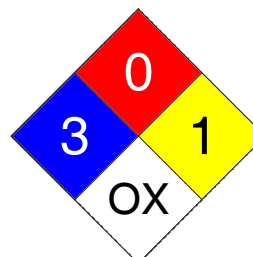


## 1. Product and Company Identification

**Product Name** Filtermate SaniWell Well Sanitizer Kit (Pellets and Granules)  
**CAS #** Mixture  
**Product use** Well sanitizer  
**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<br>HMIS/NFPA |   |
|---------------------|---|
| Severe              | 4 |
| Serious             | 3 |
| Moderate            | 2 |
| Slight              | 1 |
| Minimal             | 0 |

|                     |     |
|---------------------|-----|
| Health              | / 3 |
| Flammability        | 0   |
| Physical Hazard     | 1   |
| Personal Protection | B   |



## 2. Hazards Identification

**Emergency overview** DANGER -- CORROSIVE  
Oxidizing material.

**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** Dust extremely irritating to respiratory tract.

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

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

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

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

## 3. Composition / Information on Ingredients

| Ingredient(s)        | CAS #      | Percent  |
|----------------------|------------|----------|
| Calcium hypochlorite | 7778-54-3  | 60 - 100 |
| Calcium chlorate     | 10137-74-3 | 1 - 5    |
| Calcium hydroxide    | 1305-62-0  | 1 - 5    |

## 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** Brush away excess of dry material. Immediately flush with cool water for 15 minutes. Obtain medical attention if irritation persists. Wash contaminated clothing well before reuse or discard.

**Inhalation** If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention. If breathing has stopped, trained personnel should administer CPR immediately.

**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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|   |   |
|---|---|
| <b>Flammable properties</b>                       | Not flammable by WHMIS/OSHA criteria.   |
| <b>Extinguishing media</b>                        |   |
| <b>Suitable extinguishing media</b>               | Water spray, fog (flooding amounts).  |
| <b>Unsuitable extinguishing media</b>             | DO NOT use dry chemical fire extinguishing agents containing ammonium compounds (such as some A:B:C agents). An explosive compound can be formed. |
| <b>Protection of firefighters</b>                 |   |
| <b>Specific hazards arising from the chemical</b> | Decomposition releases oxygen which may intensify fire.   |
| <b>Protective equipment for firefighters</b>      | Firefighters should wear full protective clothing including self contained breathing apparatus.   |
| <b>Hazardous combustion products</b>              | May include and are not limited to: Hydrogen chloride. Chlorine gas. Oxygen. Calcium oxide  |
| <b>Explosion data</b>                             |   |
| <b>Sensitivity to mechanical impact</b>           | Not available   |
| <b>Sensitivity to static discharge</b>            | Not available   |

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## 6. Accidental Release Measures

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|                                |  |
|--------------------------------|--|
| <b>Personal precautions</b>    | 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.  |
| <b>Methods for containment</b> | Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Prevent entry into waterways, sewers, basements or confined areas. Use water spray to reduce vapors or divert vapor cloud drift.   |
| <b>Methods for cleaning up</b> | Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Large Spills: Wet down with water and dike for later disposal. After removal flush contaminated area thoroughly with water. |

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## 7. Handling and Storage

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|                 |   |
|-----------------|---|
| <b>Handling</b> | Use good industrial hygiene practices in handling this material. Do not get this material in your eyes, on your skin, or on your clothing.                  |
| <b>Storage</b>  | Keep out of reach of children. Store in a closed container away from incompatible materials. Keep away from heat, open flames or other sources of ignition. |

## 8. Exposure Controls / Personal Protection

### Exposure limits

| Ingredient(s)        | Exposure Limits  |
|----------------------|--|
| Calcium chlorate     | <b>ACGIH-TLV</b><br>Not established<br><b>OSHA-PEL</b><br>Not established                    |
| Calcium hydroxide    | <b>ACGIH-TLV</b><br>TWA: 5 mg/m <sup>3</sup><br><b>OSHA-PEL</b><br>TWA: 15 mg/m <sup>3</sup> |
| Calcium hypochlorite | <b>ACGIH-TLV</b><br>TWA: 10 mg/m <sup>3</sup><br><b>OSHA-PEL</b><br>Not established          |

### Engineering controls

Use only under good ventilation conditions or with respiratory protection.

### Personal protective equipment

#### Eye / face protection

Chemical splash goggles.

#### Hand protection

Impervious gloves. Confirm with reputable supplier first.

#### Skin and body protection

As required by employer code. Rubber apron recommended.

