SAFETY DATA SHEET

1. Product and Company Identification

<table>
<thead>
<tr>
<th>Product identifier</th>
<th>Glisten Detergent Booster &amp; Freshener</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other means of identification</td>
<td>Not available</td>
</tr>
<tr>
<td>Recommended use</td>
<td>Hard Water Spot Remover</td>
</tr>
<tr>
<td>Recommended restrictions</td>
<td>None known.</td>
</tr>
</tbody>
</table>

Manufacturer/Importer/Supplier/Distributor information

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Iron Out dba Summit Brands</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>7201 Engle Road, Fort Wayne, IN 46804-5875, United States</td>
</tr>
<tr>
<td>Telephone</td>
<td>260-483-2519</td>
</tr>
<tr>
<td>E-mail</td>
<td>Not available.</td>
</tr>
<tr>
<td>Emergency phone number</td>
<td>1-800-424-9300 (CHEMTREC)</td>
</tr>
</tbody>
</table>

2. Hazards Identification

<table>
<thead>
<tr>
<th>Physical hazards</th>
<th>Corrosive to metals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health hazards</td>
<td>Skin corrosion/irritation</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>Not classified.</td>
</tr>
<tr>
<td>OSHA defined hazards</td>
<td>Not classified.</td>
</tr>
</tbody>
</table>

Label elements

Signal word

<table>
<thead>
<tr>
<th>Hazard statement</th>
<th>May be corrosive to metals. Causes skin irritation. Causes serious eye irritation.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Precautionary statement</td>
<td></td>
</tr>
<tr>
<td>Prevention</td>
<td>Keep only in original container. Wash thoroughly after handling. Wear protective gloves. Wear eye protection/face protection.</td>
</tr>
<tr>
<td>Response</td>
<td>Absorb spillage to prevent material damage. If on skin: Wash with plenty of water. Specific treatment (see information on this label). If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.</td>
</tr>
<tr>
<td>Storage</td>
<td>Store in corrosive resistant container with a resistant inner liner.</td>
</tr>
<tr>
<td>Disposal</td>
<td>Dispose of waste and residues in accordance with local authority requirements.</td>
</tr>
<tr>
<td>Hazard(s) not otherwise classified (HNOC)</td>
<td>None known.</td>
</tr>
<tr>
<td>Supplemental information</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Mixtures</th>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Citric Acid</td>
<td>77-92-9</td>
<td>60-100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Benzoic acid, phenylmethyl ester</td>
<td>120-51-4</td>
<td>1-5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amorphous silica, precipitated</td>
<td>112926-00-8</td>
<td>&lt;1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Silica</td>
<td>7631-86-9</td>
<td>&lt;1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Composition comments

US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.
4. First Aid Measures

**Inhalation**
If inhaled: Remove person to fresh air and keep comfortable for breathing. If symptoms persist, obtain medical attention.

**Skin contact**
If on skin: Wash with plenty of water. Specific treatment (see information on this label). If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

**Eye contact**
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Ingestion**
If swallowed: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

**Most important symptoms/effects, acute and delayed**
Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

**Indication of immediate medical attention and special treatment needed**
Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

**General information**
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, skin and clothing. Wear rubber gloves and chemical splash goggles. Keep out of reach of children.

5. Fire Fighting Measures

**Suitable extinguishing media**
Dry chemical, CO2, water spray or regular foam.

**Unsuitable extinguishing media**
Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical**
Firefighters should wear a self-contained breathing apparatus.

**Special protective equipment and precautions for firefighters**
Firefighters should wear full protective clothing including self contained breathing apparatus.

**Fire fighting equipment/instructions**
In the event of fire, cool tanks with water spray. Cool containers with flooding quantities of water until well after fire is out.

**Specific methods**
Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards**
Firefighters should wear a self-contained breathing apparatus.

6. Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures**
Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

**Methods and materials for containment and cleaning up**
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. Prevent entry into waterways, sewers, basements or confined areas. For waste disposal, see section 13 of the SDS.

**Environmental precautions**
Avoid discharge into drains, water courses or onto the ground. Do not discharge into lakes, streams, ponds or public waters.

7. Handling and Storage

**Precautions for safe handling**
DANGER -- CORROSIVE
Avoid dust formation. Use only with adequate ventilation. Do not breathe dust. Do not get in eyes, on skin or on clothing. Wear appropriate personal protective equipment. Avoid prolonged exposure. Wash thoroughly after handling. Keep container tightly closed.

**Conditions for safe storage, including any incompatibilities**
Store in corrosive resistant container with a resistant inner liner. Store away from incompatible materials (see Section 10 of the SDS). Store in a cool, dry place out of direct sunlight. Keep only in the original container. Store in a closed container. Keep out of the reach of children.

