

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Code:** MORGAN-064-BULK  
**Product Name:** Descaler-X  
**Company Name:** Morgan-Gallacher, Inc.  
 8707 Millergrove Drive  
 Santa Fe Springs, CA 90670  
**Emergency Contact:** CHEMTREC

**Phone Number:**  
 +1 (562)695-1232  
 +1 (800)424-9300

**2. HAZARDS IDENTIFICATION**

**Skin Corrosion/Irritation, Category 1B**  
**Acute Toxicity: Oral, Category 4**  
**Serious Eye Damage/Eye Irritation, Category 1**  
**Corrosive To Metals, Category 1**



**GHS Signal Word:** **Danger**

**GHS Hazard Phrases:** May be corrosive to metals.  
 Harmful if swallowed.  
 Causes severe skin burns and eye damage.

**GHS Precaution Phrases:** Keep out of reach of children.  
 Read label before use.  
 Do not breathe dust/fume/gas/mist/vapors/spray.  
 Do not get in eyes, on skin, or on clothing.  
 Wash hands thoroughly after handling.  
 Wear protective gloves/protective clothing/eye protection/face protection.

**GHS Response Phrases:** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 Get immediate medical advice/attention.  
 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with plenty of water for 15 minutes.  
 If skin irritation occurs, get medical advice/attention.  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 If experiencing respiratory symptoms: Get immediate medical advice/attention.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for 15 minutes.  
 Get immediate medical advice/attention.

**GHS Storage and Disposal Phrases:** Store locked up.  
 Dispose of contents/container in accordance to local, state and federal regulations.

**OSHA Regulatory Status:** This material is classified as hazardous under OSHA regulations.

**Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation.

**Skin Contact:** Causes skin burns. May be harmful if absorbed through the skin.

**Eye Contact:** Causes severe eye burns. May cause chemical conjunctivitis.

**Ingestion:** May cause irritation of the digestive tract.  
 Harmful if swallowed.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
7647-01-0	Hydrochloric acid	<25.0 %

### 4. FIRST AID MEASURES

**Emergency and First Aid**

**Procedures:**

<b>In Case of Inhalation:</b>	Remove from exposure and move to fresh air immediately. Get immediate medical advice/attention.
<b>In Case of Skin Contact:</b>	Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Get medical aid immediately.
<b>In Case of Eye Contact:</b>	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
<b>In Case of Ingestion:</b>	Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Wash mouth out with water. If victim is conscious and alert, give 2-4 cupfuls of water. Get medical attention immediately.
<b>Note to Physician:</b>	Treat symptomatically and supportively. Show this safety data sheet to the doctor in attendance.

### 5. FIRE FIGHTING MEASURES

<b>Flash Pt:</b>	NA	Method Used: Estimate
<b>Explosive Limits:</b>	LEL: No data.	UEL: No data.
<b>Autoignition Pt:</b>	NA	
<b>Suitable Extinguishing Media:</b>	Use water spray, dry chemical, carbon dioxide, or chemical foam.	
<b>Fire Fighting Instructions:</b>	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.	
<b>Flammable Properties and Hazards:</b>	No data available.	
<b>Hazardous Combustion Products:</b>	Hydrogen chloride.	

### 6. ACCIDENTAL RELEASE MEASURES

<b>Protective Precautions, Protective Equipment and Emergency Procedures:</b>	Use proper personal protective equipment as indicated in Section 8.
<b>Environmental Precautions:</b>	Do not let product enter drains, sewers, watersheds or water systems.
<b>Steps To Be Taken In Case Material Is Released Or Spilled:</b>	Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Provide ventilation.

### 7. HANDLING AND STORAGE

<b>Precautions To Be Taken in Handling:</b>	Avoid breathing dust, vapor, mist, or gas. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Use with adequate ventilation. Wash clothing before reuse.
<b>Precautions To Be Taken in Storing:</b>	Store in a cool, dry place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
7647-01-0	Hydrochloric acid	CEIL: 5 ppm	CEIL: 2 ppm)	No data.

<b>Respiratory Equipment (Specify Type):</b>	Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
<b>Eye Protection:</b>	Wear chemical splash goggles.
<b>Protective Gloves:</b>	Wear appropriate protective gloves to prevent skin exposure. Rubber or neoprene gloves.
<b>Other Protective Clothing:</b>	Wear appropriate protective clothing to prevent skin exposure.
<b>Engineering Controls (Ventilation etc.):</b>	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.
<b>Work/Hygienic/Maintenance Practices:</b>	Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical States:</b>	[ ] Gas [ X ] Liquid [ ] Solid	
<b>Appearance and Odor:</b>	Clear. Transparent. Liquid.	
<b>pH:</b>	< 2.0	
<b>Melting Point:</b>	NA	
<b>Boiling Point:</b>	NA	
<b>Flash Pt:</b>	NA Method Used: Estimate	
<b>Evaporation Rate:</b>	No data.	
<b>Flammability (solid, gas):</b>	No data available.	
<b>Explosive Limits:</b>	LEL: No data.	UEL: No data.
<b>Vapor Pressure (vs. Air or mm Hg):</b>	No data.	
<b>Vapor Density (vs. Air = 1):</b>	No data.	
<b>Specific Gravity (Water = 1):</b>	1.07 - 1.09	
<b>Solubility in Water:</b>	No data.	
<b>Octanol/Water Partition Coefficient:</b>	No data.	
<b>Autoignition Pt:</b>	NA	
<b>Decomposition Temperature:</b>	No data.	
<b>Viscosity:</b>	No data.	