#### 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.

## 9. Physical and Chemical Properties

|   |                     |
|---|---------------------|
| <b>Appearance</b>                                     | Pellets or Granules |
| <b>Color</b>  | Off white           |
| <b>Form</b>   | Solid               |
| <b>Odor</b>   | strong chlorine     |
| <b>Odor threshold</b>                                 | Not available       |
| <b>Physical state</b>                                 | Solid               |
| <b>pH</b>   | Not available       |
| <b>Melting point</b>                                  | Not applicable      |
| <b>Freezing point</b>                                 | Not available       |
| <b>Boiling point</b>                                  | Decomposes at 180°C |
| <b>Pour point</b>                                     | Not available       |
| <b>Evaporation rate</b>                               | Not applicable      |
| <b>Flash point</b>                                    | Not available       |
| <b>Auto-ignition temperature</b>                      | Not available       |
| <b>Flammability limits in air, lower, % by volume</b> | Not applicable      |
| <b>Flammability limits in air, upper, % by volume</b> | Not applicable      |
| <b>Vapor pressure</b>                                 | Not applicable      |
| <b>Vapor density</b>                                  | Not applicable      |
| <b>Specific gravity</b>                               | Not applicable      |
| <b>Octanol/water coefficient</b>                      | Not available       |
| <b>Solubility (H<sub>2</sub>O)</b>                    | 217 G/L @27°C       |
| <b>Percent volatile</b>                               | Not available       |

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## 10. Stability and Reactivity

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|   |   |
|---|---|
| <b>Chemical stability</b>                 | Stable, however, may decompose if heated.   |
| <b>Conditions to avoid</b>                | Contamination. Heat, open flames, static discharge, sparks and other ignition sources. Do not mix with other chemicals. |
| <b>Incompatible materials</b>             | Acids. Oxidizers. Reducing agents. Combustible materials. Organic materials.  |
| <b>Hazardous decomposition products</b>   | May include and are not limited to: Hydrogen chloride. Chlorine gas. Oxygen.  |
| <b>Possibility of hazardous reactions</b> | Hazardous polymerization does not occur.  |

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## 11. Toxicological Information

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### Component analysis - LC50

| Ingredient(s)        | LC50          |
|----------------------|---------------|
| Calcium chlorate     | Not available |
| Calcium hydroxide    | Not available |
| Calcium hypochlorite | Not available |

### Component analysis - Oral LD50

| Ingredient(s)        | LD50           |
|----------------------|----------------|
| Calcium chlorate     | 4500 mg/kg rat |
| Calcium hydroxide    | 7340 mg/kg rat |
| Calcium hypochlorite | 850 mg/kg rat  |

### Effects of acute exposure

|  |  |
|--|--|
| <b>Eye</b>                               | Causes chemical burns. May cause blindness.                                  |
| <b>Skin</b>                              | Causes chemical burns.   |
| <b>Inhalation</b>                        | Dust extremely irritating to respiratory tract.                              |
| <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>                   | Not classified or listed by IARC, NTP, OSHA and ACGIH.                       |
| <b>IARC - Group 3 (Not Classifiable)</b> |  |
| Calcium hypochlorite                     | 7778-54-3 Monograph 52 [1991] (listed under Hypochlorite salts)              |
| <b>Mutagenicity</b>                      | Non-hazardous by WHMIS/OSHA criteria.  |
| <b>Reproductive effects</b>              | Non-hazardous by WHMIS/OSHA criteria.  |
| <b>Teratogenicity</b>                    | Non-hazardous by WHMIS/OSHA criteria.  |
| <b>Synergistic Materials</b>             | Not available  |

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## 12. Ecological Information

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**Ecotoxicity** See below

### Ecotoxicity - Freshwater Fish - Acute Toxicity Data

|                      |           |  |
|----------------------|-----------|--|
| Calcium hydroxide    | 1305-62-0 | 96 Hr LC50 Gambusia affinis: 160 mg/L [static]   |
| Calcium hypochlorite | 7778-54-3 | 24 Hr LC50 Morone saxatilis: 0.5 mg/L [static] (70% hypochlorite); 96 Hr LC50 Lepomis macrochirus: 0.049 - 0.16 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 0.4 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 0.054-0.06 mg/L [semi-static]; 96 Hr LC50 Cyprinus carpio: 0.185-0.26 mg/L [semi-static]; 96 Hr LC50 Oncorhynchus mykiss: 0.055-0.1 mg/L [semi-static]; 96 Hr LC50 Oncorhynchus mykiss: 0.13-0.2 mg/L [static]; 96 Hr LC50 Pimephales promelas: 0.561-1.41 mg/L [static] |

|  |  |
|--|--|
| <b>Environmental effects</b>           | Not available  |
| <b>Aquatic toxicity</b>                | This product is toxic to fish and aquatic organisms. |
| <b>Persistence / degradability</b>     | Not available  |
| <b>Bioaccumulation / accumulation</b>  | Not available  |
| <b>Partition coefficient</b>           | Not available  |
| <b>Mobility in environmental media</b> | Not available  |
| <b>Chemical fate information</b>       | Not available  |
| <b>Other adverse effects</b>           | Not available  |

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## 13. Disposal Considerations

