



Univar  
3075 Highland Pkwy STE 200  
Downers Grove, IL 60515  
425-889-3400

## SAFETY DATA SHEET

### 1. Identification

**Product identifier:** HYDROCHLORIC ACID SOLUTION 2% - 37%

#### Other means of identification

**SDS number:** 000100000003

#### Recommended use and restriction on use

**Recommended use:** Not available.

**Restrictions on use:** Not known.

**Emergency telephone number:**For emergency assistance Involving chemicals

call CHEMTREC day or night at: 1-800-424-9300. CHEMTREC INTERNATIONAL Tel# 703-527-3887

### 2. Hazard(s) identification

#### Hazard classification

##### Health hazards

Acute toxicity (Oral)	Category 4
Acute toxicity (Dermal)	Category 4
Skin corrosion/irritation	Category 1A
Serious eye damage/eye irritation	Category 1

#### Label elements

##### Hazard symbol



Version: 1.1  
Revision date: 04/29/2015



---

<b>Signal word</b>	Danger
<b>Hazard statement</b>	Corrosive. Causes severe skin burns and eye damage. Harmful if swallowed or in contact with skin. May cause respiratory irritation.
<b>Precautionary statement</b>	
<b>Prevention</b>	Do not breathe dust or mists. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Do not eat, drink or smoke when using this product. Keep only in original container. Use only outdoors or in a well-ventilated area. Use personal protective equipment as required.
<b>Response</b>	IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF SWALLOWED: Call a POISON CENTER/doctor/ if you feel unwell. Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Specific treatment (see this label). Wash contaminated clothing before reuse.
<b>Storage</b>	Store in a closed container. Store locked up. Keep container tightly closed. Store in a well-ventilated place. Store in a dry place.
<b>Disposal</b>	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Version: 1.1  
Revision date: 04/29/2015



Other hazards which do not result in GHS classification None.

### 3. Composition/information on ingredients

#### Substances

Chemical identity	Common name and synonyms	CAS number	Content in percent (%)*
Water		7732-18-5	>=63 - <=98%
Hydrochloric acid		7647-01-0	>=2 - <=37%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 4. First-aid measures

**Ingestion:** Do NOT induce vomiting. Never give liquid to an unconscious person. Get medical attention immediately.

**Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. Perform artificial respiration if breathing has stopped. Get medical attention immediately.

**Skin contact:** Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately.

**Eye contact:** If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

**Most important symptoms/effects, acute and delayed**

**Symptoms:** No data available.

#### Indication of immediate medical attention and special treatment needed

**Treatment:** No data available.

### 5. Fire-fighting measures

**General fire hazards:** No data available.

#### Suitable (and unsuitable) extinguishing media

**Suitable extinguishing media:** Use fire-extinguishing media appropriate for surrounding materials.

Version: 1.1  
Revision date: 04/29/2015



---

**Unsuitable extinguishing media:** No data available.

**Specific hazards arising from the chemical:** No data available.

**Special protective equipment and precautions for firefighters**

**Special fire fighting procedures:** No data available.

**Special protective equipment for fire-fighters:** Containers close to fire should be removed or cooled with water.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment. Keep unauthorized personnel away.

**Methods and material for containment and cleaning up:** Absorb spillage with non-combustible, absorbent material. Dike for later disposal.

**7. Handling and storage**

**Precautions for safe handling:** Use personal protective equipment as required. Container must be kept tightly closed. Use only with adequate ventilation. Avoid breathing mists or vapors. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling. Do not taste or swallow.

**Conditions for safe storage, including any incompatibilities:** No data available.

Version: 1.1  
 Revision date: 04/29/2015



**8. Exposure controls/personal protection**

**Control parameters**

**Occupational exposure limits**

Chemical identity	Type	Exposure Limit values	Source
Hydrochloric acid	Ceiling	2 ppm	US. ACGIH Threshold Limit Values (03 2013)
	Ceil_Tim e	5 ppm 7 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	Ceiling	5 ppm 7 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	Ceiling	5 ppm 7 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	Ceiling	5 ppm 7 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	AN ESL	8.4 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	ST ESL	190 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	AN ESL	5.7 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	ST ESL	130 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	Ceiling	5 ppm 7 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)

**Appropriate engineering controls** No data available.

Version: 1.1  
Revision date: 04/29/2015



**Individual protection measures, such as personal protective equipment**

**General information:** Use personal protective equipment as required. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned. Practice good housekeeping. Provide eyewash station and safety shower.

