

**SPARTAN CHEMICAL COMPANY, INC.  
WHMIS MATERIAL SAFETY DATA SHEET**

**SECTION I: PRODUCT INFORMATION**

**PRODUCT IDENTIFIER  
HEAVY DUTY BOWL CLEANSE**

**PRODUCT USE:** Hydrochloric Acid-Based Toilet Bowl Cleaner

**MANUFACTURER'S NAME & ADDRESS**  
Spartan Chemical Company, Inc.  
1110 Spartan Drive, Maumee, OH 43537 USA

**MEDICAL EMERGENCY TELEPHONE**  
888/314-6171 (24 Hours)  
**PRODUCT INFORMATION**  
800/537-8990

**SECTION II: HAZARDOUS INGREDIENTS**

CAS REGISTRY NO.	% W	CHEMICAL NAME(S)	TLV			LD50	LC50
			TWA mg/m <sup>3</sup>	STEL mg/m <sup>3</sup>	Ceiling mg/m <sup>3</sup>		
7647-01-0	20-25	Hydrochloric acid	---	---	7 (3 ACGIH)	Not available	Not available

**SECTION III: PHYSICAL DATA**

<b>BOILING POINT</b> 104 °C (220°F)	<b>SPECIFIC GRAVITY (H<sub>2</sub>O = 1)</b> 1.11	<b>PERCENT SOLID BY WEIGHT</b> < 1
<b>VAPOUR PRESSURE</b> Not established	<b>EVAPORATION RATE (butyl acetate = 1)</b> < 1	<b>FREEZING POINT</b> Not available
<b>VAPOUR DENSITY (AIR = 1)</b> Not established	<b>SOLUBILITY IN WATER</b> Complete	<b>ODOUR THRESHOLD</b> Not available
<b>pH</b> < 1.0	<b>APPEARANCE AND ODOUR</b> Opaque white liquid, acrid odor	<b>PHYSICAL STATE</b> GAS__ LIQUID <u>X</u> SOLID_____
<b>COEFFICIENT OF WATER/OIL DISTRIBUTION</b> Not available		

**SECTION IV: FIRE & EXPLOSION DATA**

<b>FLASH POINT</b> >104 °C (220°F)	<b>METHOD USED</b> ASTM - D56	<b>FLAMMABLE LIMITS</b> Not established
<b>EXTINGUISHING MEDIA</b> Product does not support combustion. Not applicable	<b>CONDITIONS OF FLAMMABILITY</b>	<b>AUTO-IGNITION TEMPERATURE</b> Not applicable
<b>HAZARDOUS COMBUSTION PRODUCTS</b> Not established		<b>EXPLOSION DATA</b> Not applicable
<b>SPECIAL FIRE FIGHTING PROCEDURES</b> Use self-contained breathing apparatus for maximum respiratory protection. Water may be used to cool containers if not ruptured or leaking.		
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS</b> Combustion products are toxic. Acid action on most metals may release hydrogen, an explosive gas.		

## SECTION V: REACTIVITY DATA

**STABILITY:** STABLE X

**CONDITIONS OF INSTABILITY**

Not established

**CONDITIONS OF REACTIVITY**

Not established

**INCOMPATIBILITY (MATERIALS TO AVOID)** Concentrated alkali, hypochlorites, (chlorine bleach), ammonia, cyanides and oxidizers.

**HAZARDOUS DECOMPOSITION PRODUCTS** HCL, Carbon dioxide, carbon monoxide

## SECTION VI: TOXICOLOGICAL PROPERTIES

**PRIMARY ROUTES OF ENTRY:** Eye Contact, Skin Contact, Ingestion, Inhalation

### EXPOSURE LIMIT

Not established for mixture.

### EFFECTS OF ACUTE EXPOSURE:

**EYE CONTACT:** Causes irreversible eye damage with symptoms such as chemical burns, pain, redness, swelling of the conjunctiva, tissue destruction and possible permanent corneal damage

**SKIN CONTACT:** Causes severe skin damage with symptoms such as chemical burns, pain, redness and tissue destruction.

**INGESTION:** May be harmful or fatal if swallowed with symptoms such as damage or chemical burns to esophagus and mucous membranes with symptoms of pain, nausea, vomiting and diarrhea. Aspiration of product into the lungs may occur during ingestion or vomiting, resulting in lung injury.

**INHALATION:** Breathing product mist may cause respiratory irritation with symptoms of nasal discomfort, discharge and coughing.

### EFFECTS OF CHRONIC EXPOSURE

None known

### IRRITANCY OF PRODUCT

Corrosive to eyes and skin.

### SENSITIZATION TO PRODUCT

Not available

### CARCINOGENICITY

No

### REPRODUCTIVE TOXICITY

Not available

### TERATOGENICITY

Not available

### MUTAGENICITY

Not available

### SYNERGISTIC PRODUCTS

Not available

## SECTION VII: PREVENTIVE MEASURE

### PERSONAL PROTECTIVE EQUIPMENT / ENGINEERING CONTROLS:

Wear rubber or other impervious gloves and splash goggles. Provide good general ventilation. Local exhaust ventilation may be necessary for some operations. If respiratory irritation can not be prevented by ventilation, use of a NIOSH approved respirator suitable for the conditions of use and chemicals in Section II should be considered.

**LEAK AND SPILL PROCEDURE:** Dike and contain spills with inert material and transfer to containers for recovery or disposal. Rinse area with water and flush to sanitary sewer. Keep spill out of storm sewers and waterways.

**WASTE DISPOSAL METHOD:** Assure conformance with applicable regulations.

**HANDLING PROCEDURES:** Do not get in eyes, on skin, or on clothing. Do not swallow. Avoid breathing product mist. Wash thoroughly after handling. Add product to water only. Do not mix with hypochlorite-type bleach, ammonia or other household chemicals as hazardous vapors or gases may be produced.

**STORAGE REQUIREMENTS:** Keep container closed when not in use. Do not store above 43°C (110°F). Do not store or dispense into metal containers, especially aluminum. Keep out of reach of children.

**SPECIAL SHIPPING INFORMATION:** UN 1760, Corrosive liquids, n.o.s., (contains hydrochloric (muriatic) acid), 8, III

## SECTION VIII: FIRST AID MEASURES

**EYES:** Flush eyes with water for at least 15 minutes. Remove contact lenses. Get medical attention.

**SKIN:** Remove contaminated clothing. Flush skin with water for at least 15 minutes. Get medical attention if irritation persists. Wash contaminated clothing before reuse.

**INGESTION:** Get immediate medical attention. Do not induce vomiting. Drink one or two glasses of water to dilute product. Get medical attention. Do not give anything by mouth to an unconscious person.

**INHALATION:** In case of respiratory irritation or dizziness, move person to fresh air. Get medical attention if irritation persists.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

## SECTION IX: PREPARATION INFORMATION

### HEAVY DUTY BOWL CLEANSE

**DATE OF PREPARATION:** June 1, 2013

**SUPERCEDES:** June 1, 2010

**PREPARED BY:** Ronald T. Cook / Manager, Regulatory Affairs / Spartan Chemical Company, Inc.

**TELEPHONE NUMBER:** 800/537-8990