

## 1. IDENTIFICATION

**Product Name:** POWERHOUSE 50  
**Product Numbers:** 22701, 22702, 22704, 22705  
**Product Type and Use:** Concrete / Rust Remover  
**Issue Date:** 21 September 2018  
**Revision Date:** 19 June 2019  
**Manufacturer:** Corrosion Technologies  
2638 National Drive, Garland, TX 75041  
Telephone: 972-271-7361 Fax: 972-278-9721

**Distributor in New Zealand:** Corrosion Control NZ  
48 Riverside drive  
Whangarei 0112  
Northland  
New Zealand  
Tel: +64 9-438-88-00  
**Email:** [tom@corrosionx.org](mailto:tom@corrosionx.org)

**Contact:**

**Emergency Telephone Number**  
**Poisons Information Centre**  
NZ Poison emergency no: 0800 POISON (0800 764 766)  
For Chemical Emergency ONLY (spill, leak, fire, exposure or accident), 24-hour emergency telephone, call CHEMTREC® New Zealand (Auckland) +(64)-98010034.

## 2. HAZARDS IDENTIFICATION

### Hazard Classification

#### Health Hazard(s)

Skin Irritation Category 1B  
Eye Irritation Category 1  
Acute Toxicity - Inhalation Category 4  
Acute Toxicity - Oral Category 4

#### Physical Hazard(s)

Corrosive to metals Category 1

#### Hazard(s) not otherwise classified

None

### Labeling

**Signal Word:**

**DANGER**

**Pictograms:**

Corrosion, Exclamation Mark



### Statements of Hazard

#### Hazard Statements

Causes severe skin burns and eye damage  
Harmful if inhaled or swallowed  
May be corrosive to metals

#### Precautionary Statements

Wear protective gloves, eye and face protection. Do not breathe vapors or mist. Use only outdoors or in a well-ventilated area. Take off contaminated clothing and wash it before reuse. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Store locked up. Keep only in original container. Keep container tightly closed. Absorb spillage to prevent material damage. Store in corrosive resistant container with resistant inner liner. Dispose of contents and container in accordance with applicable regulations.  
If on skin: Rinse skin with water/shower. Immediately call a poison center or doctor.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.  
If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor.  
If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Percent by Wt.
Hydrochloric acid	7647-01-0	5-20*
Phosphoric acid	7664-38-2	10-25*

\* Exact percentage of composition has been withheld as a trade secret

## 4. FIRST AID MEASURES

**General Advice:** Causes skin burns and eye damage. Avoid contact. Do not swallow. Avoid breathing vapors or mist. Use with adequate ventilation. Keep container closed.

**Inhalation:** Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor.

**Skin Contact:** Remove contaminated clothing. Flush skin with plenty of water. Remove contaminated clothing and wash before reuse. Immediately call a poison center or doctor.

**Eye Contact:** Immediately flush cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.

**Ingestion:** Do not give anything by mouth to an unconscious person. Do not induce vomiting unless advised to do so by a doctor or poison control center. Rinse mouth. Immediately call a poison center or doctor.

## 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** Product does not support combustion. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Suitable:** Carbon Dioxide, Dry Chemical, and Foam

**Unsuitable:** Alcohol, Alcohol based solutions

**Fire Fighting Procedures:** As in any fire, wear self-contained breathing apparatus, pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool fire-exposed containers with water spray.

**Unusual Fire and Explosion Hazards:** Flammable hydrogen gas may be produced on contact with aluminum, tin, lead and zinc.

**Hazardous Combustion/ Decomposition Products:** Thermal decomposition can lead to release of toxic and corrosive hydrogen chloride. Oxides of carbon, phosphorous and nitrogen.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions / Protective Equipment / Emergency Procedures:** Use caution as spills may be slippery. Ensure adequate ventilation. Use personal protective equipment.

**Methods and materials for containment and cleaning up:** Dike and contain large spills with inert absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer liquid to plastic containers. Flush surfaces with plenty of water to sanitary sewer system (If permitted by local sewer regulations). Do not store or dispense into metal containers; especially aluminum. Use clean non-sparking tools to collect absorbed material and transfer to a properly labeled container for recovery or disposal according to local / national regulations.

## 7. HANDLING AND STORAGE

### HANDLING

**Precautions for Safe Handling:** Avoid skin and eye contact. Use with adequate ventilation. Avoid breathing mist or vapors. Follow all SDS/label precautions.

### STORAGE

**Conditions to avoid:** Store in a cool, dry, well-ventilated place in the original container. Do not transfer or store in metal containers. Keep container tightly closed when not in use. Avoid excess heating and high temperatures.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE LIMITS

Component	ACGIH		OSHA		NIOSH	STEL
	TLV ppm	TLV mg/m3	PEL ppm	PEL mg/m3	IDLH ppm	mg/m3
Hydrochloric Acid	2	-	5	7	50	-
Phosphoric Acid	-	1	-	1	-	3

**Engineering Controls:** Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.

### Personal Protection

**Respiratory Protection:** In case of insufficient ventilation, wear a suitable NIOSH approved air purifying respirator with acid vapor cartridge.

**Hand / Skin Protection:** Wear impermeable gloves such as neoprene or nitrile rubber gloves. Gauntlets and apron may be worn depending on the extent of exposure.

