

Issue Date 26-02-2019

# SAFETY DATA SHEET

Version 2.4

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1. IDENTIFICATION			
Product identifier Product Name	SPADNS2 (Arsenic-Free) Fluoride Reagent, AccuVac Ampules		
Other means of identification Product Code(s)	2527025		
Safety data sheet number	M02594		
UN/ID no	UN1789		
Recommended use of the chemic	al and restrictions on use		
Recommended Use	Water Analysis. Determination of fluoride.		
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, Lovel	land, CO 80539, USA, +1(970) 669-3050		

Revision Date 08-Feb-2023

#### 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, and 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
P363 - Wash contaminated clothing before reuse
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P405 - Store locked up
P501 - Dispose of contents/ container to an approved waste disposal plant
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
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

<u>Mixture</u>

Chemical Family Mixture.

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

Chemical name	CAS No	Percent Range	HMRIC #
Hydrochloric acid	7647-01-0	10 - 20%	-
Zirconium oxychloride	7699-43-6	<0.1%	-

## 4. FIRST AID MEASURES

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

General adviceShow this safety data sheet to the doctor in attendance. Immediate medical attention is<br/>required.InhalationRemove to fresh air. If breathing has stopped, give artificial respiration. Get medical<br/>attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the<br/>substance; give artificial respiration with the aid of a pocket mask equipped with a one-way<br/>valve or other proper respiratory medical device. If breathing is difficult, (trained personnel<br/>should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical<br/>advice/attention.

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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 effe	ects, both acute and delayed
Symptoms	Burning sensation.
Indication of any immediate medic	al 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
Suitable Extinguishing Media	5. FIRE-FIGHTING MEASURES
Suitable Extinguishing Media	5. FIRE-FIGHTING MEASURES Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the
	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable Extinguishing Media Specific hazards arising from the	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Caution: Use of water spray when fighting fire may be inefficient. The product causes burns of eyes, skin and mucous membranes. Thermal decomposition
Unsuitable Extinguishing Media Specific hazards arising from the chemical	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Caution: Use of water spray when fighting fire may be inefficient. The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors.
Unsuitable Extinguishing Media Specific hazards arising from the chemical Hazardous combustion products Special protective equipment for	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Caution: Use of water spray when fighting fire may be inefficient. The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. This material will not burn. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.
Unsuitable Extinguishing Media Specific hazards arising from the chemical Hazardous combustion products Special protective equipment for	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Caution: Use of water spray when fighting fire may be inefficient. The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. This material will not burn. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
Unsuitable Extinguishing Media Specific hazards arising from the chemical Hazardous combustion products Special protective equipment for fire-fighters U.S. Notice	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Caution: Use of water spray when fighting fire may be inefficient. The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. This material will not burn. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. <b>6. ACCIDENTAL RELEASE MEASURES</b> 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
Unsuitable Extinguishing Media Specific hazards arising from the chemical Hazardous combustion products Special protective equipment for fire-fighters U.S. Notice	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Caution: Use of water spray when fighting fire may be inefficient. The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. This material will not burn. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. <b>6. ACCIDENTAL RELEASE MEASURES</b> 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.

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#### 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 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. 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

## 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>	5
Zirconium oxychloride CAS#: 7699-43-6	STEL: 10 mg/m <sup>3</sup> Zr TWA: 5 mg/m <sup>3</sup> Zr	TWA: 5 mg/m <sup>3</sup> (vacated) TWA: 5 mg/m <sup>3</sup>	IDLH: 25 mg/m <sup>3</sup> Zr TWA: 5 mg/m <sup>3</sup> except
		(vacated) STEL: 10 mg/m <sup>3</sup>	Zirconium tetrachloride Zr STEL: 10 mg/m <sup>3</sup> Zr

## Appropriate engineering controls

Engineering Controls

Showers Eyewash stations Ventilation systems.

Not applicable

## 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.

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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.
General Hygiene Considerations	Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this 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.
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	Liquid aqueous solution Acidic	Color Odor threshold	dark red No data available
Property_		<u>Values</u>	Remarks • Method
Molecular weight	t	No data available	
рН		< 0.5	
Melting point / fro	ezing point	< -10 °C / 14 °F	
Initial boiling poi	nt and boiling range	105 °C / 221 °F	
Evaporation rate		0.97 (water = 1)	
Vapor pressure		21.827 mm Hg / 2.91 kPa at 2	25 °C / 77 °F
Relative vapor de	ensity	0.67	
Specific Gravity		1.02	
Partition coefficie	ent	Not applicable	
Soil Organic Carl	bon-Water Partition	Not applicable	
Autoignition tem	perature	No data available	
Decomposition te	emperature	No data available	
Dynamic viscosi	<sup>t</sup> y	No data available	
Kinematic viscos	sity	No data available	
Solubility(ies)			
Water solubility			

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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
None reported	No information available	No data available	No information available

#### **Other information**

Metal Corrosivity Classified as corrosive to metal according to GHS criteria 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)
Hydrochloric acid	7647-01-0	Not applicable	-
Zirconium oxychloride	7699-43-6	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

## **10. STABILITY AND REACTIVITY**

## Reactivity

Corrosive on contact with water. Corrosive to metal.

