

# SAFETY DATA SHEET

## Concrete & Metal Cleaner

Revision Date: December 19, 2020

### SECTION 1. IDENTIFICATION

#### 1.1 Identifier

Product Brand name: Concrete & Metal Cleaner

Product Description: Blend of various acids with other adjuvant.

Product Code: 200480

#### 1.2 Recommended Use & Restriction on Use:

Cleaning Metal and Inorganic Surfaces.

Not for Food, Drug, Pesticide or Biocide use. Read all 16 sections stated herein thoroughly and completely.

#### 1.3 Details of the supplier of the safety data sheet

##### Tidol Corporation

146 Shorting Road, Scarborough ON M1S 3S6, Canada

Tel: 416-293-2244/ 1-800-881-8672 Fax: 416-293-5808

Email: info@tidolcorp.com

#### 1.4 Emergency Telephone Number

Vendor 1-800-881-8672 or 416-293-2244 - 24hrs

### SECTION 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or Mixture

Skin Corrosion (Category 1B)

Serious Eye Damage (Category 1)

Metal Corrosion (Category 1)

Specific target Organ (Category 3)

#### 2.2 Label elements



**Signal Word** Warning

#### Hazard Statements

**H318:** Causes serious eye damage (Cat 1)

**H314:** Causes severe skin burns and eye damage (Cat 1)

**H370:** Causes damage to organs (Cat 1)

**H305:** May be harmful if swallowed and enters airways (Cat 2)

#### Precautionary Statements

##### Prevention

**P280:** Wear protective gloves/ eye protection/ face protection.

**P305+351+338:** If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**2.3. Supplemental label elements:** Mix only with water, do not mix with any other product or chemicals.

## Storage

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

P405-Store locked up.

P406- Store in corrosive resistant/container with a resistant inner liner.

## Disposal

P501- Dispose of contents/container in accordance with local, regional, national, and international regulations.

## 2.4 Other hazards

### Potential Acute Health Effects:

Very hazardous in case of contact with eye, skin, ingestion and inhalation. Liquid or spray mist may produce tissue damage especially mucous membranes of eyes, mouth and respiratory tract. Will burn eyes and skin on contact. Respiratory track characterized by coughing, choking and shortness of breath. Inflammation of eyes results in redness, watering and itching. Skin contact results in scaling, redness or blistering.

### Potential Chronic Health Effects:

Carcinogenic Effects, NA; Mutagenic Effects, NA; Teratogenic Effects, NA; Developmental Toxicity, NA. May be toxic to kidneys, liver, mucous membranes, respiratory tract, skin and teeth.

### Target Organs

Respiratory Tract

### NFPA Rating

Health hazard: 3

Fire: 0

Reactivity Hazard: 1

### HMIS Classification

Health hazard: 3

Flammability: 0

Physical hazards: 1

## 2.5 Unknown Acute Toxicity

No information available

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

No information available

### 3.2 Mixtures

COMPONENT	CAS #	CONCENTRATIONS W/W
Hydrochloric Acid	7647-01-0	10-20%
Phosphoric Acid	7664-38-2	10-20%
Citric Acid	77-92-9	2-5%

## SECTION 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

**Eye contact:** Check for and remove any contact lenses. Immediately flush eyes with water for 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

**Skin contact:** Flush skin with water for 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

**Inhalation:** Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

**Ingestion:** Call medical doctor or poison control center immediately. Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

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

Product is a corrosive material; causes burns by all exposure routes. Ingestion causes severe swelling, severe damage to delicate tissue and danger of perforation. Use of gastric lavage or emesis contraindicated due to the product being corrosive. Possible perforation of stomach or esophagus should be investigated.

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

No information Available.

### SECTION 5. FIRE FIGHTING MEASURES

<b>Flammability of the product</b>	:	Non-Flammable
	:	Use suitable media for surrounding materials. If water use fog spray, avoid direct stream.
<b>Special exposure hazards</b>	:	Avoid contact with metal, hydrogen chloride gas can react with aluminum, tin, lead, zinc
<b>Decomposition products</b>	:	Decomposition products: hydrogen gas, hydrogen chloride gas
<b>Special protective equipment for fire-fighters</b>	:	Use self-contained breathing apparatus with water spray.
<b>Explosion hazards</b>	:	Hydrogen gas can form in fire situation which is flammable.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

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

Keep unnecessary and unprotected personnel from entering area. Avoid breathing vapors. Provide adequate ventilation. Do not touch or walk through spilled material. Beware of vapors accumulating to form explosive hydrogen gas mixtures. Full personal safety equipment (suit gloves, respirator, face shield) required.

