

# SAFETY DATA SHEET

 Issue Date
 26-02-2019
 Revision Date
 Version
 2.2
 Page
 1 / 15

10-Aug-2021

1. IDENTIFICATION

**Product identifier** 

Product Name SPADNS2 (Arsenic-Free) Fluoride Reagent

Other means of identification

Product Code(s) 2947517

Safety data sheet number M02594

UN/ID no UN1789

Recommended use of the chemical 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 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

EN / AGHS Page 1/15

**Product Name** SPADNS2 (Arsenic-Free) Fluoride Reagent

Revision Date 10-Aug-2021

Page 2/15



#### **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

### **Mixture**

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

required.

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

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

advice/attention.

EN / AGHS Page 2/15

Product Code(s) 2947517 Issue Date 26-02-2019

Version 2.2

Product Name SPADNS2 (Arsenic-Free) Fluoride Reagent

Revision Date 10-Aug-2021

**Page** 3 / 15

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.

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

clothes and shoes. Get immediate medical advice/attention.

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

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

Burning sensation. **Symptoms** 

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

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

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

Specific hazards arising from the

chemical

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

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

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

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

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

EN / AGHS Page 3 / 15

Product Name SPADNS2 (Arsenic-Free) Fluoride Reagent Revision Date 10-Aug-2021

Page 4 / 15

**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.

Clean contaminated objects and areas thoroughly observing environmental regulations. Prevention of secondary hazards

See section 8 for more information. See section 13 for more information. Reference to other sections

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

Individual protection measures, such as personal protective equipment

No protective equipment is needed under normal use conditions. If exposure limits are Respiratory protection exceeded or irritation is experienced, ventilation and evacuation may be required.

EN / AGHS Page 4 / 15

**Product Name** SPADNS2 (Arsenic-Free) Fluoride Reagent

Revision Date 10-Aug-2021

Page 5/15

**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 Liquid

Appearance aqueous solution Color dark red

Odor Acidic Odor threshold No data available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Molecular weight No data available

**pH** < 0.5

Melting point/freezing point < -10 °C / 14 °F

Boiling point / boiling range 105 °C / 221 °F

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

Vapor pressure 21.827 mm Hg  $\,/\,$  2.91 kPa at 25 °C  $\,/\,$  77 °F

Relative vapor density 0.67

Specific gravity (water = 1 / air = 1) 1.02

Partition Coefficient (n-octanol/water) Not applicable

**Soil Organic Carbon-Water Partition** 

Coefficient
Autoignition temperature

No data available

Not applicable

**Decomposition temperature**No data available

Dynamic viscosity No data available

Kinematic viscosity

No data available

Solubility(ies)

Water solubility

EN / AGHS Page 5/15

**Product Name** SPADNS2 (Arsenic-Free) Fluoride Reagent **Revision Date** 10-Aug-2021

D---- 0/45

**Page** 6 / 15

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

### Solubility in other solvents

Chemical Name	Solubility classification	Solubility	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 limitNo data availableLower explosion limitNo data available

### Flammable properties

Flash point No data available

Flammability Limit in Air

Upper flammability limit:No data availableLower flammability limit:No data availableOxidizing propertiesNo data available.

Bulk density

No data available

# 10. STABILITY AND REACTIVITY

# Reactivity

Not applicable. 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.

EN / AGHS Page 6/15

Product Name SPADNS2 (Arsenic-Free) Fluoride Reagent

Revision Date 10-Aug-2021

**Page** 7 / 15

### **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.

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**

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 (Registry of Toxic Effects of Chemical Substances)
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	None reported	None reported	None reported	None reported	No information available

### **Unknown Acute Toxicity**

0% of the mixture consists of ingredient(s) of unknown toxicity.

EN / AGHS Page 7/15

**Product Name** SPADNS2 (Arsenic-Free) Fluoride Reagent

Revision Date 10-Aug-2021

**Page** 8 / 15

### **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.

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

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 (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

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 (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**

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	Man	2.857 mg/kg	None	Vascular	RTECS (Registry of Toxic

EN / AGHS Page 8/15

Product Code(s) 2947517 Issue Date 26-02-2019

Version 2.2

Product Name SPADNS2 (Arsenic-Free) Fluoride Reagent

Revision Date 10-Aug-2021

**Page** 9/15

(10 - 20%) CAS#: 7647-01-0	LDto		reported	BP lowering not characterized in autonomic section  Lungs, Thorax, or  Respiration  Respiratory depression  Gastrointestinal  Other changes	Effects of Chemical Substances)
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	Lungs, Thorax, or	RTECS (Registry of Toxic
(10 - 20%)	TCLo		reported	Respiration	Effects of Chemical
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

No data available.

