

# SAFETY DATA SHEET

**Issue Date** 23-Sep-2021 **Revision Date** 26-Jan-2024 **Version** 2.3 **Page** 1 / 15

# 1. IDENTIFICATION

**Product identifier** 

**Product Name** Zinc Standard Solution, 100.0 ±1.0 mg/L as Zn

Other means of identification

Product Code(s) 237842

Safety data sheet number M00344

Recommended use of the chemical and restrictions on use

**Recommended Use** Standard solution.

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)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Chronic aquatic toxicity	Category 3

# Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

# Signal word

Danger



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#### **Hazard statements**

H315 - Causes skin irritation

H318 - Causes serious eye damage

H412 - Harmful to aquatic life with long lasting effects

#### Precautionary statements

P280 - Wear protective gloves, protective clothing, eye protection, and face protection

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P332 + P313 - If skin irritation occurs: Get medical attention

P362 - Take off contaminated clothing and wash before reuse

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

P273 - Avoid release to the environment

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

#### 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	<1%	-
Zinc chloride	7646-85-7	<0.1%	-

# 4. FIRST AID MEASURES

# **Description of first aid measures**

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

attendance.

**Inhalation** Remove to fresh air. Get medical attention immediately if symptoms occur.

Eye contact Get immediate medical advice/attention. 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.

**Skin contact** Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical

attention if irritation develops and persists.

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

to an unconscious person. Do NOT induce vomiting. Call a physician.

**Self-protection of the first aider** Avoid contact with skin, eyes or clothing.

Most important symptoms and effects, both acute and delayed

**Symptoms** Burning sensation.

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Indication of any immediate medical attention and special treatment needed

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

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.

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. Use personal protective equipment as required.

Ensure adequate ventilation.

**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.

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 Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder,

sawdust). Take up mechanically, placing in appropriate containers for disposal.

**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. Do not eat, drink or smoke when using this product. Take off

contaminated clothing and wash before reuse.

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### Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. **Storage Conditions** 

Keep out of the reach of children.

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>	
Zinc chloride	STEL: 2 mg/m <sup>3</sup> fume	TWA: 1 mg/m <sup>3</sup>	IDLH: 50 mg/m <sup>3</sup> fume
CAS#: 7646-85-7	TWA: 1 mg/m <sup>3</sup> fume	(vacated) TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m³ fume
		(vacated) STEL: 2 mg/m <sup>3</sup>	STEL: 2 mg/m <sup>3</sup> fume

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.

**Hand Protection** Wear suitable gloves. Impervious gloves. Barrier creams may help to protect the exposed

> areas of skin. Gloves must be inspected prior to use. The selected protective gloves have to satisfy the specifications of EU Directive 2016/425 and the standard EN 374 derived from it. Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN

374-1:2016.

Tight sealing safety goggles. Eye/face protection

Skin and body protection Wear suitable protective clothing. Long sleeved clothing. Avoid contact with eyes, skin and

clothing.

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do **General Hygiene Considerations** 

not eat, drink or smoke when using this product.

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

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 colorless

Odor Odorless Odor threshold No data available

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Color

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

Molecular weight No data available

**pH** 1.4 @ 20 °C

Melting point / freezing point  $\sim 0 \, ^{\circ}\text{C} \, / \, 32 \, ^{\circ}\text{F}$ 

Initial boiling point and boiling range  $\sim 100$  °C / 212 °F

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

**Vapor pressure** 17.477 mm Hg  $\,/\,$  2.33 kPa  $\,$  at  $\,$  20  $\,$  °C  $\,/\,$  68  $\,$  °F

Relative vapor density 0.62

Specific gravity - VALUE 1 0.990

Partition coefficient Not applicable

**Soil Organic Carbon-Water Partition** 

Coefficient

Not applicable

Autoignition temperature No data available

Decomposition temperature No data available

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

Kinematic viscosity  $\sim 1.01 \text{ cSt (mm}^2\text{/s)}$  at 20 °C / 68 °F

Solubility(ies)

Water solubility

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

#### Solubility in other solvents

Chemical Name	Solubility classification	<u>Solubility</u>	Solubility Temperature_
Acid	Soluble	> 1000 mg/L	25 °C / 77 °F
Glycerol	Soluble	> 1000 mg/L	25 °C / 77 °F
Ethyl alcohol	Soluble	> 1000 mg/L	25 °C / 77 °F
Acetone	Soluble	> 1000 mg/L	25 °C / 77 °F

#### Other information

**Metal Corrosivity** 

# **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	-
Zinc chloride	7646-85-7	No data available	-

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**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 available

Oxidizing properties No data available.

