physical and chemical properties -
HMIS	Health hazards - 3	Flammability - 0	Physical hazards - 0	Personal protection - X

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

NIOSH IDLH Immediately Dangerous to Life or Health

ACGIH (American Conference of Governmental Industrial Hygienists)

NDF no data

### <u>Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION</u>

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

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for reference purposes only. Please note that some reference state regulations of these "liberated" exposure limits in their state regulations.

SKN\* Skin designation Skin sensitization SKN+ Respiratory sensitization Hazard Designation RSP+ Reproductive toxicant С Carcinogen R

Μ mutagen

**Prepared By** Hach Product Compliance Department

**Issue Date** 03-Jul-2019

03-Jul-2019 **Revision Date** 

**Revision Note** SDS sections updated

#### **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.

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**End of Safety Data Sheet** 

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