

# **Twin Pro Industrial**

## **Safety Data Sheet**

### **1.) PRODUCT AND COMPANY IDENTIFICATION:**

**Product Name:** TWP304 Scale Rid  
**Other Means of Identification:** Scale Rid  
**Recommended Use:** De-Scaling  
**Initial Supplier Identifier:** Twin Industrial Holdings Ltd.  
3203 Giffen Road North  
Lethbridge, AB  
T1H 0E8  
403-329-4878  
**Emergency Phone** CANUTEC at 1-613-996-6666

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### **2.) HAZARDS IDENTIFICATION**

#### **GHS-Classification**

**Skin Corrosion/Irritation** Category 1B  
**Serious Eye Damage/Irritation** Category 1  
**STOT-Single Exposure** Category 3

#### **Physical Hazards**

**Corrosive to Metals** Category 1

#### **Danger**

#### **Hazard Statements**

H290 - May be corrosive to metals

H314 - Causes severe skin burns and eye damage

H335 - May cause respiratory irritation

#### **Pictograms**



#### **Precautionary Statements**

P234 - Keep only in original container

P260 - Do not breathe mist, vapors or spray

P264 - Wash hands thoroughly after handling

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

P271 - Use only outdoors or in a well-ventilated area

P301 + P330 + P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin.

P363 – Wash contaminated clothing before reuse.

P304 + P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 – P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.

P310 - Immediately call a POISON CENTER or doctor/physician

P390 - Absorb spillage to prevent material damage

P405 – Store locked up

P403 + P233 – Store in a well-ventilated place. Keep container tightly closed.

P406 – Store in a corrosion resistant container with a resistant inner liner

P501 – Dispose of contents/container in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

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### **3.) COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Chemical Name</b>	<b>CAS Number</b>	<b>Weight %</b>	<b>Unique Identifiers</b>
Hydrochloric Acid (35%)	7647-01-0	10 – 30%	Not Available

Balance of ingredients are considered non hazardous and constitute a proprietary blend.

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### **4.) FIRST AID MEASURES**

<b>Inhalation:</b>	Remove victim to fresh air. Only give artificial respiration if breathing has stopped. If breathing is difficult, give oxygen. Seek medical attention.
<b>Skin Contact/ Absorption:</b>	Remove contaminated clothing. Wash affected area with lukewarm water for at least 30 minutes. If irritation persists, repeat flushing. Seek immediate medical attention. Double bag, seal, label and leave contaminated clothing, shoes and leather goods at the scene for safe disposal.
<b>Eye Contact:</b>	Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for at least 30 minutes, while holding the eyelid(s) open. If a contact lens is present, remove only if easy to do so. Neutral saline solution may be used as soon as it is available. Seek immediate medical attention.
<b>Ingestion:</b>	NEVER give anything by mouth if victim is rapidly losing consciousness, is unconscious or convulsing. Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. If vomiting occurs naturally, have victim rinse mouth with water again. Seek immediate medical attention.
<b>Additional Information:</b>	Provide general supportive measures (comfort, warmth, rest). Take proper precautions to ensure your own safety before assisting others.

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### **5.) FIRE – FIGHTING MEASURES**

<b>Suitable Extinguishing Media:</b>	Extinguish fire using agent suitable for surrounding fire. Cool all affected containers with flooding quantities of water. Apply water from as far a distance as possible. Use water spray to knock-down vapors
<b>Unsuitable Extinguishing Media</b>	Not Available
<b>Specific Hazards Arising From The chemical</b>	When heated or in a fire, toxic and corrosive hydrogen chloride gas may be released.
<b>Special Protective Equipment And Precautions for Fire-Fighters</b>	Wear NIOSH-approved self contained breathing apparatus and protective gear.
<b>Further Information:</b>	Not Available

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### **6.) ACCIDENTAL RELEASE MEASURES**

<b>Personal Precautions / Protective Equipment / Emergency Procedures</b>	Wear appropriate protective equipment. Ventilate area. Only enter area with PPE. Stop or reduce leak if safe to do so.
<b>Environmental precautions</b>	Prevent from entering sewers, waterways or low areas.
<b>Methods and Materials For Containment and Cleaning Up</b>	Small Spills: Contain and soap up spill with absorbent material which does not react with spilled chemical. Put material in suitable, covered, labeled containers. Flush area with water. Do not get water inside containers.

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## **7.) HANDLING AND STORAGE**

<b>Precautions for Safe Handling</b>	Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure.
<b>Conditions for Safe Storage</b>	Store in a cool, dry, well-ventilated area. Keep out of reach of children

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## **8.) EXPOSURE CONTROLS AND PERSONAL PROTECTION**

<b>Exposure Limit(s)</b>	<b>Regulation</b>	<b>Type of Listing</b>	<b>Value</b>
<b>Component</b>			
Hydrochloric Acid (35%)	ACGIH	TLV-C	2ppm
	OSHA	PEL-T-C	5ppm (7mg/m <sup>3</sup> )

### **Engineering Control(s)**

**Ventilation Requirements** Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions must be provided in accordance with all fire codes and regulatory requirements. Supply sufficient replacement air to make up for air removed by exhaust systems.

**Other** Emergency shower and eyewash must be available and tested in accordance with regulations and be in close proximity.

