1. Product and Company Identification

<table>
<thead>
<tr>
<th>Product identifier</th>
<th>Glisten Disposer Care®</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other means of identification</td>
<td>Glisten Disposer Care Bleach Alternative</td>
</tr>
</tbody>
</table>

Recommended use: Garbage disposal cleaner
Recommended restrictions: None known.
Manufacturer information: Iron Out dba Summit Brands
6714 Pointe Inverness Way
Suite 200
Fort Wayne, IN 46804-7935 US
Phone: 260-483-2519
Emergency Phone: 1-800-424-9300 (CHEMTREC)
Supplier: See above.

2. Hazards Identification

Physical hazards: Not classified.
Health hazards: Skin corrosion/irritation — Category 2
                     Serious eye damage/eye irritation — Category 2
Environmental hazards: Not classified.

WHMIS 2015 defined hazards: Not classified

Label elements

Signal word: Warning
Hazard statement: Causes skin irritation. Causes serious eye irritation.
Precautionary statement:
Response: IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical attention. Specific treatment (see information on this label). 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 attention.
Storage: Store away from incompatible materials.
Disposal: Dispose of container in accordance with local, regional, national and international regulations.

WHMIS 2015: Health Hazard(s) not otherwise classified (HHNOC): None known
WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC): None known
Hazard(s) not otherwise classified (HNOC): None known.
Supplemental information: None.

3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Mixture</th>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Malic Acid</td>
<td></td>
<td>6915-15-7</td>
<td>15-40*</td>
</tr>
<tr>
<td></td>
<td>Silane, dichlorodimethyl-, reaction products with silica</td>
<td></td>
<td>68611-44-9</td>
<td>0.1-1*</td>
</tr>
<tr>
<td></td>
<td>Sodium lauryl sulfate</td>
<td></td>
<td>151-21-3</td>
<td>7-13*</td>
</tr>
</tbody>
</table>
### 4. First Aid Measures

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

**Skin contact**

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical attention. Specific treatment (see information on this label). 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 attention.

**Ingestion**

Rinse mouth. 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.

**Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.**

### Most important symptoms/effects, acute and delayed

**Indication of immediate medical attention and special treatment needed**
Provide general supportive measures and treat symptomatically. 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 and skin. Keep out of reach of children.

### 5. Fire Fighting Measures

**Suitable extinguishing media**

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

**Specific hazards arising from the chemical**
During fire, gases hazardous to health may be formed.

**Special protective equipment and precautions for firefighters**
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Fire-fighting equipment/instructions**
Use water spray to cool unopened containers.

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

**General fire hazards**
No unusual fire or explosion hazards noted.

**Hazardous combustion products**
May include and are not limited to: Oxides of carbon. Oxides of sulfur.

### 6. Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures**
Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. 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**
Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

**Environmental precautions**
Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

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
Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. When using do not eat or drink.

Conditions for safe storage, including any incompatibilities
Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Keep out of 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>Silane, dichlorodimethyl-, reaction products with silica (CAS 68611-44-9)</td>
<td>TWA</td>
<td>0.8 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20 mppcf</td>
</tr>
</tbody>
</table>

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

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
Wear safety glasses with side shields (or goggles).

Skin protection
Hand protection
Impervious gloves. Confirm with reputable supplier first.

Other
Wear appropriate chemical resistant clothing. As required by employer code.

Respiratory protection
Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).

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. When using do not eat or drink.

9. Physical and Chemical Properties

Appearance
Powder.

Physical state
Solid.

Form
Solid.

Color
White / Light blue

Odor
Not available.

Odor threshold
Not available.

pH
5.48 - 6.32 (1%) @ 20°C

Melting point/freezing point
Not available.

Initial boiling point and boiling range
Not applicable

Pour point
Not available.

Specific gravity
Not available.

Partition coefficient
(n-octanol/water)
Not available.

Flash point
None

Evaporation rate
Not applicable

Flammability (solid, gas)
Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)
Not applicable

Flammability limit - upper (%)
Not applicable

Explosive limit - lower (%)
Not available.
Explosive limit - upper (%): Not available.
Vapor pressure: Not applicable
Vapor density: Not applicable
Relative density: Not available.
Solubility(ies): Complete
Auto-ignition temperature: Not applicable
Decomposition temperature: Not available.
Viscosity: Not available.

Other information:
Explosive properties: Not explosive.
Oxidizing properties: Not oxidizing.

10. Stability and Reactivity

Reactivity: This product may react with strong oxidizing agents.
Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.
Chemical stability: Material is stable under normal conditions.
Conditions to avoid: Do not mix with other chemicals.
Incompatible materials: Strong oxidizing agents.
Hazardous decomposition products: May include and are not limited to: Oxides of carbon. Oxides of sulfur.

11. Toxicological Information

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

Information on likely routes of exposure:
Ingestion: May cause stomach distress, nausea or vomiting.
Inhalation: Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).
Skin contact: Causes skin irritation.
Eye contact: Causes serious eye irritation.

