

1. Product and Company Identification

| | | |
|--------------------------------------|--|--|
| Product identifier | Glisten Disposer Care® | |
| Other means of identification | Not available | |
| Recommended use | Garbage disposal cleaner | |
| Recommended restrictions | None known. | |
| 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) | |

2. Hazards Identification

| | | |
|------------------------------|-----------------------------------|------------|
| Physical hazards | Not classified. | |
| Health hazards | Skin corrosion/irritation | Category 2 |
| | Serious eye damage/eye irritation | Category 2 |
| | Sensitization, skin | Category 1 |
| Environmental hazards | Not classified. | |
| OSHA defined hazards | Not classified. | |

Label elements



Signal word Warning

Hazard statement Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.

Precautionary statement

Prevention Avoid breathing dust. Contaminated work clothing must not be allowed out of the workplace. Wash thoroughly after handling. Wear protective gloves. Wear eye/face protection.

Response 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.
If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see this label). Wash contaminated clothing before reuse.

Storage Store away from incompatible materials.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information Not applicable.

3. Composition/Information on Ingredients

Mixture

| Chemical name | Common name and synonyms | CAS number | % |
|-------------------------------------|--------------------------|--------------|-------|
| Sodium bicarbonate | | 144-55-8 | 30-60 |
| Malic Acid | | 6915-15-7 | 15-40 |
| Sodium lauryl sulfate | | 151-21-3 | 7-13 |
| Sulfonic acids, alkyl, sodium salts | | 68439-57-6 | 7-13 |
| Sodium sulfate | | 7757-82-6 | 1-5 |
| Fragrance | | Trade Secret | 0.1-1 |

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 symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention. |
| Skin contact | If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see product label). Wash contaminated clothing 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 | Rinse mouth. Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention. |
| Most important symptoms/effects, acute and delayed | Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause an allergic skin reaction. Dermatitis. Rash. 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 | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse. Avoid contact with eyes and skin. Keep out of reach of children. |

5. Fire Fighting Measures

| | |
|--|---|
| Suitable extinguishing media | Dry chemical. Carbon dioxide (CO2). Foam. Water. |
| Unsuitable extinguishing media | None known. |
| 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. |
| Specific methods | Cool containers exposed to flames with water until well after the fire is out. |
| 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. |
| Explosion data | |
| Sensitivity to mechanical impact | Not available. |
| Sensitivity to static discharge | Not available. |

6. Accidental Release Measures

| | |
|--|---|
| Personal precautions, protective equipment and emergency procedures | Keep unnecessary personnel away. Keep out of low areas. 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 | Stop the flow of material, if this is without risk. Large Spills: Wet down with water and dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS. 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. After removal flush contaminated area thoroughly with water. Prevent entry into waterways, sewers, basements or confined areas. |
| 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 | Avoid breathing dust. Avoid contact with eyes, skin and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. |
| Conditions for safe storage, including any incompatibilities | Store in a closed container away from incompatible materials. Keep out of reach of children. |

8. Exposure Controls/Personal Protection

| | |
|--|---|
| Occupational exposure limits | No exposure limits noted for ingredient(s). |
| 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. |
| Skin protection | |
| Hand protection | Rubber gloves. Confirm with a reputable supplier first. |
| Other | Wear appropriate chemical resistant clothing. As required by employer code. |
| Respiratory protection | In case of insufficient ventilation, wear suitable respiratory equipment. 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. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. When using do not eat or drink. |

9. Physical and Chemical Properties

| | |
|---|-------------------------|
| Appearance | Powder |
| Physical state | Solid. |
| Form | Solid. Powder |
| Color | White / Light blue |
| Odor | Lemon detergent |
| 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 applicable. |
| 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. |

10. Stability and Reactivity

| | |
|-------------------|--|
| Reactivity | This product may react with strong alkalies. |
|-------------------|--|

| | |
|---|---|
| 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. Contact with incompatible materials. |
| Incompatible materials | Caustics. Acids. Oxidizers. Reducing 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 | Expected to be a low ingestion hazard. |
| Inhalation | No adverse effects due to inhalation are expected. |
| Skin contact | Causes skin irritation. May cause an allergic skin reaction. |
| Eye contact | Causes serious eye irritation. |

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

Information on toxicological effects

Acute toxicity May cause an allergic skin reaction.

| Components | Species | Test Results |
|-------------------|----------------|---------------------|
|-------------------|----------------|---------------------|

Fragrance (CAS Trade Secret)

Acute

Inhalation

| | | |
|------|---------------|--|
| LC50 | Not available | |
|------|---------------|--|

Oral

| | | |
|------|---------------|--|
| LD50 | Not available | |
|------|---------------|--|

Malic Acid (CAS 6915-15-7)

Acute

Dermal

| | | |
|------|---------------|--|
| LD50 | Not available | |
|------|---------------|--|

Inhalation

| | | |
|------|---------------|--|
| LC50 | Not available | |
|------|---------------|--|

Oral

| | | |
|------|-------|--------------|
| LD50 | Mouse | 1600 mg/kg |
| | Rat | > 3200 mg/kg |

Sodium bicarbonate (CAS 144-55-8)

Acute

Dermal

| | | |
|------|---------------|--|
| LD50 | Not available | |
|------|---------------|--|

Inhalation

| | | |
|------|-----|------------|
| LC50 | Rat | > 4.7 mg/l |
|------|-----|------------|

Oral

| | | |
|------|-------|------------|
| LD50 | Mouse | 3360 mg/kg |
| | Rat | 4220 mg/kg |

Sodium lauryl sulfate (CAS 151-21-3)

