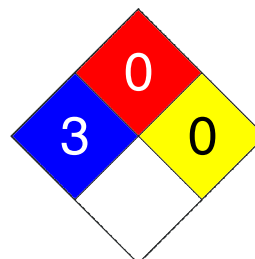


## 1. Product and Company Identification

**Product Name** ACE Toilet Bowl Cleaner  
**CAS #** Mixture  
**Product use** Toilet bowl cleaner  
**Manufacturer** Iron Out dba Summit Brands  
 7201 Engle Road  
 Fort Wayne, IN 46804-5875 US  
 Phone: 260-483-2519  
 Emergency Phone: 1-800-424-9300 (CHEMTREC)

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	* 3
Flammability	0
Physical Hazard	0
Personal Protection	B



## 2. Hazards Identification

**Emergency overview** DANGER  
CAUSES EYE BURNS. CAUSES SKIN BURNS.

**Potential short term health effects**

**Routes of exposure** Eye, Skin contact, Inhalation, Ingestion.

**Eyes** Causes chemical burns. May cause blindness.

**Skin** Causes chemical burns.

**Inhalation** May cause respiratory tract irritation or chemical burns.

**Ingestion** Harmful if swallowed. May cause chemical burns to mouth, throat and stomach.

**Target organs** Eyes. Respiratory system. Skin.

**Chronic effects** Prolonged or repeated exposure to dilutions can cause drying, defatting and dermatitis.

**Signs and symptoms** The product causes burns of eyes, skin and mucous membranes.

**OSHA Regulatory Status** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Potential environmental effects** See section 12.

## 3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Hydrogen chloride	7647-01-0	7 - 13
Ethoxylated aliphatic amines	61791-26-2	1 - 5
Methyl salicylate	119-36-8	0.1 - 1

## 4. First Aid Measures

**First aid procedures**

**Eye contact** Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention immediately.

**Skin contact** Immediately flush with cool water for 15 minutes while removing contaminated clothing and shoes. Discard or wash well before reuse. Obtain medical advice immediately.

**Inhalation** If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

**Ingestion** Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.

**Notes to physician**

Symptoms may be delayed.

**General advice**

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

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## 5. Fire Fighting Measures

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**Flammable properties**

Not flammable by WHMIS/OSHA criteria.

**Extinguishing media****Suitable extinguishing media**

Treat for surrounding material.

**Unsuitable extinguishing media**

Not available

**Protection of firefighters****Specific hazards arising from the chemical**

Not available

**Protective equipment for firefighters**

Firefighters should wear full protective clothing including self contained breathing apparatus.

**Hazardous combustion products**

May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Ammonia. Hydrogen chloride.

**Explosion data****Sensitivity to mechanical impact**

Not available

**Sensitivity to static discharge**

Not available

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## 6. Accidental Release Measures

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**Personal precautions**

Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

**Environmental precautions**

Do not discharge into lakes, streams, ponds or public waters.

**Methods for containment**

Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.

**Methods for cleaning up**

Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills to original containers for re-use.

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## 7. Handling and Storage

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**Handling**

Use good industrial hygiene practices in handling this material.

Do not get in eyes, on skin or on clothing.

Use only with adequate ventilation.

Avoid breathing vapors or mists of this product.

Keep container tightly closed.

Wash thoroughly after handling.

**Storage**

Keep out of the reach of children. Store in a closed container away from incompatible materials.

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## 8. Exposure Controls / Personal Protection

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### Exposure limits

Ingredient(s)	Exposure Limits
Ethoxylated aliphatic amines	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> Not established
Hydrogen chloride	<b>ACGIH-TLV</b> Ceiling: 2 ppm <b>OSHA-PEL</b> Ceiling: 5 ppm
Methyl salicylate	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> Not established

### Engineering controls

General ventilation normally adequate.

### Personal protective equipment

#### Eye / face protection

Wear chemical goggles.

#### Hand protection

Rubber gloves. Confirm with a reputable supplier first.

#### Skin and body protection

As required by employer code.