#### 6.2 Environmental precautions

Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers. Contain spill area.

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

Corrosive liquid! Ventilate area. Prevent runoff. Contain and collect spillage with absorbent material e.g. sand, earth, vermiculite etc and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Dilute with water and mop-up or absorb with an inert dry material and place in an appropriate waste disposal container. Avoid contact with strong oxidizers.

#### 6.4 Reference to other sections

No information available.

### SECTION 7. HANDLING AND STORAGE

**7.1 Handling** Avoid breathing vapors or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store in ventilated areas.

**7.2 Storage** Store in a well-ventilated, cool area for corrosive liquids. Keep container tightly closed and sealed until ready for use.

#### 7.3 Incompatibilities/Specific end uses

**Incompatibilities** Other Detergent Products, acids and bases

**Specific end uses** Industrial Use.

#### Additional Information

Special shipping instructions: Protect against physical damage. Use precaution when handling or shipping any chemical substance. Present appropriate placards when applicable, be sure documentation is correct, and each container has the proper safety marks affixed.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure limits: For Concentrated Hydrochloric Acid

**ACGIH TLV:** TWA, 5 ppm, STEL1ppm

**OSHA PEL:** TWA: 5 ppm, STEL1ppm

**NIOSH REL:** TWA: 5 ppm, STEL1ppm

**Carcinogenicity:** NA

**Engineering measures** : Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne concentrations below any recommended threshold limits. Full safety shower should be in close proximity to working area.

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating and using the lavatory. Wash contaminated clothing before reusing.

### Personal protection

**Respiratory** : If used in poorly ventilated areas, use a properly fitted, air-purifying or air-fed respirator complying with an approved standard. Respirator selection must be based on known or anticipated exposure levels.

**Hands** : Chemical-resistant neoprene gloves

**Eyes** : Safety eyewear; splash goggles, face shield

**Skin** : Lab coats for personal protective equipment and should be approved by a specialist before handling this product. Depending on volume/conditions a full acid suit may be necessary.

### Environmental exposure

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Appearances	Liquid
Initial Boiling Point	Not applicable
Boiling Range	105 °C / 221 °F
Bulk Densities	Not Applicable
Evaporation Rate	Not Applicable
Flammability	Non flammable
Upper Flammability limit	Non Flammable
Lower Flammability limit	Non flammable
Partition coefficient	Not available
Auto Ignition temperature	Non flammable
Decomposition Temperature	Not available
Color	Clear/Colorless
Densities	Not Available.
Explosive properties	Not Applicable
Extinguishing Media for Fires	Non-Flammable
Flash Points	Not Available.
Heats of Combustion	Not Available.
Henry's Law Constant	Not Available.
Melting point/freezing point	-35 °C / -31 °F
Odor Threshold Values	Not Available.
Odors	Pungent
Percent Volatility	Not Available.
pH Value	1.00 ± 0.50
Specific Gravity	1.025
Vapor Pressures	Not Available.
Viscosity	Not Applicable
Water Miscibility	Water Soluble

Water Solubility (Qualitative) Infinite  
**9.2 Other information**

### **SECTION 10. STABILITY AND REACTIVITY**

**Chemical stability** : The product is stable under normal conditions.  
**Possibility of hazardous reactions** : Very Corrosive. Under normal conditions of storage and use, hazardous reactions will not occur.  
**Hazardous polymerization** : Under normal conditions of storage and use, hazardous polymerization will not occur.  
**Conditions to avoid** : Reaction with water is exothermic  
**Materials to avoid** : Reactive or incompatible with: oxidizing materials, metals and alkaline materials  
**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not occur. Explosive hydrogen chloride/gas may form if decomposition occurs.

