



# Safety Data Sheet

Issue Date: 22-Mar-2013

Revision Date: 03-Feb-2014

Version 2

## 1. IDENTIFICATION

### Product Identifier

**Product Name** Bowl Descaler Pro

### Other means of identification

**SDS #** SVM-007  
**Product Code** 23989  
Formula code T1002B  
**UN/ID No** UN1789

### Recommended use of the chemical and restrictions on use

**Recommended Use** Toilet bowl cleaner.

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

#### **Manufacturer Address**

ServiceMaster™ Clean  
3839 Forest Hill Irene Rd.  
Memphis, TN, USA. 38125

#### **Emergency Telephone Number**

**Company Phone Number** 1-800-756-5656 (ServiceMaster™ Clean)  
**Emergency Telephone (24 hr)** INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Appearance** Opacified white

**Physical State** Liquid

**Odor** Acetophenone

### Classification

Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3
Corrosive to Metals	Category 1

### Hazards Not Otherwise Classified (HNOC)

May be harmful if swallowed

### Signal Word

**Danger**

### Hazard Statements

Causes severe skin burns and eye damage  
May cause respiratory irritation. May cause drowsiness or dizziness  
May be corrosive to metals

**Precautionary Statements - Prevention**

Do not breathe dust/fume/gas/mist/vapors/spray  
 Wash face, hands and any exposed skin thoroughly after handling  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Use only outdoors or in a well-ventilated area  
 Keep only in original container

**Precautionary Statements - Response**

Immediately call a poison center or doctor/physician  
 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/physician  
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 Wash contaminated clothing before reuse  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 Immediately call a poison center or doctor/physician  
 IF SWALLOWED: rinse mouth. Do NOT induce vomiting  
 IN CASE OF SPILL: Absorb spillage to prevent material damage

**Precautionary Statements - Storage**

Store locked up  
 Store in a well-ventilated place. Keep container tightly closed  
 Store in corrosive resistant/ compatible container with a resistant inner liner

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Water	7732-18-5	70-80
Hydrochloric acid	7647-01-0	15-25

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

## 4. FIRST-AID MEASURES

### First Aid Measures

<b>General Advice</b>	Provide this SDS to medical personnel for treatment.
<b>Eye Contact</b>	Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention immediately.
<b>Skin Contact</b>	Immediately flush with cool water for 15 minutes while removing contaminated clothing and shoes. Discard or wash well before reuse. Immediately call a poison center or doctor/physician.
<b>Inhalation</b>	Remove to fresh air. Immediately call a poison center or doctor/physician.
<b>Ingestion</b>	Immediately contact doctor or poison control center. Do not induce vomiting. Rinse mouth with water then drink one or two glasses of water. Get immediate medical attention. Never give anything by mouth if victim is unconscious, or is convulsing.

### Most important symptoms and effects

<b>Symptoms</b>	Eye: Causes chemical burns. May cause permanent damage Skin: Causes chemical burns. Inhalation: May cause respiratory tract irritation. Ingestion: Harmful or fatal if swallowed. Causes chemical burns to mouth, throat and stomach.
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### Indication of any immediate medical attention and special treatment needed

<b>Notes to Physician</b>	Treat symptomatically.
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## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** Not determined.

### Specific Hazards Arising from the Chemical

Product is not flammable or combustible.

**Hazardous Combustion Products** May include and are not limited to oxides of carbon, hydrochloric acid fumes.

### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

- Personal Precautions** Wear protective clothing as described in Section 8 of this safety data sheet.
- Environmental Precautions** Prevent large spills from entering sewers or waterways. See Section 12 for additional Ecological Information.

### Methods and material for containment and cleaning up

- Methods for Containment** For small spills, absorb on polypads or other suitable non-reactive absorbent materials.
- Methods for Clean-Up** Before attempting clean up, refer to hazard data given above. Sweep up absorbed material and shovel into suitable containers for disposal. Contact emergency services and supplier for advice.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

- Advice on Safe Handling** Handle in accordance with good industrial hygiene and safety practice. Keep out of the reach of children. Use personal protection recommended in Section 8. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands, and any exposed skin thoroughly after handling. Use only with adequate ventilation.

### Conditions for safe storage, including any incompatibilities

- Storage Conditions** Store in a closed container away from incompatible materials. Store locked up.
- Incompatible Materials** Caustics, oxidizers, metals.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrochloric acid 7647-01-0	Ceiling: 2 ppm	(vacated) Ceiling: 5 ppm (vacated) Ceiling: 7 mg/m <sup>3</sup> Ceiling: 5 ppm Ceiling: 7 mg/m <sup>3</sup>	IDLH: 50 ppm Ceiling: 5 ppm Ceiling: 7 mg/m <sup>3</sup>

### Appropriate engineering controls

- Engineering Controls** Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS. General ventilation normally adequate.