8. Exposure Controls/Personal Protection

**Occupational exposure limits**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amorphous silica, precipitated (CAS 112926-00-8)</td>
<td>TWA</td>
<td>0.8 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20 mppcf</td>
</tr>
</tbody>
</table>

#21163
Page: 2 of 8
Issue date 07-February-2017
US. OSHA Table Z-3 (29 CFR 1910.1000)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica (CAS 7631-86-9)</td>
<td>TWA</td>
<td>0.8 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20 mppcf</td>
</tr>
</tbody>
</table>

US. NIOSH: Pocket Guide to Chemical Hazards

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amorphous silica, precipitated (CAS 112926-00-8)</td>
<td>TWA</td>
<td>6 mg/m³</td>
</tr>
<tr>
<td>Silica (CAS 7631-86-9)</td>
<td>TWA</td>
<td>6 mg/m³</td>
</tr>
</tbody>
</table>

Biological limit values
No biological exposure limits noted for the ingredient(s).

Exposure guidelines
Chemicals listed in section 3 that are not listed here do not have established limit values for ACGIH or OSHA PEL.

Appropriate engineering controls
Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

- **Eye/face protection**: Safety glasses or goggles.
- **Skin protection**: Rubber gloves. Confirm with a reputable supplier first.
- **Hand protection**: As required by employer code.
- **Respiratory protection**: Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
- **Thermal hazards**: Not applicable.

General hygiene considerations
Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and Chemical Properties

- **Appearance**: Powder
- **Physical state**: Solid.
- **Form**: Powder
- **Color**: Yellow.
- **Odor**: Lemon
- **Odor threshold**: Not available.
- **pH**: 2.0 - 2.3
- **Melting point/freezing point**: Not available.
- **Initial boiling point and boiling range**: Not available.
- **Pour point**: Not available.
- **Specific gravity**: Not available.
- **Partition coefficient (n-octanol/water)**: Not available.
- **Flash point**: Not available.
- **Evaporation rate**: Not available.
- **Flammability (solid, gas)**: Not applicable.
- **Upper/lower flammability or explosive limits**
  - Flammability limit - lower (%): Not available.
  - Flammability limit - upper (%): Not available.
  - Explosive limit - lower (%): Not available.
  - Explosive limit - upper (%): Not available.
  - Vapor pressure: Not available.
  - Vapor density: Not available.
10. Stability and Reactivity

Reactivity
Reacts vigorously with alkaline material.

Possibility of hazardous reactions
Hazardous polymerization does not occur.

Chemical stability
Stable under recommended storage conditions.

Conditions to avoid
Do not mix with other chemicals.

Incompatible materials

Hazardous decomposition products
May include and are not limited to: Oxides of carbon.

11. Toxicological Information

Information on likely routes of exposure

Inhalation
No adverse effects due to inhalation are expected.

Skin contact
Causes skin irritation.

Eye contact
Causes serious eye irritation.

Ingestion
Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics
Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity
Eye irritation Skin irritation

Components

<table>
<thead>
<tr>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amorphous silica, precipitated (CAS 112926-00-8)</td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
</tr>
<tr>
<td>&gt;= 2000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Inhalation</td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Rat</td>
</tr>
<tr>
<td>&gt; 2 mg/L</td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Mouse</td>
</tr>
<tr>
<td>&gt; 15000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Rat</td>
<td></td>
</tr>
<tr>
<td>&gt; 22500 mg/kg</td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td></td>
</tr>
<tr>
<td>&gt; 31600 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

Benzoic acid, phenylmethyl ester (CAS 120-51-4)

Acute
Dermal
LD50
Rabbit
4000 mg/kg

LC50
Not available.

Citric Acid (CAS 77-92-9)

Acute
Dermal
LD50
Rat
> 2000 mg/kg, 24 Hours, ECHA

Inhalation
LC50
Not available

Oral
LD50
Mouse
5790 mg/kg, ECHA

5400 mg/kg

#21163 Issue date 07-February-2017
### Components Test Results

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica (CAS 7631-86-9)</td>
<td>Rat</td>
<td>11700 mg/kg, ECHA</td>
</tr>
</tbody>
</table>

#### Acute

- **Dermal**
  - LD50 Rabbit: > 2000 mg/kg

#### Inhalation

- LC50 Not available

#### Oral

- LD50 Mouse: > 15000 mg/kg

- Rat: > 5000 mg/kg

### Skin corrosion/irritation

- Causes skin irritation.
  - Exposure minutes: Not available.
  - Erythema value: Not available.
  - Oedema value: Not available.

### Serious eye damage/eye irritation

- Causes serious eye irritation.
  - Corneal opacity value: Not available.
  - Iris lesion value: Not available.
  - Conjunctival reddening value: Not available.
  - Conjunctival oedema value: Not available.
  - Recover days: Not available.

### Respiratory or skin sensitization

- Respiratory sensitization: Not available.
- Skin sensitization: Prolonged or repeated exposure to dilutions can cause drying, defatting and dermatitis.

### Germ cell mutagenicity

- Not classified.

### Carcinogenicity

- Not classified or listed by IARC, NTP, OSHA and ACGIH.