**Eye/face protection:** No data available.

**Skin protection**

**Hand protection:** No data available.

**Other:** No data available.

**Respiratory protection:** No data available.

**Hygiene measures:** No data available.

**9. Physical and chemical properties**

**Physical state:** Liquid

**Form:** No data available.

**Color:** No data available.

**Odor:** No data available.

**Odor threshold:** No data available.

**pH:** 2

**Melting point/freezing point:** -34 - -15 °C

**Initial boiling point and boiling range:** 60 - 105 °C

**Flash Point:** No data available.

**Evaporation rate:** No data available.

**Flammability (solid, gas):** No data available.

**Upper/lower limit on flammability or explosive limits**

**Flammability limit - upper (%):** No data available.

**Flammability limit - lower (%):** No data available.

**Explosive limit - upper (%):** No data available.

**Explosive limit - lower (%):** No data available.

**Vapor pressure:** No data available.

**Vapor density:** No data available.

**Relative density:** No data available.

Version: 1.1  
Revision date: 04/29/2015



**Solubility(ies)**

**Solubility in water:** No data available.  
**Solubility (other):** No data available.  
**Partition coefficient (n-octanol/water):** No data available.  
**Auto-ignition temperature:** No data available.  
**Decomposition temperature:** No data available.  
**Viscosity:** No data available.

**10. Stability and reactivity**

**Reactivity:** No data available.  
**Chemical stability:** No data available.  
**Possibility of hazardous reactions:** No data available.  
**Conditions to avoid:** No data available.  
**Incompatible materials:** No data available.  
**Hazardous decomposition products:** No data available.

**11. Toxicological information**

**Symptoms related to the physical, chemical and toxicological characteristics**

**Ingestion:** No data available.  
**Inhalation:** No data available.  
**Skin contact:** No data available.  
**Eye contact:** No data available.

**Information on toxicological effects**

**Acute toxicity (list all possible routes of exposure)**

**Oral**

**Product:** ATEmix (): 900 mg/kg

**Dermal**

**Product:** ATEmix (): 1,449 mg/kg

**Inhalation**

**Product:** No data available.

**Specified substance(s):**

Hydrochloric acid LC 50 (Rat, 1 h): 3,124 mg/l

**Repeated dose toxicity**

**Product:** No data available.

Version: 1.1  
Revision date: 04/29/2015



**Skin corrosion/irritation**

**Product:** No data available.

**Serious eye damage/eye irritation**

**Product:** No data available.

**Respiratory or skin sensitization**

**Product:** No data available.

**Carcinogenicity**

**Product:** No data available.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

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

No carcinogenic components identified

**Germ cell mutagenicity**

**In vitro**

**Product:** No data available.

**In vivo**

**Product:** No data available.

**Reproductive toxicity**

**Product:** No data available.

**Specific target organ toxicity - single exposure**

**Product:** No data available.

**Specific target organ toxicity - repeated exposure**

**Product:** No data available.

**Aspiration hazard**

**Product:** No data available.

**Other effects:** No data available.

**12. Ecological information**

**Ecotoxicity:**

**Acute hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

**Specified substance(s):**

Hydrochloric acid LC 50 (Western mosquitofish (*Gambusia affinis*), 24 h): 282 mg/l Mortality  
LC 50 (Western mosquitofish (*Gambusia affinis*), 48 h): 282 mg/l Mortality  
LC 50 (Western mosquitofish (*Gambusia affinis*), 96 h): 282 mg/l Mortality



Version: 1.1  
Revision date: 04/29/2015



**Aquatic invertebrates**

**Product:** No data available.

**Specified substance(s):**

Hydrochloric acid LC 50 (Green or European shore crab (*Carcinus maenas*), 48 h): 240 mg/l  
Mortality LC 50 (Common shrimp, sand shrimp (*Crangon crangon*), 48 h):  
260 mg/l Mortality

**Chronic hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

**Aquatic invertebrates**

**Product:** No data available.

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Persistence and degradability**

**Biodegradation**

**Product:** No data available.

**BOD/COD ratio**

**Product:** No data available.

**Bioaccumulative potential**

**Bioconcentration factor (BCF)**

**Product:** No data available.

**Partition coefficient n-octanol / water (log Kow)**

**Product:** No data available.

**Mobility in soil:** No data available.

**Known or predicted distribution to environmental compartments**

Water No data available.

Hydrogen chloride No data available.