Bulk density

No data available

# 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**

None under normal processing.

# Conditions to avoid

None known based on information supplied.

# Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

# 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** May cause irritation of respiratory tract.

Eye contact Severely irritating to eyes. Causes serious eye damage. May cause burns. May cause

irreversible damage to eyes.

**Skin contact** Causes skin irritation.

**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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### **Symptoms**

Redness. Burning. May cause blindness. May cause redness and tearing of the eyes.

# **Acute toxicity**

Based on available data, the classification criteria are not met

#### **Mixture**

No data available.

### **Ingredient Acute Toxicity 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
Zinc chloride (<0.1%)	Rat LD <sub>50</sub>	350 mg/kg	None reported	None reported	GESTIS
CAS#: 7646-85-7					

# **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

Classification based on data available for ingredients. Irritating to skin.

#### **Mixture**

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
Hydrochloric acid (<1%) CAS#: 7647-01-0	Existing human experience	Human	None reported	None reported	Corrosive to skin	RTECS
Zinc chloride (<0.1%) CAS#: 7646-85-7	Open Irritation Test	Rabbit	1000 mg	5 days	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

Test data reported below.

- [	Chemical name	Test method	Species	Reported	Exposure	Results	Key literature	
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			dose	time		references and sources for data
Hydrochloric acid (<1%) 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

Test data reported below.

### **Oral Exposure Route**

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Hydrochloric acid (<1%) 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 Other changes	RTECS
Zinc chloride (<0.1%) CAS#: 7646-85-7	Child TDLo	169 mg/kg	None reported	Skin and Appendages Dermatitis	RTECS

# Inhalation (Dust/Mist) Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Zinc chloride (<0.1%)	Man TC∟₀	38.4 mg/L	4 hours	Lungs, Thorax, or Respiration	RTECS
CAS#: 7646-85-7				Other changes	

# Inhalation (Vapor) Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Hydrochloric acid	Human	0.05 mg/L	None reported	Lungs, Thorax, or	RTECS
(<1%)	TCL₀			Respiration	
CAS#: 7647-01-0				Cough	

#### STOT - repeated exposure

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

### **Mixture**

No data available.

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# Ingredient Specific Target Organ Toxicity Repeat Exposure 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
Zinc chloride (<0.1%) CAS#: 7646-85-7	Rat TD∟₀	248.4 mg/kg	90 days	Endocrine Changes in spleen and thymus weight Kidney, Ureter, or Bladder Liver	RTECS

### Inhalation (Vapor) Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Hydrochloric acid (<1%) CAS#: 7647-01-0	Rat TC∟₀	0.000685 mg/L	84 days	Behavioral Muscle contraction or spasticity 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
Γ	Hydrochloric acid	7647-01-0	-	Group 3	-	X
Γ	Zinc chloride	7646-85-7	-	-	-	-

# **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	Does not apply

# Germ cell mutagenicity

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

### Mixture invitro Data

No data available.

### Substance 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	Cytogenetic	Hamster lung	30 mmol/L	None reported	Positive test result for	RTECS

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ſ	(<1%)	analysis				mutagenicity	
	CAS#: 7647-01-0						
	Zinc chloride (<0.1%) CAS#: 7646-85-7	DNA damage	Human fibroblast	2 mmol/L	None reported	Positive test result for mutagenicity	RTECS

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** 

Test data reported below.

### **Oral Exposure Route**

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Zinc chloride (<0.1%) CAS#: 7646-85-7	Rat TD∟₀	155 mg/kg	33 days	Paternal Effects Other effects	RTECS

# 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
(<1%)	TCLo			Fetotoxicity (except death e.g.	
CAS#: 7647-01-0				stunted fetus) Specific	
				Developmental Abnormalities	
				Homeostasis	

**Aspiration hazard** 

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

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

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** 

Test data reported below.