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Unstable [ ] Stable [ X ]
<b>Conditions To Avoid - Instability:</b>	Incompatible materials.
<b>Incompatibility - Materials To Avoid:</b>	No data available.
<b>Hazardous Decomposition or Byproducts:</b>	Hydrogen chloride gas.
<b>Possibility of Hazardous Reactions:</b>	Will occur [ ] Will not occur [ X ]
<b>Conditions To Avoid - Hazardous Reactions:</b>	No data available.

## 11. TOXICOLOGICAL INFORMATION

<b>Toxicological Information:</b>	<p>Epidemiology: No information found.          Teratogenicity: No information available.          Reproductive Effects: No information found.          Mutagenicity: No information found.          Neurotoxicity: No information found.</p> <p>CAS# 7647-01-0: Hydrochloric acid: Acute toxicity, LC50, Inhalation, Rat, 3124. PPM, 1 H.          Acute toxicity, LC50, Inhalation, Mouse, 1108. PPM, 1 H.          Acute toxicity, LD50, Oral, Species: Rabbit, 900.0 MG/KG.</p>				
<b>Irritation or Corrosion:</b>	<p>Other Studies: CAS# 7647-01-0:          Acute toxicity, LD50, Oral, Rabbit, 900 mg/kg          Acute toxicity, LC50, Inhalation, Rat, 3124 ppm, 1 H.</p>				
<b>Carcinogenicity/Other Information:</b>	<p>CAS# 7647-01-0: Not listed by ACGIH, IARC, NTP, or CA Prop 65.</p>				
<b>Carcinogenicity:</b>	NTP? No	IARC Monographs? No	OSHA Regulated? No		
<b>CAS #</b>	<b>Hazardous Components (Chemical Name)</b>	<b>NTP</b>	<b>IARC</b>	<b>ACGIH</b>	<b>OSHA</b>
7647-01-0	Hydrochloric acid	n.a.	3	A4	n.a.

## 12. ECOLOGICAL INFORMATION

<b>General Ecological Information:</b>	<p>Environmental: No information available.          Physical: No information available.</p>				
<b>Results of PBT and vPvB assessment:</b>	<p>Other Studies: CAS# 7647-01-0:          LC50, Western Mosquitofish (Gambusia affinis), adult(s), 282000 ug/L, 24H, Mortality          LC50, Common Shrimp, Sand Shrimp (Crangon crangon), adult(s), 260000 ug/L, 48H, Mortality</p>				
<b>Persistence and Degradability:</b>	No data available.				
<b>Bioaccumulative Potential:</b>	No data available.				
<b>Mobility in Soil:</b>	No data available.				

## 13. DISPOSAL CONSIDERATIONS

<b>Waste Disposal Method:</b>	<p>Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.          US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.          Observe all federal, state, and local environmental regulations.          Contact a licensed professional waste disposal service to dispose of this material.</p>				
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## 14. TRANSPORT INFORMATION

**LAND TRANSPORT (US DOT):**

**DOT Proper Shipping Name:** Hydrochloric acid, solution.  
**DOT Hazard Class:** 8 CORROSIVE  
**UN/NA Number:** UN1789 **Packing Group:** II



**15. REGULATORY INFORMATION**

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

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
7647-01-0	Hydrochloric acid	Yes 500 LB	Yes 5000 LB	Yes

**This material meets the EPA**  Yes  No Acute (immediate) Health Hazard  
**'Hazard Categories' defined**  Yes  No Chronic (delayed) Health Hazard  
**for SARA Title III Sections**  Yes  No Fire Hazard  
**311/312 as indicated:**  Yes  No Sudden Release of Pressure Hazard  
 Yes  No Reactive Hazard

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
7647-01-0	Hydrochloric acid	CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NJ EHS: Yes - 1012; NY Part 597: Yes; PA HSL: Yes - E

**16. OTHER INFORMATION**

**Revision Date:** 03/03/2018  
**Additional Information About This Product:** No data available.

**Company Policy or Disclaimer:** While Morgan-Gallacher believes the statements set forth herein are accurate as of the date hereof, Morgan-Gallacher makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data is offered solely for your consideration, investigation, and verification.