### Individual protection measures, such as personal protective equipment

- Eye/Face Protection** Chemical splash goggles.
- Skin and Body Protection** Rubber gloves. Confirm with a reputable supplier first.
- Respiratory Protection** Not normally required if good ventilation is maintained.
- General Hygiene Considerations** Wash contaminated clothing before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical State</b>	Liquid	<b>Odor</b>	Acetophenone
<b>Appearance</b>	Opacified white	<b>Odor Threshold</b>	Not available
<b>Color</b>	Opacified white		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	<1.0	
<b>Melting Point/Freezing Point</b>	Not available	
<b>Boiling Point/Boiling Range</b>	Not available	
<b>Flash Point</b>	None	
<b>Evaporation Rate</b>	Not available	
<b>Flammability (Solid, Gas)</b>	Not determined	
<b>Upper Flammability Limits</b>	Not applicable	
<b>Lower Flammability Limit</b>	Not applicable	
<b>Vapor Pressure</b>	Not available	
<b>Vapor Density</b>	Not available	
<b>Specific Gravity</b>	1.10-1.15	
<b>Water Solubility</b>	Completely soluble	
<b>Solubility in other solvents</b>	Not determined	
<b>Partition Coefficient</b>	Not determined	
<b>Auto-ignition Temperature</b>	Not determined	
<b>Decomposition Temperature</b>	Not determined	
<b>Kinematic Viscosity</b>	Not determined	
<b>Dynamic Viscosity</b>	Water thin	
<b>Explosive Properties</b>	Not determined	
<b>Oxidizing Properties</b>	Not determined	
<b>Density</b>	Density: pounds per gallon 259.180-9.597	

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### Chemical Stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to Avoid

Incompatible Materials.

### Incompatible Materials

Caustics, oxidizers, metals.

### Hazardous Decomposition Products

May include and are not limited to oxides of carbon, hydrochloric acid when heated to decomposition.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

<b>Eye Contact</b>	Causes severe eye damage.
<b>Skin Contact</b>	Causes severe skin burns.
<b>Inhalation</b>	May cause irritation to the mucous membranes and upper respiratory tract.
<b>Ingestion</b>	May be harmful if swallowed. Can cause irritation and corrosive burns to mouth, throat, and stomach.

### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Hydrochloric acid 7647-01-0	= 700 mg/kg ( Rat )	> 5010 mg/kg ( Rabbit )	= 3124 ppm ( Rat ) 1 h

### Information on physical, chemical and toxicological effects

**Symptoms** Please see section 4 of this SDS for symptoms.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested.

Chemical Name	ACGIH	IARC	NTP	OSHA
Hydrochloric acid 7647-01-0		Group 3		

*IARC (International Agency for Research on Cancer)*

*Group 3 IARC components are "not classifiable as human carcinogens"*

**STOT - single exposure** May cause respiratory irritation. May cause drowsiness or dizziness.

**Chronic toxicity** Prolonged or repeated exposure to dilutions can cause drying, de-fatting and dermatitis.

### Numerical measures of toxicity

Not determined

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**Component Information**

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Hydrochloric acid 7647-01-0		282: 96 h Gambusia affinis mg/L LC50 static		

**Persistence/Degradability**

Not determined.

**Bioaccumulation**

Not determined.

**Mobility**

Not determined

**Other Adverse Effects**

Not determined

**13. DISPOSAL CONSIDERATIONS**

**Waste Treatment Methods**

**Disposal of Wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**14. TRANSPORT INFORMATION**

**Note**

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT**

UN/ID No UN1789  
 Proper Shipping Name Hydrochloric acid  
 Hazard Class 8  
 Packing Group II  
 Reportable Quantity (RQ) 5000 lbs

**IATA**

UN/ID No UN1789  
 Proper Shipping Name Hydrochloric acid  
 Hazard Class 8  
 Packing Group II

**IMDG**

UN/ID No UN1789  
 Proper Shipping Name Hydrochloric acid  
 Hazard Class 8  
 Packing Group II

**TDG**

UN/ID No	UN1789
Proper Shipping Name	Hydrochloric acid
Hazard Class	8
Packing Group	II

<b>15. REGULATORY INFORMATION</b>
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**International Inventories**

<b>TSCA</b>	All ingredients are listed or exempt from listing on Chemical Substance Inventory
<b>DSL</b>	Listed
<b>NDSL</b>	Listed

**Legend:***TSCA - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List**EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances**ENCS - Japan Existing and New Chemical Substances**IECSC - China Inventory of Existing Chemical Substances**KECL - Korean Existing and Evaluated Chemical Substances**PICCS - Philippines Inventory of Chemicals and Chemical Substances***US Federal Regulations****CERCLA**

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Hydrochloric acid 7647-01-0	5000 lb	5000 lb	RQ 5000 lb final RQ RQ 2270 kg final RQ

**SARA 313**

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Hydrochloric acid - 7647-01-0	7647-01-0	15-25	1.0

**CWA (Clean Water Act)**

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Hydrochloric acid 7647-01-0 ( 15-25 )	5000 lb			X

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Hydrochloric acid 7647-01-0	X	X	X



**16. OTHER INFORMATION**

<b><u>NFPA</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Instability</b>	<b>Special Hazards</b>
	3	0	1	Cor
<b><u>HMIS</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Physical Hazards</b>	<b>Personal Protection</b>
	3	0	1	Not determined

**Issue Date:** 22-Mar-2013  
**Revision Date:** 03-Feb-2014  
**Revision Note:** New format

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**