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### Fish

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Zinc chloride (<0.1%) CAS#: 7646-85-7	96 hours	Oncorhynchus kisutch	LC50	0.027 mg/L	PEEN

#### Crustacea

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Zinc chloride (<0.1%) CAS#: 7646-85-7	48 Hours	Daphnia magna	EC50	0.05 mg/L	PEEN

# Algae

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Zinc chloride (<0.1%) CAS#: 7646-85-7	96 hours	Pseudokirchneriella subcapitata	EC50	0.05 mg/L	PEEN

### **Aquatic Chronic Toxicity**

No data available.

# Persistence and degradability

Mixture

No data available.

**Bioaccumulation** 

MATERIAL DOES NOT BIOACCUMULATE

**Mixture** 

No data available.

Partition coefficient Not applicable

**Mobility** 

Soil Organic Carbon-Water Partition Coefficient

Not applicable

Other adverse effects Environmental exposure

# 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

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#### Special instructions for disposal

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. Allow cold water to run for 5 minutes to completely flush the system. Check with local municipal and state authorities and waste contractors for pertinent local information regarding the proper disposal of chemicals.

### 14. TRANSPORT INFORMATION

**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 Complies **IECSC** Complies **KECL** Complies **PICCS** Complies **TCSI 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 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

l	Chemical name	SARA 313 - Threshold Values %

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Zinc chloride (CAS #: 7646-85-7)	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	-	-	X
Zinc chloride 7646-85-7	1000 lb	Х	-	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
Zinc chloride	1000 lb	-	RQ 1000 lb final RQ
7646-85-7			RQ 454 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	U.S DEA (Drug Enforcement Administration) - List II or Essential
	Chemicals	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 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

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Hydrochloric acid 7647-01-0	X	X	X
Zinc chloride 7646-85-7	X	X	X

#### U.S. EPA Label Information

Chemical name	FIFRA	FDA	
Hydrochloric acid	180.0910	21 CFR 182.1057	
Zinc chloride	-	21 CFR 182.70,21 CFR 182.8985	

# 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 -
I	HMIS	Health hazards - 3	Flammability - 0	Physical hazards - 0	Personal protection -
-			-	_	X
1					- I

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

**ACGIH** ACGIH (American Conference of Governmental Industrial Hygienists) ATSDR (Agency for Toxic Substances and Disease Registry) **ATSDR CCRIS** CCRIS (Chemical Carcinogenesis Research Information System) CDC (Center for Disease Control) CDC

CEPA (Canadian Environmental Protection Agency) **CEPA** 

CICAD CICAD (Concise International Chemical Assessment Documents)

ECHA (The European Chemicals Agency) **ECHA** EEA (European Environment Agency) EEA EPA (Environmental Protection Agency) **EPA** 

**ERMA** ERMA (New Zealands Environmental Risk Management Authority)

**ECOSARS** Estimation through ECOSARS v1.11 part of the Estimation Programs Interface (EPI) Suite<sup>TM</sup>

FDA (Food & Drug Administration) **FDA** 

GESTIS (Information System on Hazardous Substances of the German Social Accident **GESTIS** 

Insurance)

HSDB HSDB (Hazardous Substances Data Bank)

INERIS (The National Industrial Environment and Risks Institute) **INERIS IPCS INCHEM** IPCS INCHEM (International Programme on Chemical Safety) IUCLID (The International Uniform Chemical Information Database) **IUCLID** NITE Japan National Institute of Technology and Evaluation (NITE)

NIH (National Institutes of Health) NIH

NIOSH NIOSH (National Institute for Occupational Safety and Health) LOLI LOLI (List of Lists - An International Chemical Regulatory Database)

**NDF** no data

**NICNAS** Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

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**Product Name** Zinc Standard Solution, 100.0 ±1.0 mg/L as Zn **Revision Date** 26-Jan-2024

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NIOSH IDLH Immediately Dangerous to Life or Health

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

PEEN (Pan European Ecological Network)

RTECS RTECS (Registry of Toxic Effects of Chemical Substances)
SIDS SIDS (Screening Information Dataset) for High Volume Chemicals

SYKE The Finnish Environment Institute (SYKE)
USDA USDA (United States Department of Agriculture)
USDC USDC (United States Department of Commerce)

WHO (World Health Organization)

#### 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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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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