

# Muriatic Acid Cleaner

## Safety Data Sheet

### SECTION 1: Product and company identification

Product name : Muriatic Acid Cleaner  
Use of the substance/mixture : Acid  
Product code : 0140-mur  
Company : Total Solutions  
P.O. Box 240014  
Milwaukee, WI 53224 - USA  
T 800-743-6417  
[athea.com](http://athea.com)  
Contact: Technical Department  
Emergency number : Chemtrec: 1-800-424-9300

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

GHS US classification  
Met. Corr. 1 H290  
Skin Corr. 1B H314  
STOT SE 3 H335

#### 2.2. Label elements

GHS US labeling  
Hazard pictograms (GHS US) :



Signal word (GHS US) : GHS05      GHS07  
: Danger  
Hazard statements (GHS US) : May be corrosive to metals  
Causes severe skin burns and eye damage  
May cause respiratory irritation  
Precautionary statements (GHS US) : Keep only in original container.  
Do not breathe mist, spray.  
Avoid breathing mist, spray.  
Wash thoroughly after handling  
Use only outdoors or in a well-ventilated area.  
Wear eye protection, protective clothing, protective gloves.  
If swallowed: rinse mouth. Do NOT induce vomiting.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
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.  
Immediately call a doctor, a POISON CENTER.  
Call a doctor, a POISON CENTER if you feel unwell.  
Specific treatment (see First aid measures on this label).  
Wash contaminated clothing before reuse.  
Absorb spillage to prevent material-damage.  
Store in a well-ventilated place. Keep container tightly closed.  
Store locked up.  
Store in corrosive resistant container with a resistant inner liner.  
Dispose of contents/container to comply with local/regional/national/international regulations..

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

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Name	Product identifier	%	GHS US classification
hydrogen chloride ... %	(CAS-No.) 7647-01-0	10 - 30	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1B, H314 STOT SE 3, H335
Linear Alcohol Ethoxylate	(CAS-No.) 34398-01-1	1.0 - 5.0	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318

All hazardous chemicals, as determined by 29 CFR 1910.1200 have been listed. A specific chemical identity and/or percentage of composition has been withheld as a trade secret. Any concentration shown as a range is to protect confidentiality or is due to batch variation.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures general : If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
- First-aid measures after skin contact : Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. Immediately call a poison center or doctor/physician.
- First-aid measures after ingestion : Fatal if swallowed. Immediately call a poison center or doctor/physician. Rinse mouth. Do NOT induce vomiting. Drink plenty of water.

### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/effects : Causes severe skin burns and eye damage. May cause respiratory irritation.
- Symptoms/effects after inhalation : May cause respiratory irritation.
- Symptoms/effects after skin contact : Caustic burns/corrosion of the skin.
- Symptoms/effects after eye contact : Causes serious eye damage. Corrosion of the eye tissue. Permanent eye damage.
- Symptoms/effects after ingestion : Burns to the gastric/intestinal mucosa.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : All extinguishing media allowed.

### 5.2. Special hazards arising from the substance or mixture

- Reactivity : Thermal decomposition generates : Carbon monoxide. Carbon dioxide. HCl. Chlorine.

### 5.3. Advice for firefighters

- Firefighting instructions : Exercise caution when fighting any chemical fire. Use water moderately and if possible collect or contain it. Use water spray or fog for cooling exposed containers.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Isolate from fire, if possible, without unnecessary risk.

#### 6.1.1. For non-emergency personnel

- Protective equipment : Gloves. Protective goggles. Face shield. Protective clothing.
- Emergency procedures : Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing. Ventilate spillage area.

#### 6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Stop leak if safe to do so. Stop release. Ventilate area.

### 6.2. Environmental precautions

Avoid release to the environment. Prevent soil and water pollution.

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### 6.3. Methods and material for containment and cleaning up

- For containment : Contain released product, pump into suitable containers.
- Methods for cleaning up : This material and its container must be disposed of in a safe way, and as per local legislation.

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Additional hazards when processed : Do not spray to create mists. Do not heat to create vapors.
- Precautions for safe handling : Comply with the legal requirements. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing.
- Hygiene measures : Wash thoroughly after handling. Wash contaminated clothing before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Comply with applicable regulations.
- Storage conditions : Keep container closed when not in use. Store in original container.
- Incompatible products : metals and metal salts, alkaline.
- Incompatible materials : chlorine-based bleaching agents, ammonia.
- Storage area : Keep only in the original container. Store in a dry area. Store in a cool area.
- Special rules on packaging : meet the legal requirements.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### hydrogen chloride ... % (7647-01-0)

ACGIH	ACGIH OEL Ceiling [ppm]	2 ppm (Hydrogen chloride; USA; Momentary value; TLV - Adopted Value)
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#### Linear Alcohol Ethoxylate (34398-01-1)

Not applicable

### 8.2. Exposure controls

- Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
- Personal protective equipment : Gloves. Safety glasses. Protective clothing. Use appropriate personal protective equipment when risk assessment indicates this is necessary.



## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Appearance : clear, Green, Liquid
- Odor : Acidic.
- Odor threshold : No data available
- pH : 1
- Melting point : No data available
- Freezing point : No data available
- Boiling point : No data available
- Flash point : > 200 °F Closed cup
- Relative evaporation rate (butyl acetate=1) : No data available
- Flammability (solid, gas) : No data available
- Explosion limits : No data available
- Explosive properties : No data available
- Oxidizing properties : No data available
- Vapor pressure : No data available
- Relative density : No data available
- Relative vapor density at 20 °C : No data available

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Density	: 1.1 g/ml
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Partition coefficient n-octanol/water (Log Kow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
VOC content	: < 0.5 %

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Thermal decomposition generates : Carbon monoxide. Carbon dioxide. HCl. Chlorine.

#### 10.2. Chemical stability

No additional information available

#### 10.3. Possibility of hazardous reactions

Refer to section 10.1 on Reactivity.

#### 10.4. Conditions to avoid

No additional information available

#### 10.5. Incompatible materials

May be corrosive to metals. metals.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

##### hydrogen chloride ... % (7647-01-0)

LD50 oral rat	700 mg/kg
LC50 Inhalation - Rat	1.68 mg/l
ATE CLP (oral)	700 mg/kg body weight
ATE CLP (vapors)	1.68 mg/l/4h
ATE CLP (dust, mist)	1.68 mg/l/4h

##### Linear Alcohol Ethoxylate (34398-01-1)

LD50 oral rat	> 1400 mg/kg
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Skin corrosion/irritation : Causes severe skin burns.  
pH: 1  
Serious eye damage/irritation : Not classified.  
pH: 1  
Respiratory or skin sensitization : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified

##### hydrogen chloride ... % (7647-01-0)

IARC group	3 - Not classifiable
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Reproductive toxicity : Not classified  
STOT-single exposure : May cause respiratory irritation.  
STOT-repeated exposure : Not classified  
Aspiration hazard : Not classified  
Symptoms/effects after inhalation : May cause respiratory irritation.  
Symptoms/effects after skin contact : Caustic burns/corrosion of the skin.

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Symptoms/effects after eye contact : Causes serious eye damage. Corrosion of the eye tissue. Permanent eye damage.  
Symptoms/effects after ingestion : Burns to the gastric/intestinal mucosa.  
Likely routes of exposure : Skin and eye contact

## SECTION 12: Ecological information

### 12.1. Toxicity

Linear Alcohol Ethoxylate (34398-01-1)	
LC50 - Fish [1]	< 10 mg/l
EC50 - Crustacea [1]	< 10 mg/l
ErC50 algae	< 10 mg/l

### 12.2. Persistence and degradability

hydrogen chloride ... % (7647-01-0)	
Persistence and degradability	No (test)data on mobility of the components available.

### 12.3. Bioaccumulative potential

hydrogen chloride ... % (7647-01-0)	
Bioaccumulative potential	No test data of component(s) available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

## SECTION 14: Transport information

### Department of Transportation (DOT)

Transport document description (DOT) : UN1789 Hydrochloric acid (solution), 8, II  
UN-No.(DOT) : UN1789  
Proper Shipping Name (DOT) : Hydrochloric acid  
Class (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136  
Hazard labels (DOT) : 8 - Corrosive



Packing group (DOT) : II - Medium Danger  
DOT Packaging Non Bulk (49 CFR 173.xxx) : 202  
DOT Packaging Bulk (49 CFR 173.xxx) : 242  
DOT Special Provisions (49 CFR 172.102) : A3,A6,B3,B15,IB2,N41,T8,TP2,TP12  
DOT Packaging Exceptions (49 CFR 173.xxx) : 154  
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 1 L  
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 30 L  
DOT Vessel Stowage Location : C

### Additional information

Other information : No supplementary information available.

### ADR

No additional information available

### Transport by sea

No additional information available

### Air transport

No additional information available

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### SECTION 15: Regulatory information

All components of this product are listed as Active, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

hydrogen chloride ... %	7647-01-0	10 - 30%
ethylene oxide	75-21-8	<0.001%
hydrogen chloride ... %	(7647-01-0)	CERCLA RQ5000 lb
ethylene oxide	(75-21-8)	CERCLA RQ10 lb
hydrogen chloride ... %	(7647-01-0)	SARA Section 302 Threshold Planning Quantity (TPQ)500 lb
ethylene oxide	(75-21-8)	SARA Section 302 Threshold Planning Quantity (TPQ)1000 lb
Linear Alcohol Ethoxylate	(34398-01-1)	SARA Section 311/312 Hazard Classes Immediate (acute) health hazard

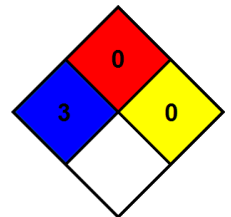
#### WARNING

This product can expose you to ethylene oxide, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### SECTION 16: Other information

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

NFPA health hazard : 3 - Materials that, under emergency conditions, can cause serious or permanent injury.  
NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.  
NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Prepared by: Technical Department

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Our company assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of this material.