### **Protective Equipment**

**Eyes/Face** Wear eye/face protection. Contact lenses should not be worn; they may contribute to severe eye injury.

**Hand Protection** Wear protective gloves

**Skin and Body Protection** Wear protective clothing and gloves. No special footwear required.

**Respiratory Protection** If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved respirator.

**Thermal Hazards** Not Available

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## **9.) PHYSICAL AND CHEMICAL PROPERTIES**

### **Appearance**

<b>Physical State</b>	Liquid
<b>Color</b>	Colorless to slightly yellow
<b>Odor</b>	Pungent odor
<b>Odor Threshold</b>	Detectable at 1-5ppm

### **Property**

<b>pH</b>	<1.5
<b>Melting Point/Freezing Point</b>	Not available
<b>Initial Boiling Point /boiling range</b>	Not Available
<b>Flash Point</b>	Not Applicable
<b>Evaporation Rate</b>	Not Available
<b>Flammability</b>	Non-Flammable
<b>Upper Flammable Limit</b>	Not Applicable
<b>Lower Flammable Limit</b>	Not Applicable
<b>Vapor Pressure(mm Hg, 20°C)</b>	Not Available
<b>Vapor Density (Air=1)</b>	Not Available
<b>Relative Density (specific gravity)</b>	1.109
<b>Solubility(ies)</b>	Completely miscible
<b>Partition Coefficient: n-octanol/water</b>	Not Available
<b>Auto-ignition Temperature</b>	Not Applicable
<b>Decomposition Temperature</b>	Not Available
<b>Viscosity</b>	Not Available

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## **10.) STABILITY AND REACTIVITY**

<b>Reactivity</b>	This material is considered to be non-reactive under normal use conditions
<b>Stability:</b>	Stable
<b>Possibility of Hazardous Reactions</b>	Reacts with metals
<b>Conditions to avoid</b>	Not applicable
<b>Incompatible Materials</b>	Oxidizers / Bases
<b>Hazardous Decomposition Products</b>	Not Available

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## **11.) TOXICOLOGICAL PROPERTIES**

### **Acute Toxicity**

<b>Component</b>	<b>Oral LD<sub>50</sub></b>	<b>Dermal LD<sub>50</sub></b>	<b>Inhalation LC<sub>50</sub></b>
Hydrochloric Acid (35%)	2,121 mg/kg (rat)	4390 mg/kg (mouse)	1106 ppm (guinea pig, 4 hr)

### **Chronic Toxicity – Carcinogenicity**

<b>Component</b>	<b>IARC</b>
Hydrochloric Acid	Not Classifiable as a human carcinogen.

**Skin Corrosion/Irritation** Corrosive. Contact may produce severe irritation or corrosive skin damage, depending upon length of contact and amount of acid.

**Ingestion** May be harmful if swallowed

**Inhalation** May cause respiratory tract irritation

**Serious Eye Damage/Irritation** Low concentrations of vapor or mist can be irritating, causing redness. Concentrated vapor, mist or splashed liquid can cause severe irritation and damage, burns and permanent blindness.

**Respiratory or skin Sensitization** Hydrochloric acid is not considered an occupational respiratory or skin sensitizer.

**Germ Cell Mutagenicity** Not available

**Reproductive Toxicity** The limited evidence available does not indicate that hydrochloric acid is a development toxin

**STOT-Single Exposure** Hydrochloric acid solutions release hydrogen chloride, a corrosive gas. Causes respiratory irritation.

**STOT-Repeated Exposure** Not available

**Aspiration Hazard** Not available

**Synergistic Materials** Not Available.

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## **12.) ECOLOGICAL INFORMATION**

### **Ecotoxicity**

<b>Component</b>	<b>Toxicity to Algae</b>	<b>Toxicity to Fish</b>	<b>Toxicity to Daphnia and Other Aquatic Invertebrates</b>
Hydrochloric Acid	EC <sub>50</sub> (Green Algae, 72 hr): 0.0492 mg/L	LC <sub>50</sub> (Cyprinus carpio, 96Hr): 4.92 mg/L	LC <sub>50</sub> (Shrimp, 48hr): 100-300 ppm

**Biodegradability** Not Applicable – hydrochloric acid disassociates in water.

**Bioaccumulation** Hydrogen chloride does not accumulate in the food chain.

**Mobility** Hydrogen Chloride dissociates into chloride and hydronium ions in moist soil.

**Other Adverse Effects** Not available

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### **13.) DISPOSAL CONSIDERATIONS**

<b>Waste From Residues/ Unused Products.</b>	Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.
<b>Contaminated Packaging</b>	Dispose in accordance with all federal, provincial and/or local regulations including the Canadian Environmental Protection Act.

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### **14.) TRANSPORT INFORMATION**

<b>UN</b>	1789
<b>UN Proper Shipping Name</b>	HYDROCHLORIC ACID
<b>Transport Hazard Class(es)</b>	8
<b>Packing Group</b>	II
<b>Environmental Hazards</b>	Not listed as a marine pollutant under Canadian TDG Regulations Schedule 1, Column 10.
<b>Special Precautions</b>	Not Available
<b>Transport in Bulk</b>	Not Available
<b>TDG</b>	
<b>Other</b>	Secure containers (full and/or empty) with suitable hold down devices during shipment and ensure all caps, valves, or closures are secured in the closed position.

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### **15.) REGULATORY INFORMATION**

NOTE: The product listed on this SDS has been classified in accordance with the hazard criteria of the controlled products Regulations. This SDS contains all the information required by those regulations.

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### **16.) OTHER INFORMATION**

Preparation Date	April 11, 2017
Revised Date	April 11/17

**USE THIS NUMBER IN CASE OF DANGEROUS GOODS EMERGENCY:  
CANUTEC 1 (613) 996-6666**

**Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.**

**Attention: Receiver of the chemical goods / SDS coordinator**

Twin Industrial Holdings Ltd. and its associated companies require, as a condition of sale, that you forward the attached Safety Data Sheet(s) to all affected employees, customers, and end-users.

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