- **IARC Monographs. Overall Evaluation of Carcinogenicity**
  - Amorphous silica, precipitated (CAS 112926-00-8) Volume 68 - 3 Not classifiable as to carcinogenicity to humans.
  - Silica (CAS 7631-86-9) Volume 68 - 3 Not classifiable as to carcinogenicity to humans.

- **US. National Toxicology Program (NTP) Report on Carcinogens**
  - Not listed.

  - Not regulated.

### Reproductive toxicity

- Not classified.

### Specific target organ toxicity - single exposure

- Not classified.

### Specific target organ toxicity - repeated exposure

- Not classified.

### Aspiration hazard

- Not available.

### Chronic effects

- Prolonged inhalation may be harmful.

### Further information

- Not available.

### 12. Ecological Information

#### Ecotoxicity

See below

#### Ecotoxicological data

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Citric Acid (CAS 77-92-9)</td>
<td>Daphnia magna</td>
<td>120 mg/L, 72 hr</td>
</tr>
</tbody>
</table>

- **Acute Crustacea**
  - EC50: 120 mg/L, 72 hr

- **Aquatic Acute**
  - Fish LC50: Bluegill (Lepomis macrochirus) 1516 mg/L, 96 hr
### Components

<table>
<thead>
<tr>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica (CAS 7631-86-9)</td>
<td></td>
</tr>
<tr>
<td>Algae IC50</td>
<td>440 mg/L, 72 Hours</td>
</tr>
<tr>
<td>Crustacea EC50</td>
<td>7600 mg/L, 48 Hours</td>
</tr>
</tbody>
</table>

### Persistence and degradability
No data is available on the degradability of this product.

### Bioaccumulative potential
Not available.

#### Partition coefficient n-octanol / water (log Kow)
- Glisten Detergent Booster & Freshener: -1.72, @20°C
- Benzoic acid, phenylmethyl ester: 3.97

### Mobility in soil
No data available.

### Mobility in general
Not available.

### Other adverse effects
No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

---

### 13. Disposal Considerations

#### Disposal instructions
Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Local disposal regulations
Dispose in accordance with all applicable regulations.

#### Hazardous waste code
The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

#### Waste from residues / unused products
Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

#### Contaminated packaging
Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

---

### 14. Transport Information

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

<table>
<thead>
<tr>
<th>Basic shipping requirements:</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN number</td>
</tr>
<tr>
<td>Proper shipping name</td>
</tr>
<tr>
<td>Technical name</td>
</tr>
<tr>
<td>Hazard class</td>
</tr>
<tr>
<td>Packing group</td>
</tr>
<tr>
<td>Special provisions</td>
</tr>
<tr>
<td>Packaging exceptions</td>
</tr>
<tr>
<td>Packaging non bulk</td>
</tr>
<tr>
<td>Packaging bulk</td>
</tr>
</tbody>
</table>

**DOT**

---

### 15. Regulatory Information

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

- **TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**
  - Not regulated.
- **CERCLA Hazardous Substance List (40 CFR 302.4)**
  - Not listed.
  - Not regulated.
Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

SARA 302 Extremely hazardous substance
No
SARA 311/312 Hazardous chemical
No
SARA 313 (TRI reporting)
Not regulated.

Other federal regulations
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.
Safe Drinking Water Act (SDWA)
Not regulated.
Food and Drug Administration (FDA)
Total food additive
GRAS food additive
US state regulations
This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US - Minnesota Haz Subs: Listed substance
Amorphous silica, precipitated (CAS 112926-00-8) PRECIPITATED SILICA (SEE SILICA - AMORPHOUS)
Silica (CAS 7631-86-9)

US - New Jersey RTK - Substances: Listed substance
Amorphous silica, precipitated (CAS 112926-00-8)
Silica (CAS 7631-86-9)

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)
Not listed.

US. Massachusetts RTK - Substance List
Amorphous silica, precipitated (CAS 112926-00-8)
Silica (CAS 7631-86-9)

US. New Jersey Worker and Community Right-to-Know Act
Not regulated.

US. Pennsylvania RTK - Hazardous Substances
Silica (CAS 7631-86-9)

US. Pennsylvania Worker and Community Right-to-Know Law
Silica (CAS 7631-86-9)

US. Rhode Island RTK
Not regulated.

US. California Proposition 65
Not listed.

Country(s) or region  Inventory name  On inventory (yes/no)*
United States & Puerto Rico  Toxic Substances Control Act (TSCA) Inventory  Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

### 16. Other Information

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Severe</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Serious</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Moderate</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Slight</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Minimal</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

**Legend:**
- HEALTH
- FLAMMABILITY
- PHYSICAL HAZARD
- PERSONAL PROTECTION

#21163  Page: 7 of 8  Issue date 07-February-2017
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.

Issue date 07-February-2017
Revision date 07-February-2017
Version # 02
Further information For an updated SDS, please contact the supplier/manufacturer listed on the first page of the
document.
Other information Redbook revision # 8, 12/21/16
Prepared by Dell Tech Laboratories, Ltd. Phone: (519) 858-5021