**Known or predicted distribution to environmental compartments**

Water No data available.

**13. Disposal considerations**

**Disposal instructions:** No data available.

**Contaminated packaging:** No data available.

Version: 1.1  
Revision date: 04/29/2015



#### 14. Transport information

##### DOT

UN number:	UN 1789
UN proper shipping name:	Hydrochloric acid solution
Transport hazard class(es)	
Class:	8
Label(s):	8
Packing group:	II
Marine Pollutant:	Not regulated.
Special precautions for user:	—

#### 15. Regulatory information

##### **US federal regulations US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

None present or none present in regulated quantities.

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

Hydrochloric acid                      Reportable quantity: 5000 lbs.

##### **Superfund amendments and reauthorization act of 1986 (SARA)**

##### **Hazard categories**

Not listed.

Version: 1.1  
Revision date: 04/29/2015



**SARA 302 Extremely hazardous substance**

<u>Chemical identity</u>	<u>RQ</u>	<u>Threshold Planning Quantity</u>
Hydrochloric acid	5000 lbs.	500 lbs.

**SARA 304 Emergency release notification**

<u>Chemical identity</u>	<u>RQ</u>
Hydrochloric acid	5000 lbs.

**SARA 311/312 Hazardous chemical**

<u>Chemical identity</u>	<u>Threshold Planning Quantity</u>
Hydrochloric acid	500lbs

**SARA 313 (TRI reporting)**

<u>Chemical identity</u>	<u>Reporting threshold for other users</u>	<u>Reporting threshold for manufacturing and processing</u>
Hydrochloric acid	10000 lbs	25000 lbs.

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**

Hydrochloric acid Reportable quantity: 5000 lbs.

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

Hydrochloric acid Threshold quantity: 15000 lbs

Hydrochloric acid Threshold quantity: 5000 lbs

**US state regulations**

**US. California Proposition 65**

No ingredient regulated by CA Prop 65 present.

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

Hydrochloric acid Listed

**US. Massachusetts RTK - Substance List**

Hydrochloric acid Listed

**US. Pennsylvania RTK - Hazardous Substances**

Hydrochloric acid Listed

**US. Rhode Island RTK**

Hydrochloric acid Listed

Version: 1.1  
 Revision date: 04/29/2015



<b>Inventory Status:</b> Australia AICS:	Not in compliance with the inventory.
Canada DSL Inventory List:	Not in compliance with the inventory.
EU EINECS List:	On or in compliance with the inventory
EU ELINCS List:	Not in compliance with the inventory.
Japan (ENCS) List:	Not in compliance with the inventory.
EU No Longer Polymers List:	Not in compliance with the inventory.
China Inv. Existing Chemical Substances:	Not in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI):	Not in compliance with the inventory.
Canada NDSL Inventory:	Not in compliance with the inventory.
Philippines PICCS:	Not in compliance with the inventory.
US TSCA Inventory:	On or in compliance with the inventory
New Zealand Inventory of Chemicals:	Not in compliance with the inventory.
Japan ISHL Listing:	Not in compliance with the inventory.
Japan Pharmacopoeia Listing:	Not in compliance with the inventory.

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

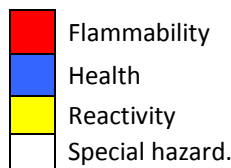
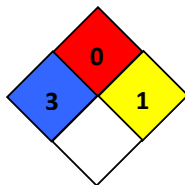
**HMIS Hazard ID**

Health	3
Flammability	0
Physical hazards	1
<b>PERSONAL PROTECTION</b>	<b>B</b>

B - Safety Glasses & Gloves

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; \*Chronic health effect

**NFPA Hazard ID**



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

**Issue date:** 04/29/2015  
**Revision date:** No data available.  
**Version #:** 1.1  
**Further information:** No data available.

Version: 1.1  
Revision date: 04/29/2015



## Univar USA Inc Material Safety Data Sheet

---

For Additional Information contact MSDS Coordinator during business hours, Pacific time: (425) 889-3400

### **Notice**

Univar USA Inc. ("Univar") expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein, and shall under no circumstances be liable for incidental or consequential damages.

Do not use ingredient information and/or ingredient percentages in this MSDS as a product specification. For product specification information refer to a product specification sheet and/or a certificate of analysis. These can be obtained from your local Univar sales office.

All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, Univar makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Univar's control and therefore users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance upon, information contained herein.

This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process