



## SAFETY DATA SHEET

# Hydrochloric Acid Solution (Conductivity Standard)

### 1. Identification

**Product identifier** Hydrochloric Acid Solution (Conductivity Standard)

**Other means of identification** None.

#### Product application

This SDS provides health and safety information for any hydrochloric acid component of the following vials or kits.

GE Analytical Instruments part number	Product name
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STD 30030, STD 77030	-
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**GE Analytical Instruments kit number**

STD 74401, 74402, 74501, 74502, 74512, 74513, 74514, 74515, 74516, 74612, 74613, 74614, 74615, 74616

**Recommended use** Reference Standard

**Recommended restrictions** None known.

#### Company/undertaking identification

GE Analytical Instruments Inc

6060 Spine Road

Boulder, CO 80301

T 303-444-2009

#### Emergency telephone

1-800-535-5053 INFOTRAC (North America)

Outside of N.A., call collect: 1-352-323-3500

GE (800) 877-1940

### 2. Hazard(s) identification

**Physical hazards** Not classified.

**Health hazards** Not classified.

**OSHA defined hazards** Not classified.

#### Label elements

**Hazard symbol** None.

**Signal word** None.

**Hazard statement** The mixture does not meet the criteria for classification.

#### Precautionary statement

**Prevention** Observe good industrial hygiene practices.

**Response** Wash hands after handling.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

**Hazard(s) not otherwise classified (HNOC)** None known.

**Supplemental information** None.

### 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Water		7732-18-5	> 99.99
Hydrochloric acid		7647-01-0	< 0.01

**Composition comments** Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this SDS for our assessment of the potential hazards of this formulation.

### 4. First-aid measures

<b>Inhalation</b>	No treatment required.
<b>Skin contact</b>	Wash immediately with plenty of soap and water.
<b>Eye contact</b>	Flush immediately with plenty of running water.
<b>Ingestion</b>	Rinse mouth thoroughly.
<b>Most important symptoms/effects, acute and delayed</b>	Not available.

### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	This product does not represent a fire hazard since it contains a high amount of water.
<b>Unsuitable extinguishing media</b>	None.
<b>Specific hazards arising from the chemical</b>	None known.
<b>Special protective equipment and precautions for firefighters</b>	No special protective equipment required.

### 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	No special protective equipment required.
<b>Methods and materials for containment and cleaning up</b>	Spills of the product are very slippery. Contain and recover by physical means. Remove small spills with plenty of water. Water contaminated with this product may be sent to a sanitary sewer treatment facility, or a permitted waste treatment facility, in accordance with any local agreements.
<b>Environmental precautions</b>	No special environmental precautions required.

### 7. Handling and storage

<b>Precautions for safe handling</b>	Handle in accordance with good industrial hygiene and safety procedures.
<b>Conditions for safe storage, including any incompatibilities</b>	Reasonable and safe chemical storage.

### 8. Exposure controls/personal protection

#### Occupational exposure limits

##### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Hydrochloric acid (CAS 7647-01-0)	Ceiling	7 mg/m <sup>3</sup>
		5 ppm

##### US. ACGIH Threshold Limit Values

Components	Type	Value
Hydrochloric acid (CAS 7647-01-0)	Ceiling	2 ppm

##### US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Hydrochloric acid (CAS 7647-01-0)	Ceiling	7 mg/m <sup>3</sup>

Components	Type	Value
		5 ppm
<b>Biological limit values</b>		No biological exposure limits noted for the ingredient(s).
<b>Appropriate engineering controls</b>		Provide adequate ventilation.
<b>Individual protection measures, such as personal protective equipment</b>		
<b>Eye/face protection</b>		Safety goggles.
<b>Skin protection</b>		
<b>Hand protection</b>		None required.
<b>Other</b>		No special protective equipment required.
<b>Respiratory protection</b>		Not required.
<b>Thermal hazards</b>		Not applicable.

## 9. Physical and chemical properties

### Appearance

<b>Color</b>	Colorless
<b>Physical state</b>	Liquid

**Odor** None

**Odor threshold** Not available.

**pH (concentrated product)** 6.5

**Melting point/freezing point** 32 °F (0 °C)

**Initial boiling point and boiling range** 212 °F (100 °C)

**Flash point** > 212 °F (> 100 °C)

**Evaporation rate** 1 (Water =1)

**Flammability (solid, gas)** Not available.

### Upper/lower flammability or explosive limits

**Flammability limit - lower (%)** Not available.

**Flammability limit - upper (%)** Not available.

**Explosive limit - lower (%)** Not available.

**Explosive limit - upper (%)** Not available.

**Vapor pressure** 18 mm Hg at 21°C

**Vapor density** 1

**Relative density** 1

### Solubility(ies)

**Solubility (water)** 100 %

**Partition coefficient (n-octanol/water)** Not available.

**Auto-ignition temperature** Not available.

**Decomposition temperature** Not available.

**Viscosity** Not available.

## 10. Stability and reactivity

**Reactivity** The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

**Possibility of hazardous reactions** Hazardous polymerization does not occur.

**Conditions to avoid** None known.

**Incompatible materials** None known.

**Hazardous decomposition products** None known.

## 11. Toxicological information

### Information on likely routes of exposure

Inhalation	None known.
Skin contact	None known.
Eye contact	None known.
Ingestion	None known.