#### Respiratory protection

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

#### General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

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## 9. Physical and Chemical Properties

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Appearance	Clear
Color	Blue
Form	Liquid
Odor	Wintergreen
Odor threshold	Not available
Physical state	Liquid
pH	< 1
Melting point	Not available
Freezing point	Not available
Boiling point	Not available
Pour point	Not available
Evaporation rate	Not available
Flash point	Not available
Auto-ignition temperature	Not available
Flammability limits in air, lower, % by volume	Not available
Flammability limits in air, upper, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	1.04
Octanol/water coefficient	Not available
Viscosity	100 - 220 cPs
Percent volatile	Not available

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## 10. Stability and Reactivity

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<b>Reactivity</b>	Reacts vigorously with alkaline material. This product may react with reducing agents.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	Do not mix with other chemicals.
<b>Incompatible materials</b>	Bases. Reducing agents.
<b>Hazardous decomposition products</b>	May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Ammonia. Hydrogen chloride.

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## 11. Toxicological Information

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### Component analysis - LC50

Ingredient(s)	LC50
Ethoxylated aliphatic amines	Not available
Hydrogen chloride	554 ppm mouse
Methyl salicylate	Not available

### Component analysis - Oral LD50

Ingredient(s)	LD50
Ethoxylated aliphatic amines	620 mg/kg rat
Hydrogen chloride	900 mg/kg rabbit; 700 mg/kg rat
Methyl salicylate	887 mg/kg rat; 1110 mg/kg mouse; 2100 mg/kg dog; 1300 mg/kg rabbit; 700 mg/kg guinea pig

### Effects of acute exposure

<b>Eye</b>	Causes chemical burns. May cause blindness.
<b>Skin</b>	Causes chemical burns.
<b>Inhalation</b>	May cause respiratory tract irritation or chemical burns.
<b>Ingestion</b>	Harmful if swallowed. May cause chemical burns to mouth, throat and stomach.
<b>Sensitization</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Chronic effects</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Carcinogenicity</b>	Non-hazardous by WHMIS/OSHA criteria.

#### ACGIH - Threshold Limit Values - Carcinogens

Hydrogen chloride 7647-01-0 A4 - Not Classifiable as a Human Carcinogen

#### IARC - Group 3 (Not Classifiable)

Hydrogen chloride 7647-01-0 Monograph 54 [1992]

<b>Mutagenicity</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Reproductive effects</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Teratogenicity</b>	Contains a potential teratogen per Canadian WHMIS criteria.
<b>Name of Toxicologically Synergistic Products</b>	Not available

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## 12. Ecological Information

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<b>Ecotoxicity</b>	See below
<b>Ecotoxicity - Freshwater Fish - Acute Toxicity Data</b>	
Hydrogen chloride 7647-01-0	96 Hr LC50 Gambusia affinis: 282 mg/L [static]
<b>Ecotoxicity - Water Flea - Acute Toxicity Data</b>	
Methyl salicylate 119-36-8	24 Hr EC50 Daphnia magna: 50 mg/L
<b>Persistence / degradability</b>	Not available
<b>Bioaccumulation / accumulation</b>	Not available
<b>Mobility in environmental media</b>	Not available
<b>Environmental effects</b>	Not available
<b>Aquatic toxicity</b>	Not available
<b>Partition coefficient</b>	Not available

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Chemical fate information	Not available
Other adverse effects	Not available

### 13. Disposal Considerations

Disposal instructions	Review federal, state/provincial, and local government requirements prior to disposal.
Waste from residues / unused products	Not available
Contaminated packaging	Not available

### 14. Transport Information

#### U.S. Department of Transportation (DOT)

**Basic shipping requirements:**

**Proper shipping name** Corrosive liquids, n.o.s. (HYDROGEN CHLORIDE)

**Hazard class** 8  
**UN number** UN1760  
**Packing group** III

**Additional information:**

**Special provisions** IB3, T7, TP1, TP28  
**Packaging exceptions** 154  
**ERG number** 154



#### Transportation of Dangerous Goods (TDG - Canada)

**Basic shipping requirements:**

**Proper shipping name** Corrosive liquid, n.o.s. (HYDROGEN CHLORIDE)

**Hazard class** 8  
**UN number** 1760  
**Packing group** III



### 15. Regulatory Information

**Canadian federal regulations** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**Canada - WHMIS - Ingredient Disclosure List**