#### 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**

None under normal processing.

#### Conditions to avoid

Exposure to air or moisture over prolonged periods.

#### Incompatible materials

Oxidizing agent. Acids. Bases.

#### Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

## **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	May cause irritation.
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.
ymptoms	Redness. Burning. May cause blindness. Coughing and/ or wheezing.

# Sy

Acute toxicity

Based on available data, the classification criteria are not met

#### Mixture

No data available.

## **Ingredient Acute Toxicity Data**

No data available.

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Zirconium oxychloride (<0.1%) CAS#: 7699-43-6	Rat LD <sub>50</sub>	2950 mg/kg	None reported	None reported	RTECS

#### **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

#### Skin corrosion/irritation

May cause skin irritation.

#### **Mixture**

No data available.

#### Ingredient Skin Corrosion/Irritation Data

No data available.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Hydrochloric acid (10 - 20%) CAS#: 7647-01-0	Existing human experience	Human	None reported	None reported	Corrosive to skin	RTECS

#### Serious eye damage/irritation

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

#### Mixture

No data available.

#### Ingredient Eye Damage/Eye Irritation Data

No data available.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Hydrochloric acid (10 - 20%) CAS#: 7647-01-0	Existing human experience	Human	None reported	None reported	Corrosive to eyes	RTECS

#### **Respiratory or skin sensitization**

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

#### Mixture

No data available.

#### **Ingredient Sensitization Data**

No data available.

#### STOT - single exposure

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

#### Mixture

No data available.

## Ingredient Specific Target Organ Toxicity Single Exposure Data

No data available.

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Hydrochloric acid (10 - 20%) CAS#: 7647-01-0	Man LD⊾₀	2.857 mg/kg	None reported	Vascular BP lowering not characterized in autonomic section Lungs, Thorax, or Respiration Respiratory depression Gastrointestinal	RTECS

				Other changes	
Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Hydrochloric acid	Human	0.05 mg/L	None reported	Lungs, Thorax, or	RTECS
(10 - 20%)	TCLo	-		Respiration	
CAS#: 7647-01-0				Cough	

## STOT - repeated exposure

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

#### Mixture

No data available.

#### Ingredient Specific Target Organ Toxicity Repeat Exposure Data No data available.

Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Hydrochloric acid	Rat	0.000685	84 days	Behavioral	RTECS
(10 - 20%)	TCLO	mg/L	-	Muscle contraction or spasticity	
CAS#: 7647-01-0		-		Biochemical	
				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.

#### Mixture

No data available.

## Ingredient Carcinogenicity Data

No data available.

Chemical name	CAS No	ACGIH	IARC	NTP	OSHA
Hydrochloric acid	7647-01-0	-	Group 3	-	Х
Zirconium oxychloride	7699-43-6	-	-	-	-

#### Legend

ACGIH (American Conference of Governmental Industrial Hygienists)	Does not apply
IARC (International Agency for Research on Cancer)	Group 3 - Not classifiable as a human
	carcinogen
NTP (National Toxicology Program)	Does not apply
OSHA	X - Present

### Germ cell mutagenicity

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

#### Mixture invitro Data

No data available.

## Substance invitro Data

No data available.

Chemical name	Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and sources for data
Hydrochloric acid	Cytogenetic	Hamster lung	30 mmol/L	None reported	Positive test result for	

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(10 - 20%) CAS#: 7647-01-0	analysis				mutagenicity	
Zirconium oxychloride (<0.1%) CAS#: 7699-43-6	Mutation in microorganisms	Salmonella typhimurium	None reported	None reported	Negative	HSDB

#### Mixture invivo Data

No data available.

#### Substance invivo Data

No data available.

#### **Reproductive toxicity**

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

#### Mixture

No data available.

#### Ingredient Reproductive Toxicity Data

No data available.