Symptoms related to the physical, chemical and toxicological characteristics Not available.

### Information on toxicological effects

Acute toxicity Not classified.

Product	Species	Test Results
Hydrochloric Acid Solution (Conductivity Standard) (CAS Mixture)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 5000 mg/kg, (Calculated according to GHS additivity formula)
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg, (Calculated according to GHS additivity formula)

Skin corrosion/irritation Not classified.

Serious eye damage/eye irritation Not classified.

### Respiratory or skin sensitization

Respiratory sensitization Not classified.

Skin sensitization Not classified.

Germ cell mutagenicity Not classified.

Carcinogenicity Not classified.

### IARC Monographs. Overall Evaluation of Carcinogenicity

Hydrochloric acid (CAS 7647-01-0)

3 Not classifiable as to carcinogenicity to humans.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity Not classified.

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Not classified.

## 12. Ecological information

Ecotoxicity No ecotoxicity data noted for the ingredient(s).

Bioaccumulative potential Not available.

Mobility in soil Not available.

Other adverse effects Not available.

Persistence and degradability No data available

## 13. Disposal considerations

Disposal instructions Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging**

Since emptied containers may retain product residue, follow label warnings even after container is emptied.

**14. Transport information****DOT**

Not regulated as dangerous goods.

**IATA**

Not regulated as dangerous goods.

**IMDG**

Not regulated as dangerous goods.

**15. Regulatory information**

**US federal regulations** All components of this product are included on or are in compliance with the U.S. TSCA regulations.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Hydrochloric acid (CAS 7647-01-0) Listed.

**SARA 304 Emergency release notification**

Hydrochloric acid (CAS 7647-01-0) 5000 LBS

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**  
 Immediate Hazard - No  
 Delayed Hazard - No  
 Fire Hazard - No  
 Pressure Hazard - No  
 Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**

Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
Hydrochloric acid	7647-01-0	5000	500 lbs		

**SARA 311/312 Hazardous chemical** No

**SARA 313 (TRI reporting)**  
 Not regulated.

**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Hydrochloric acid (CAS 7647-01-0)

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Hydrochloric acid (CAS 7647-01-0)

**Safe Drinking Water Act (SDWA)** Not regulated.

**Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number**

Hydrochloric acid (CAS 7647-01-0) 6545

**Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))**

Hydrochloric acid (CAS 7647-01-0) 20 %WV

**DEA Exempt Chemical Mixtures Code Number**

Hydrochloric acid (CAS 7647-01-0) 6545

**Inventory status**

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)  
 A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### US state regulations

##### US - Massachusetts RTK - Substance List

Hydrochloric acid (CAS 7647-01-0)

##### US - Pennsylvania RTK - Hazardous Substances

Hydrochloric acid (CAS 7647-01-0)

##### US - Rhode Island RTK

Hydrochloric acid (CAS 7647-01-0)

##### US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

##### US. New Jersey Worker and Community Right-to-Know Act

Hydrochloric acid (CAS 7647-01-0)

##### US. Pennsylvania Worker and Community Right-to-Know Law

Hydrochloric acid (CAS 7647-01-0)

##### US. California Proposition 65

###### US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

No ingredient listed.

###### US - California Proposition 65 - CRT: Listed date/Developmental toxin

No ingredient listed.

###### US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

No ingredient listed.

###### US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

No ingredient listed.

## 16. Other information, including date of preparation or last revision

<b>Issue date</b>	Mar-18-2015
<b>Revision date</b>	Apr-16-2015
<b>Version #</b>	1.0

#### List of abbreviations

CAS: Chemical Abstract Service Registration Number  
 TWA: Time Weighted Average  
 STEL: Short Term Exposure Limit  
 LD50: Lethal Dose, 50%  
 LC50: Lethal Concentration, 50%  
 EC50: Effect Concentration, 50%  
 NOEL: No Observed Effect Level  
 COD: Chemical Oxygen Demand  
 BOD: Biochemical Oxygen Demand  
 TOC: Total Organic Carbon  
 TLV: Threshold Limit Value  
 IATA: International Air Transport Association  
 IMDG: International Maritime Dangerous Goods Code  
 NFPA: National Fire Protection Association  
 ACGIH: American Conference of Governmental Industrial Hygienists

**References:** No data available

**Disclaimer** The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**Prepared by** This SDS has been prepared by GE Water & Process Technologies Regulatory Department (1-215-355-3300).