**Eye / Face Protection:** Face shield with safety glasses with side-shields.

**General Hygiene Measures:** Avoid contact. Always wash hands and face before eating, drinking or smoking. Remove and wash contaminated clothing before re-use. An eyewash station and washing facilities should be readily accessible to the area of use. See 29 CFR 1910.132-138 for further guidance.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Transparent	<b>Autoignition Temperature:</b>	Not applicable
<b>Physical State:</b>	Non-viscous liquid	<b>Volatile by volume (%):</b>	100
<b>Odor:</b>	Pungent	<b>Vapor Density (Air=1):</b>	>1
<b>Color:</b>	Light Green	<b>Evaporation Rate (BuAc= 1):</b>	<1
<b>Viscosity, cSt @ 40°C:</b>	Not established	<b>Vapor Pressure (mmHg @23°C):</b>	21.1
<b>cSt @ 100°C:</b>	Not established	<b>Solubility in water:</b>	Complete
<b>pH:</b>	<1	<b>Octanol/Water Partition:</b>	Not established
<b>Boiling Point/ Range:</b>	>275°F / 135°C	<b>VOC Content g/l (%):</b>	0 (0)
<b>Melting Point:</b>	>32°F / 0°C	<b>Specific Gravity @15.6°C:</b>	1.15
<b>Flash Point:</b>	Non-flammable	<b>Pour Point:</b>	Not established
<b>Method:</b>	Not applicable	<b>Non-volatile by Volume (%):</b>	0
<b>Lower Explosive Limit, vol %:</b>	Hydrogen, 4	<b>Dielectric Strength:</b>	Not applicable
<b>Upper Explosive Limit, vol %:</b>	Hydrogen, 75		

## 10. STABILITY AND REACTIVITY

**Stability:** Stable at ambient temperatures

**Conditions to Avoid:** None known

**Hazardous Polymerization:** Will not occur.

**Materials to Avoid:** Aluminum and other reactive metals, oxidizing agents, alkali/ bases, chlorate, nitrates, sulfides, bleach, ammonia and hypochlorites (chlorine bleach).

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

**Product Information:** Not established

### Ingredient Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrochloric acid	700 mg/kg (Rat)	> 5010 mg/kg (Rabbit)	3124 ppm (Rat) 1 h
Phosphoric acid	1530 mg/kg (Rat)	2740 mg/kg (Rabbit)	> 850 mg/m3 (Rat) 1 h

**Acute Effects****Signs and Symptoms of Overexposure:** Severe skin burns and eye damage, Coughing, Sneezing**Inhalation:** Vapors and mist may cause respiratory irritation with nasal discomfort and discharge, coughing and sneezing.**Skin Contact:** May cause redness, pain and burns.**Eye Contact:** May cause tearing, redness, pain, swelling of the conjunctiva and burns. May cause blindness.**Ingestion:** May cause pain, nausea, vomiting and diarrhea.**Primary Route(s) of Exposure:** Eyes, Skin, Inhalation**Primary Route(s) of Entry:** Inhalation, Ingestion**Target Organs:** Skin, Eyes, Lungs**Chronic Effects:** None known**Carcinogenicity:** Not established**Medical Conditions Aggravated by Exposure:** May aggravate existing skin, eye and respiratory conditions including asthma and dermatitis.**12. ECOLOGICAL INFORMATION****Product Data:** Not established**Ingredient Data**Hydrochloric acid: Toxicity to Fish LC50 282 mg/L *Gambusia affinis* 96 h

Phosphoric acid: Toxicity to Fish LC50 = Mosquito Fish 138 mg/L 96 h

**Elimination Information:** Not established**13. DISPOSAL CONSIDERATIONS****Product:** Dispose of in accordance with local, state and Federal regulations.**Container:** Empty remaining contents. Empty containers should be taken for local recycling, recovery, or waste disposal.**14. TRANSPORT INFORMATION****Road Transport****DOT Hazard Class:** 8**Description:** Corrosive liquid**UN-No.:** UN1760**Proper Shipping Name:** Corrosive liquids, n.o.s., 8, pg II (containing hydrochloric and phosphoric acid)**Sea Transport****IMDG/GGV See Class:** 8**UN-No.:** UN1760**Packing Group:** II**Proper Shipping Name:** Corrosive liquids, n.o.s., 8, pg II (containing hydrochloric and phosphoric acid)**Air Transport****ICAO/IATA Class:** 8**UN-No.:** UN1760**Packing Group:** II**Shipping Name:** Corrosive liquids, n.o.s., 8, pg II (containing hydrochloric and phosphoric acid)**15. REGULATORY INFORMATION****U.S. Federal Regulations****Toxic Substances Control Act (TSCA):** All components are included on the Inventory**Superfund Amendments and Reauthorization Act (SARA) Title III:**

Immediate Hazard	Delayed Hazard	Fire Hazard	Pressure Hazard	Reactivity Hazard
X	-	-	-	-

**New Zealand**

Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation.

**HSNO approval number:** Cleaning Products (Corrosive) Group Standard 2017 - HSR002526**HSNO classification:** 6.1D, 8.1A, 8.2B, 8.3A**NZIoC (New Zealand Inventory of Chemicals):** All components are listed on the NZIoC inventory or are exempt.**16. OTHER INFORMATION****Prepared by:** Corrosion Technologies, Technical Services Department**Revision Indicator:** NZ1.3

National Fire Protection Association (704)

Health: 3      Flammability: 1      Reactivity: 0      Other: -

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 damage incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical and application of such products is the sole responsibility of the user. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers. It is the sole responsibility of the user to comply with all applicable Federal, State and Local Laws and Regulations. Any questions with regards to information contained herein should be referred to: U. S. Corrosion Technologies, LLC (972) 271-7361.