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

Information on toxicological effects:
Acute toxicity:

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Malic Acid (CAS 6915-15-7)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
<td>&gt; 20000 mg/kg, 24 Hours, ECHA</td>
</tr>
<tr>
<td>Inhalation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Rat</td>
<td>&gt; 1.3 mg/L, 4 Hours, ECHA</td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Mouse</td>
<td>2660 mg/kg, ECHA</td>
</tr>
<tr>
<td></td>
<td>Rabbit</td>
<td>3000 mg/kg, ECHA</td>
</tr>
<tr>
<td></td>
<td>Rat</td>
<td>&gt; 3200 mg/kg, ECHA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10700 mg/kg, ECHA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9300 mg/kg, ECHA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3500 mg/kg, ECHA</td>
</tr>
<tr>
<td>Silane, dichlorodimethyl-, reaction products with silica (CAS 68611-44-9)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>Inhalation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Rat</td>
<td>&gt; 0.5 mg/l/4h, Evonik</td>
</tr>
<tr>
<td>Component</td>
<td>Species</td>
<td>Test Results</td>
</tr>
<tr>
<td>-----------</td>
<td>---------</td>
<td>--------------</td>
</tr>
<tr>
<td>Sodium lauryl sulfate (CAS 151-21-3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
<td>&gt; 2000 mg/kg, 24 Hours, ECHA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; 500 mg/kg, 24 Hours, ECHA</td>
</tr>
<tr>
<td></td>
<td>Rat</td>
<td>&gt; 2000 mg/kg, 24 Hours, ECHA</td>
</tr>
<tr>
<td><strong>Dermal</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
<td>&gt; 6300 mg/kg, ECHA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; 1500 mg/kg, ECHA</td>
</tr>
<tr>
<td></td>
<td>Rat</td>
<td>1427 mg/kg, ECHA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1288 mg/kg, HSDB</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1200 mg/kg, ECHA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>977 mg/kg, ECHA</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td><strong>Oral</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>&gt; 5000 mg/kg, ECHA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; 1500 mg/kg, ECHA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1427 mg/kg, ECHA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1288 mg/kg, HSDB</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1200 mg/kg, ECHA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>977 mg/kg, ECHA</td>
</tr>
</tbody>
</table>

Sulfonic acids, alkyl, sodium salts (CAS 68439-57-6)

<table>
<thead>
<tr>
<th>Component</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
<td>&gt; 6300 mg/kg, ECHA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; 1500 mg/kg, ECHA</td>
</tr>
<tr>
<td><strong>Dermal</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>2310 mg/kg, CCID</td>
</tr>
</tbody>
</table>

**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.
- **Iris lesion value** Not available.

**Respiratory or skin sensitization**
Not a respiratory sensitizer.

**Respiratory sensitization**
This product is not expected to cause skin sensitization.

**Skin sensitization**
This product is not expected to cause skin sensitization.

**Mutagenicity**
No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity**
See below.

Not listed.

**Reproductive toxicity**
This product is not expected to cause reproductive or developmental effects.

**Teratogenicity**
Not available.

**Specific target organ toxicity - single exposure**
Not classified.

**Specific target organ toxicity - repeated exposure**
Not classified.

**Aspiration hazard**
Not an aspiration hazard.
### 12. Ecological Information

#### Ecotoxicity

**Ecotoxicological data**

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium lauryl sulfate (CAS 151-21-3)</td>
<td>Algae</td>
<td>IC50 53 mg/L, 72 Hours</td>
</tr>
<tr>
<td></td>
<td>Crustacea</td>
<td>EC50 1.8 mg/L, 48 Hours</td>
</tr>
<tr>
<td></td>
<td>Fish</td>
<td>LC50 1.36 mg/L, 96 hours</td>
</tr>
<tr>
<td>Sulfonic acids, alkyl, sodium salts (CAS 68439-57-6)</td>
<td>Aquatic</td>
<td>EC50 4.14 - 4.95 mg/L, 48 hours</td>
</tr>
</tbody>
</table>

**Persistence and degradability**

No data is available on the degradability of this product.

**Bioaccumulative potential**

No data available.

**Mobility in soil**

Not 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. 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**

Dispose of in accordance with local regulations. 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**

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

### 14. Transport Information

**Transport of Dangerous Goods (TDG) Proof of Classification**

Classification Method: Classified as per Part 2, Sections 2.1 – 2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical name and the classification of the product will appear below.

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

Not regulated as dangerous goods.

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

Not regulated as dangerous goods.

### 15. Regulatory Information

**Canadian federal regulations**

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

**Export Control List (CEPA 1999, Schedule 3)**

Not listed.

**Greenhouse Gases**

Not listed.

**Precursor Control Regulations**

Not regulated.

**WHMIS 2015 Exemptions**

Not applicable

**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.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories
Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
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.
Clean Water Act (CWA) Section 112(r) (40 CFR 68.130)
See below

US state regulations
US - Texas Effects Screening Levels: Listed substance
Malic Acid (CAS 6915-15-7) Listed.
Silane, dichlorodimethyl-, reaction products with silica (CAS 68611-44-9) Listed.
Sodium lauryl sulfate (CAS 151-21-3) Listed.
Sulfonic acids, alkyl, sodium salts (CAS 68439-57-6) Listed.

US. Massachusetts RTK - Substance List
Not regulated.

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

US. Pennsylvania Worker and Community Right-to-Know Law
Not listed.

US. Rhode Island RTK
Not regulated.

US. California Proposition 65
Not Listed.

Inventory status
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

LEGEND

Severe 4
Serious 3
Moderate 2
Slight 1
Minimal 0

FLAMMABILITY 0

PHYSICAL HAZARD 0

PERSONAL PROTECTION X

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.

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For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.