Acute

Dermal

| | | |
|------|--------|-----------|
| LD50 | Rabbit | 580 mg/kg |
|------|--------|-----------|

Inhalation

| | | |
|------|-----|---------------------------------|
| LC50 | Rat | > 3900 mg/m ³ , 1 hr |
|------|-----|---------------------------------|

Oral

| | | |
|------|-----|------------|
| LD50 | Rat | 1288 mg/kg |
|------|-----|------------|

| Components | Species | Test Results |
|---|--|--------------|
| Sodium sulfate (CAS 7757-82-6) | | |
| Acute | | |
| <i>Dermal</i> | | |
| LD50 | Rat | 4000 mg/kg |
| <i>Inhalation</i> | | |
| LC50 | Not available | |
| <i>Oral</i> | | |
| LD50 | Mouse | 5989 mg/kg |
| | Rat | 10000 mg/kg |
| Sulfonic acids, alkyl, sodium salts (CAS 68439-57-6) | | |
| Acute | | |
| <i>Dermal</i> | | |
| LD50 | Rabbit | > 6300 mg/kg |
| <i>Inhalation</i> | | |
| LC50 | Not available | |
| <i>Oral</i> | | |
| LD50 | Rat | 1600 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 | May cause an allergic skin reaction. | |
| Germ cell mutagenicity | Non-hazardous by WHMIS/OSHA criteria. | |
| Mutagenicity | Non-hazardous by WHMIS/OSHA criteria. | |
| Carcinogenicity | Not classified or listed by IARC, NTP, OSHA and ACGIH. | |
| Reproductive toxicity | Non-hazardous by WHMIS/OSHA criteria. | |
| Teratogenicity | Non-hazardous by WHMIS/OSHA criteria. | |
| 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. | |
| Name of Toxicologically Synergistic Products | Not available. | |

12. Ecological Information

| Ecotoxicity | See below | | |
|-----------------------------------|-----------|--|---------------------|
| Components | Species | Test Results | |
| Sodium bicarbonate (CAS 144-55-8) | | | |
| Crustacea | EC50 | Daphnia | 2350 mg/L, 48 Hours |
| Aquatic | | | |
| Fish | LC50 | Western mosquitofish (<i>Gambusia affinis</i>) | 7550 mg/l, 96 hours |

| Components | Species | Test Results |
|--|---|--|
| Sodium lauryl sulfate (CAS 151-21-3) | | |
| Algae | IC50 | Algae 53 mg/L, 72 Hours |
| Crustacea | EC50 | Daphnia 1.8 mg/L, 48 Hours |
| Aquatic | | |
| Fish | LC50 | Carp, hawk fish (Cirrhinus mrigala) 1.36 mg/l, 96 hours |
| Sodium sulfate (CAS 7757-82-6) | | |
| Crustacea | EC50 | Daphnia 630 mg/L, 48 Hours |
| Aquatic | | |
| Fish | LC50 | Striped bass (Morone saxatilis) 790 mg/l, 96 hours |
| Sulfonic acids, alkyl, sodium salts (CAS 68439-57-6) | | |
| Aquatic | | |
| Crustacea | EC50 | Water flea (Ceriodaphnia dubia) 4.14 - 4.95 mg/l, 48 hours |
| Persistence and degradability | No data is available on the degradability of this product. | |
| Bioaccumulative potential | No data available. | |
| 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 | Review federal, state/provincial, and local government requirements prior to disposal. 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 | 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)

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 Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

Canada WHMIS Ingredient Disclosure: Threshold limits

| | |
|--------------------------------------|-----|
| Malic Acid (CAS 6915-15-7) | 1 % |
| Sodium lauryl sulfate (CAS 151-21-3) | 1 % |

WHMIS status Controlled

WHMIS classification Class D - Division 2B

WHMIS labeling



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 CAA Section 111 Volatile Organic Compounds: Listed substance

Malic Acid (CAS 6915-15-7) Listed.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

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

SARA 302 Extremely hazardous substance No

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)
Not regulated.

Other federal regulations

Clean Water Act (CWA) Section 112(r) (40 CFR 68.130) Hazardous substance

Safe Drinking Water Act (SDWA) Not regulated.

Food and Drug Administration (FDA) Not regulated.

US state regulations See below

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance
Not listed.

US - Texas Effects Screening Levels: Listed substance

Malic Acid (CAS 6915-15-7) Listed.
Sodium bicarbonate (CAS 144-55-8) Listed.
Sodium lauryl sulfate (CAS 151-21-3) Listed.
Sodium sulfate (CAS 7757-82-6) Listed.
Sulfonic acids, alkyl, sodium salts (CAS 68439-57-6) Listed.

US. Massachusetts RTK - Substance List

Sodium sulfate (CAS 7757-82-6) Listed.

US. Pennsylvania RTK - Hazardous Substances

Sodium sulfate (CAS 7757-82-6) Listed.

US. Rhode Island RTK

Not regulated.

Inventory status

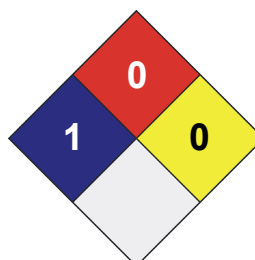
| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory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

| | |
|---------------------|-----|
| HEALTH | * 1 |
| FLAMMABILITY | 0 |
| PHYSICAL HAZARD | 0 |
| PERSONAL PROTECTION | X |



Disclaimer

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

16-March-2015

Effective date

16-March-2015

Expiry date

16-March-2018

Further information

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

Prepared by

Dell Tech Laboratories, Ltd. Phone: (519) 858-5021

Other information

Redbook revision # 19, 10/23/13

This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

This SDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.