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Hydrochloric acid (10 - 20%) CAS#: 7647-01-0	Rat TC⊾	0.450 mg/L	1 hours	Effects on Embryo or Fetus Fetotoxicity (except death e.g. stunted fetus) Specific Developmental Abnormalities Homeostasis	RTECS

#### Aspiration hazard

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

## **12. ECOLOGICAL INFORMATION**

#### Ecotoxicity

Unknown aquatic toxicity

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

**Mixture** 

Aquatic Acute Toxicity No data available.

Aquatic Chronic Toxicity No data available.

#### Substance

Aquatic Acute Toxicity No data available.

Aquatic Chronic Toxicity No data available.

#### Persistence and degradability

**Mixture** No data available.

Mixture No data available. Product Code(s) 2527025

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Partition coefficient

<u>Mobility</u>

Soil Organic Carbon-Water Partition Coefficient

Other adverse effects No information available Product Name SPADNS2 (Arsenic-Free) Fluoride Reagent, AccuVac Ampules Revision Date 08-Feb-2023 Page 11 / 15

Not applicable

Not applicable

# 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

## **14. TRANSPORT INFORMATION**

DOT UN/ID no Proper shipping name Transport hazard class(es) Packing Group Description Emergency Response Guide Number	UN1789 Hydrochloric acid solution 8 II UN1789, Hydrochloric acid solution, 8, II 157
<u>TDG</u> UN/ID no Proper shipping name Transport hazard class(es) Packing Group Description	UN1789 Hydrochloric acid solution 8 II UN1789, Hydrochloric acid solution, 8, II
IATA UN number or ID number Proper shipping name Transport hazard class(es) Packing group ERG Code Special precautions for user	UN1789 Hydrochloric acid solution 8 II 8L A3, A803
IMDG UN number or ID number Proper shipping name Transport hazard class(es) Packing Group EmS-No	UN1789 Hydrochloric acid solution 8 II F-A, S-B
Note:	No special precautions necessary.

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### 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

Complies
Does not comply
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**

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or 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

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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
 C. Dementionent of Homelon.	Convertes Chambred Featility A	uti Tannaniana Ctan danda (CEAT	C) Coourity Incurs

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 (10 - 20%) 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	Not Listed	0.0 kg Domestic Sales Weight (listed
(10 - 20%)		under anhydrous Hydrogen chloride);
CAS#: 7647-01-0		50 gallon Export Volume (exports,
		transshipments and international
		transactions to designated countries
		given in 1310.08(b)); 27 kg Export
		Weight (exports, transshipments and
		international transactions to designated
		countries given in 1310.08(b), listed
		under anhydrous Hydrogen chloride)

## US State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals

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

This product does not contain any substances regulated by state right-to-know regulations.

Chemical name	New Jersey	Massachusetts	Pennsylvania
Hydrochloric acid 7647-01-0	Х	X	Х
Zirconium oxychloride 7699-43-6	-	Х	-

#### 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)

EN / AGHS

## 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 - I

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

ACGIH ATSDR CCRIS CDC CEPA CICAD ECHA EEA EPA ERMA ECOSARS FDA GESTIS HSDB INERIS IPCS INCHEM IUCLID NITE NIH NIOSH LOLI NDF NICNAS NIOSH IDLH OSHA PEEN RTECS SIDS SYKE USDA USDC WHO	ATSDR (Agency fo CCRIS (Chemical 0 CDC (Center for Di CEPA (Canadian E CICAD (Concise In ECHA (The Europe EEA (European En EPA (Environmenta ERMA (New Zeala) Estimation through FDA (Food & Drug GESTIS (Informat Insurance) HSDB (Hazardous INERIS (The Natio) IPCS INCHEM (Int IUCLID (The Intern Japan National Instit NIOSH (National Instit NIOSH (National Instit NIOSH (National In LOLI (List of Lists - no data Australia National I Immediately Dange OSHA (Occupation PEEN (Pan Europe RTECS (Registry o SIDS (Screening In The Finnish Enviro USDA (United Stat USDC (United Stat	HSDB (Hazardous Substances Data Bank) INERIS (The National Industrial Environment and Risks Institute) IPCS INCHEM (International Programme on Chemical Safety) IUCLID (The International Uniform Chemical Information Database) Japan National Institute of Technology and Evaluation (NITE) NIH (National Institutes of Health) NIOSH (National Institute for Occupational Safety and Health) LOLI (List of Lists - An International Chemical Regulatory Database)	
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*	Skin designation	SKN+	Skin sensitization

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RSP+ C M	Respiratory sensitiz Carcinogen mutagen	ation ** R	Hazard Designation Reproductive toxicant
Prepared By		Hach Product Compliance Departmen	t
Issue Date	:	26-02-2019	
<b>Revision Date</b>		08-Feb-2023	
<b>Revision Note</b>		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**