### **SECTION 11. TOXICOLOGICAL INFORMATION**

#### **Acute toxicity**

Oral LD50-Rabbit 900mg/kg

Inhalation LC50, Mouse 1hr --- 1108ppm; Rat 1hr, 3124ppm

#### **Other information on acute toxicity**

No data available

**Skin corrosion/irritation** Corrosive through skin absorption

#### **Serious eye damage/eye irritation**

Eyes: very corrosive

#### **Respiratory or skin sensitization**

Dryness, reddening, blistering

#### **Germ cell mutagenicity**

No data available

#### **Specific target organ toxicity -- single exposure (Globally Harmonized System)**

Liver, respiratory/gastro tract, eyes and skin

#### **Specific target organ toxicity -- repeated exposure (Globally Harmonized System)**

Liver, respiratory/gastro tract, eyes, skin and general overall organs

#### **Aspiration hazard**

Will burn mouth, throat and respiratory tract

#### **Potential health effects**

**Inhalation** May be toxic if inhaled. Causes respiratory tract inflammation/burns.

**Ingestion** May be toxic if swallowed and causes burns/tissue destruction.

**Skin** Toxic if absorbed through skin. Causes skin irritation/blisters.

**Eyes** Will burn eyes on contact.

#### **Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### **SECTION 12. ECOLOGICAL INFORMATION**

#### **12.1 Toxicity**

LC50, fish 282mg/L 96 hr

#### **12.2 Persistence and degradability**

Expected to be biodegradable

#### **12.3 Bio accumulative potential**

No information available.

#### **12.4 Mobility in soil**

Product absorbs weakly to most soil types

12.5 Results of PBT and vPvB assessment No information available.  
12.6 Other adverse effects No information available.  
12.7 Additional Information

### SECTION 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

All waste from this product including all empty containers must be disposed of in accordance with municipal, provincial and federal regulations.

Methods of disposal No information available.  
Contaminated packaging No information available.

### SECTION 14. TRANSPORT

#### Product as sold

##### Land Transport -TDG Ground/Rail

14.1 UN number UN1789  
14.2 UN proper shipping name UN1789, Hydrochloric Acid, Class 8, PG II  
14.3 Transport hazard class(es) 8  
14.4 Packing group II  
14.5 Environmental hazards No information available.  
14.6 Special precautions for user Follow sections 2,3,and 4

### SECTION 15. REGULATORY INFORMATION

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

TSCA 8 (b): Listed on inventory

SARA 302/311/312/313/: Extremely hazardous material; RQ5000lbs, TPQ500lbs gas

OSHA Hazardous by definition (29CFR 1910.1200)

EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances

WHMIS (Canada): Class D-2A Material causing other toxic effects; Class E: Corrosive liquid

DEA List I Chemicals

Precursor Chemicals): Not listed

DEA List II Chemicals Essential Chemicals):

RTK: Hydrochloric Acid Concentrated, CAS 7647-01-0, Listed, CA, CT, FL, MA, MN, NJ, PA, RI

California Prop 65 Components: No components listed for causing cancer, birth defects or any reproductive harm.

#### 15.2 Chemical Safety Assessment

No Information Available

### SECTION 16. OTHER INFORMATION

Specific Hazard: N/A

HMIS Ratings :

HEALTH	<input type="checkbox"/>
FLAMMABILITY	<input type="checkbox"/>
PHYSICAL HAZARD	<input type="checkbox"/>
PERSONAL PROTECTION	<input type="checkbox"/>

The information on this Safety Data Sheet has been obtained from the Globally Harmonized System of Classification and Labeling of Chemicals, Guidance on the preparation of Safety Data Sheet, Suppliers, Manufacturers, and where applicable, from other reliable sources such as CCOHS, RTECS and worldwide web. However, TIDOL CORPORATION makes no warranties, expressed or implied, as to the accuracy; completeness or adequacy of the information contained herein, and shall not be held liable, regardless of fault, to anyone directly or indirectly for damages or injuries in the use of this product arising out of or in connection with the accuracy, completeness or adequacy of such information. It is the purchaser and the user of the product to evaluate the usefulness of the product and the information inscribed here.

Free samples are provided for testing for fitness of the product for use by the purchaser or another third party client and their compliance with applicable statutes is a strict condition of sale. All information given in course of communication is from the best of our knowledge of the products. All recommendations and suggestions are believed to be reliable within limited scope, but

should not be construed as warranties. Tidol Corporation, their associated companies and directors disclaim any liability in connection with the purchase, transportation, storage and the use of the product or any data communication.