Hydrogen chloride	7647-01-0	1 %
Methyl salicylate	119-36-8	0.1 %

**WHMIS status** Controlled  
**WHMIS classification** Class D - Division 2A, Class E - Corrosive Material  
**WHMIS labeling**



#### Occupational Safety and Health Administration (OSHA)

**29 CFR 1910.1200 hazardous chemical** Yes

**US Federal regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities**

Hydrogen chloride 7647-01-0 5000 Lb final RQ; 2270 kg final RQ

**U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs**

Hydrogen chloride 7647-01-0 5000 Lb EPCRA RQ (gas only)

**U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs**

Hydrogen chloride 7647-01-0 500 Lb TPQ (gas only)

**U.S. - CERCLA/SARA - Section 313 - Emission Reporting**

Hydrogen chloride 7647-01-0 1.0 % de minimis concentration (acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size)

**U.S. - CWA (Clean Water Act) - Hazardous Substances**

Hydrogen chloride 7647-01-0 Present

**CERCLA (Superfund) reportable quantity**

Hydrogen chloride: 5000.0000

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**  
 Immediate Hazard - Yes  
 Delayed Hazard - Yes  
 Fire Hazard - No  
 Pressure Hazard - No  
 Reactivity Hazard - No

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** Yes

**Clean Air Act (CAA)** Not available

**Clean Water Act (CWA)** Hazardous substance

**State regulations** This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances**

Hydrogen chloride 7647-01-0 Present

**U.S. - Illinois - Toxic Air Contaminants**

Hydrogen chloride 7647-01-0 Present (aerosol)

**U.S. - Louisiana - Reportable Quantity List for Pollutants**

Hydrogen chloride 7647-01-0 5000 Lb final RQ; 2270 kg final RQ

**U.S. - Massachusetts - Right To Know List**

Hydrogen chloride 7647-01-0 Extraordinarily hazardous

**U.S. - Minnesota - Hazardous Substance List**

Hydrogen chloride 7647-01-0 Present

**U.S. - New Jersey - Right to Know Hazardous Substance List**

Hydrogen chloride 7647-01-0 sn 1012

**U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances**

Hydrogen chloride 7647-01-0 5000 Lb RQ (air); 100 lb RQ (land/water)

**U.S. - North Carolina - Control of Toxic Air Pollutants**

Hydrogen chloride 7647-01-0 0.7 mg/m3 (acute irritants)

**U.S. - Ohio - Extremely Hazardous Substances - Threshold Quantities**

Hydrogen chloride 7647-01-0 500 Lb TQ (gas only)

**U.S. - Pennsylvania - RTK (Right to Know) List**

Hydrogen chloride 7647-01-0 Environmental hazard

Methyl salicylate 119-36-8 Present

**U.S. - Rhode Island - Hazardous Substance List**

Hydrogen chloride 7647-01-0 Toxic; Flammable

Methyl salicylate 119-36-8 Flammable

**Inventory name**

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

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## 16. Other Information

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<b>Disclaimer</b>	The data contained in this material safety data sheet was obtained from sources that were technically accurate, reliable, and state of the art when this document was prepared. If data was unavailable to complete certain sections, the absence of that data is identified in this document. Because the supplier cannot know the exact circumstances during actual use of this product, other hazards, exposure scenarios, disposal considerations, and regulations may apply and it is the responsibility of the user to read and understand the product label and this document before use. Do not use the product for purposes other than those stated in Section 1.
<b>Issue date</b>	11-Jun-2012
<b>Effective date</b>	15-Sep-2012
<b>Expiry date</b>	15-Sep-2015
<b>Prepared by</b>	Dell Tech Laboratories Ltd. (519) 858-5021
<b>Other information</b>	For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.