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
(10 - 20%)	TCLo	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
Hydrochloric acid	7647-01-0	-	Group 3	-	Χ
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 (Occupational Safety and Health Administration of the US Department of	X - Present
Labor)	

# Germ cell mutagenicity

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

### Product Germ Cell Mutagenicity invitro Data

No data available.

EN / AGHS Page 9/15

Product Name SPADNS2 (Arsenic-Free) Fluoride Reagent

Revision Date 10-Aug-2021 Page 10 / 15

# Ingredient Germ Cell Mutagenicity invitro Data

No data available.

Chemical name	Test	Cell Strain	Reported	Exposure	Results	Key literature
			dose	time		references and
						sources for data
Hydrochloric acid	Cytogenetic	Hamster lung	30 mmol/L	None	Positive test result for	RTECS (Registry
(10 - 20%)	analysis	_		reported	mutagenicity	of Toxic Effects of
CAS#: 7647-01-0						Chemical
						Substances)
Zirconium	Mutation in	Salmonella	None	None	Negative test result	HSDB
oxychloride	microorganisms	typhimurium	reported	reported	for mutagenicity	(Hazardous
(<0.1%)				-		Substances Data
CAS#: 7699-43-6						Bank)

# 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**

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	0.450 mg/L	1 hours	Effects on Embryo or Fetus Fetotoxicity (except death e.g. stunted fetus) Specific Developmental Abnormalities Homeostasis	RTECS (Registry of Toxic Effects of Chemical Substances)

#### **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 component(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**

Page 10/15 EN / AGHS

Product Name SPADNS2 (Arsenic-Free) Fluoride Reagent Revision Date 10-Aug-2021

Page 11 / 15

No data available.

Persistence and degradability

**Product Biodegradability Data** 

No data available.

**Product Bioaccumulation Data** 

No data available.

Partition Coefficient (n-octanol/water) Not applicable

**Mobility** 

**Soil Organic Carbon-Water Partition Coefficient** Not applicable

Other adverse effects No information available

# 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused

Dispose of in accordance with local regulations. Dispose of waste in accordance with products

environmental legislation.

Contaminated packaging Do not reuse empty containers.

**US EPA Waste Number** D002

# 14. TRANSPORT INFORMATION

DOT

UN/ID no UN1789

Proper shipping name Hydrochloric acid solution

Transport hazard class(es) 8 **Packing Group** 

UN1789, Hydrochloric acid solution, 8, II Description

**Emergency Response Guide** 157

Number

**TDG** 

UN/ID no UN1789

Proper shipping name Hydrochloric acid solution

Transport hazard class(es) **Packing Group** 

Description UN1789, Hydrochloric acid solution, 8, II

IATA

**UN** number or ID number UN1789

Proper shipping name Hydrochloric acid solution

Transport hazard class(es) Packing group Ш **ERG Code** 8L A3, A803 Special precautions for user

EN / AGHS Page 11/15

Product Name SPADNS2 (Arsenic-Free) Fluoride Reagent

Revision Date 10-Aug-2021 Page 12 / 15

**IMDG** 

UN number or ID number UN1789

Proper shipping name Hydrochloric acid solution

Transport hazard class(es) 8
Packing Group | |

**EmS-No** F-A, S-B

**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** Does not comply

IECSC Complies
KECL - Existing substances
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**

# **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)**

EN / AGHS Page 12/15

**Product Name** SPADNS2 (Arsenic-Free) Fluoride Reagent **Revision Date** 10-Aug-2021

Page 13 / 15

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	-	-	X

# 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 (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 (10 - 20%) 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 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	X	X	X
Zirconium oxychloride 7699-43-6	-	X	-

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

Chemical name	FIFRA	FDA
Hydrochloric acid	180.0910	21 CFR 182.1057

EN / AGHS Page 13/15

Product Name SPADNS2 (Arsenic-Free) Fluoride Reagent

Revision Date 10-Aug-2021

Page 14 / 15

# 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
				- I

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

NIOSH IDLH Immediately Dangerous to Life or Health

ACGIH ACGIH (American Conference of Governmental Industrial Hygienists)

NDF no data

### Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

MAC Maximum Allowable Concentration Ceiling Ceiling Limit Value

X Listed Vacated These values have no official status. The only

binding levels of contaminants are those listed in the final OSHA PEL. These lists are for reference purposes only. Please note that some reference state regulations of these "liberated" exposure limits in their state

regulations.

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

M mutagen

Prepared By Hach Product Compliance Department

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2

### **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.

EN / AGHS Page 14/15

Product Name SPADNS2 (Arsenic-Free) Fluoride ReagentRevision Date 10-Aug-2021Page 15 / 15

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**End of Safety Data Sheet** 

EN / AGHS Page 15/15