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

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## 14. Transport Information

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

**Basic shipping requirements:**

|                                |                                   |
|--------------------------------|-----------------------------------|
| <b>Proper shipping name</b>    | Calcium hypochlorite, hydrated    |
| <b>Hazard class</b>            | 5.1                               |
| <b>UN number</b>               | UN2880                            |
| <b>Packing group</b>           | II                                |
| <b>Additional information:</b> |                                   |
| <b>Special provisions</b>      | 165, 166, IB8, IP2, IP4, IP13, W9 |
| <b>Packaging exceptions</b>    | 152                               |
| <b>ERG number</b>              | 140                               |



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

**Basic shipping requirements:**

|                             |                                |
|-----------------------------|--------------------------------|
| <b>Proper shipping name</b> | CALCIUM HYPOCHLORITE, HYDRATED |
| <b>Hazard class</b>         | 5.1                            |
| <b>UN number</b>            | UN2880                         |
| <b>Packing group</b>        | II                             |



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## 15. Regulatory Information

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**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**

|                   |           |     |
|-------------------|-----------|-----|
| Calcium hydroxide | 1305-62-0 | 1 % |
|-------------------|-----------|-----|

**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**

|                      |           |                                  |
|----------------------|-----------|----------------------------------|
| Calcium hypochlorite | 7778-54-3 | 10 Lb final RQ; 4.54 kg final RQ |
|----------------------|-----------|----------------------------------|

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

|                      |           |         |
|----------------------|-----------|---------|
| Calcium hypochlorite | 7778-54-3 | Present |
|----------------------|-----------|---------|

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

**29 CFR 1910.1200 hazardous chemical** Yes

**CERCLA (Superfund) reportable quantity**

Calcium hypochlorite: 10.0000

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

|  |  |
|--|--|
| <b>Hazard categories</b>                         | Immediate Hazard - Yes<br>Delayed Hazard - No<br>Fire Hazard - No<br>Pressure Hazard - No<br>Reactivity Hazard - Yes |
| <b>Section 302 extremely hazardous substance</b> | No   |
| <b>Section 311 hazardous chemical</b>            | Yes  |
| <b>Clean Air Act (CAA)</b>                       | Not available  |
| <b>Clean Water Act (CWA)</b>                     | Not available  |
| <b>WHMIS status</b>                              | Controlled   |
| <b>WHMIS classification</b>                      | Class C - Oxidizing Material, Class E - Corrosive Material   |
| <b>WHMIS labeling</b>                            |  |



**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

|                      |           |         |
|----------------------|-----------|---------|
| Calcium hydroxide    | 1305-62-0 | Present |
| Calcium hypochlorite | 7778-54-3 | Present |

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

|                      |           |                                  |
|----------------------|-----------|----------------------------------|
| Calcium hypochlorite | 7778-54-3 | 10 Lb final RQ; 4.54 kg final RQ |
|----------------------|-----------|----------------------------------|

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

|                      |            |         |
|----------------------|------------|---------|
| Calcium chlorate     | 10137-74-3 | Present |
| Calcium hydroxide    | 1305-62-0  | Present |
| Calcium hypochlorite | 7778-54-3  | Present |

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

|                   |           |         |
|-------------------|-----------|---------|
| Calcium hydroxide | 1305-62-0 | Present |
|-------------------|-----------|---------|

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

|                      |            |         |
|----------------------|------------|---------|
| Calcium chlorate     | 10137-74-3 | sn 0313 |
| Calcium hydroxide    | 1305-62-0  | sn 0322 |
| Calcium hypochlorite | 7778-54-3  | sn 0323 |

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

|                      |           |                                       |
|----------------------|-----------|---------------------------------------|
| Calcium hypochlorite | 7778-54-3 | 10 Lb RQ (air); 10 lb RQ (land/water) |
|----------------------|-----------|---------------------------------------|

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

|                      |            |                      |
|----------------------|------------|----------------------|
| Calcium chlorate     | 10137-74-3 | Present              |
| Calcium hydroxide    | 1305-62-0  | Present              |
| Calcium hypochlorite | 7778-54-3  | Environmental hazard |

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

|                      |            |           |
|----------------------|------------|-----------|
| Calcium chlorate     | 10137-74-3 | Flammable |
| Calcium hydroxide    | 1305-62-0  | Toxic     |
| Calcium hypochlorite | 7778-54-3  | Flammable |

## Inventory name

| Country(s) or region        | Inventory name                                | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| Canada                      | Domestic Substances List (DSL)                | Yes                    |
| Canada                      | Non-Domestic Substances List (NDSL)           | No                     |
| 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)

## 16. Other Information

### Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

### Issue date

01-Sep-2010

**Effective date** 01-Sep-2010  
**Expiry date** 01-Sep-2013  
**Prepared by** Dell Tech Laboratories Ltd. (519) 858-5021  
**Other information** For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.