

1. Identification

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| Product identifier | Glisten Dishwasher Cleaner |
| Other means of identification | |
| Synonyms | Glisten Dishwasher Magic Machine Cleaner & Disinfectant |
| Recommended use | Dishwasher Cleaner and Disinfectant |
| Recommended restrictions | None known. |
| Manufacturer/Importer/Supplier/Distributor information | |
| Manufacturer | |
| Company name | Iron Out dba Summit Brands |
| Address | 6714 Pointe Inverness Way, Suite 200 Fort Wayne, IN 46804-7935 United States |
| Telephone | 260-483-2519 |
| E-mail | Not available. |
| Emergency phone number | 1-800-424-9300 (CHEMTREC) |
| Supplier | See above. |

2. Hazard identification

| | | |
|-----------------------------------|---|---|
| Physical hazards | Corrosive to metals | Category 1 |
| Health hazards | Serious eye damage/eye irritation | Category 2 |
| | Specific target organ toxicity, single exposure | Category 3 respiratory tract irritation |
| Environmental hazards | Not classified. | |
| WHMIS 2015 defined hazards | Not classified | |
| Label elements | | |



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| Signal word | Warning |
| Hazard statement | May be corrosive to metals. Causes serious eye irritation. May cause respiratory irritation. |
| Precautionary statement | |
| Prevention | Keep only in original packaging. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves and eye protection. |
| Response | Absorb spillage to prevent material-damage. 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. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. |
| Storage | Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in a corrosion resistant container with a resistant inner liner. |
| 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

CANADA: Exempt - Registered product - (DIN 02415569).
This product is not subject to the Hazardous Products Act (HPA) Part II (Hazardous Products) as per paragraph 12(j); Schedule 1 (Non-Application of Part II).
This restriction states that Part II does not apply in respect of the sale or importation of anything listed in Schedule 1 which includes any pest control product as defined in subsection 2(1) of the Pest Control Products Act, any explosive as defined in section 2 of the Explosives Act, any cosmetic, device, drug or food, as defined in section 2 of the Food and Drugs Act, any consumer product as defined in section 2 of the Canada Consumer Product Safety Act and any wood or product made of wood.

US: This is a registered EPA product. The product labeling is in compliance with EPA regulations and guidelines.

3. Composition/Information on ingredients

Mixture

| Chemical name | Common name and synonyms | CAS number | % |
|----------------------|---------------------------------|-------------------|----------|
| Citric Acid | | 77-92-9 | 25 |

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

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| Inhalation | If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention. |
| Skin contact | Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists. |
| 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. |
| Most important symptoms/effects, acute and delayed | Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. |
| Indication of immediate medical attention and special treatment needed | Symptoms may be delayed. Provide general supportive measures and treat symptomatically. |
| 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. Wear rubber gloves and safety glasses with side shields. Keep out of reach of children. |

5. Fire-fighting measures

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| Suitable extinguishing media | Foam. Dry chemical. Carbon dioxide. |
| 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 | 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. |
| Hazardous combustion products | May include and are not limited to: Oxides of carbon. |

6. Accidental release measures

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| 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. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapor. 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. |
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Methods and materials for containment and cleaning up

Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. 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. Never return spills to original containers for re-use.

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

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not contaminate water. 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 prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid contact with eyes. Wash thoroughly after handling. When using do not eat or drink.

Conditions for safe storage, including any incompatibilities

Store in a corrosion resistant container with a resistant inner liner. Store locked up. Store in a closed container away from incompatible materials. Keep only in the original container. Store in a cool, dry place out of direct sunlight. 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

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. Provide eyewash station.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Wear appropriate eye protection.

Skin protection**Hand protection**

Wear appropriate chemical resistant gloves. Confirm with a 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

Clear / Cloudy

Physical state

Liquid.

Form

Liquid.

Color

Colorless

Odor

Citrus

Odor threshold

Not available.

pH

1.2 - 1.5

Melting point/freezing point

120 - 127 °F (48.89 - 52.78 °C) (wax plug)

Initial boiling point and boiling range

Not available.

Specific gravity

Not available.

Flash point

None

Evaporation rate

Not available.

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits**Flammability limit - lower (%)**

Not available.

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| Flammability limit - upper (%) | Not available |
| Explosive limit - lower (%) | Not available. |
| Explosive limit - upper (%) | Not available. |
| Vapor pressure | Not available. |
| Vapor density | Not available. |
| Relative density | 1.109 - 1.121 g/ml |
| Solubility(ies) | Not available. |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| Viscosity | 2.117 centipoises |
| Other information | |
| Pour point | Not available. |
| Explosive properties | Not explosive. |
| Oxidizing properties | Not oxidizing. |

10. Stability and reactivity

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| Reactivity | Reacts violently with strong alkaline substances. This product may react with reducing agents. May be corrosive to metals. |
| Possibility of hazardous reactions | Hazardous polymerization does not occur. |
| Chemical stability | Stable under recommended storage conditions. |
| Conditions to avoid | Reacts violently with strong alkaline substances. This product may react with reducing agents. Do not mix with other chemicals. |
| Incompatible materials | This product may react with reducing agents. Incompatible with bases. Caustics. Oxidizers. |
| Hazardous decomposition products | May include and are not limited to: Oxides of carbon. |

11. Toxicological information

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| Routes of exposure | Eye, Skin contact, Inhalation, Ingestion. |
| Information on likely routes of exposure | |
| Ingestion | May cause stomach distress, nausea or vomiting. |
| Inhalation | May cause irritation to the respiratory system. |
| Skin contact | This product is non-corrosive based on test data. |
| Eye contact | Causes serious eye irritation. This product is non-corrosive based on test data. |
| Symptoms related to the physical, chemical and toxicological characteristics | Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. |

Information on toxicological effects

Acute toxicity See below.

| Product | Species | Test Results |
|--|---------|------------------------------|
| Glisten Dishwasher Cleaner (CAS Mixture) | | |
| Acute | | |
| <i>Dermal</i> | | |
| LD50 | Rat | > 2000 mg/kg, Tested |
| <i>Oral</i> | | |
| LD50 | Rat | > 5000 mg/kg, Tested |
| Components | | |
| Species | | |
| Test Results | | |
| Citric Acid (CAS 77-92-9) | | |
| Acute | | |
| <i>Dermal</i> | | |
| LD50 | Rat | > 2000 mg/kg, 24 Hours, ECHA |

| Components | Species | Test Results |
|---|--|-------------------|
| <i>Inhalation</i> LC50 | Not available | |
| <i>Oral</i> LD50 | Mouse | 5400 mg/kg, ECHA |
| | Rat | 11700 mg/kg, ECHA |
| Skin corrosion/irritation | This product is non-corrosive based on test data. | |
| Exposure minutes | Not available. | |
| Erythema value | Not available. | |
| Oedema value | Not available. | |
| Serious eye damage/eye irritation | Causes serious eye irritation. This product is non-corrosive based on test data. | |
| 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 a respiratory sensitizer. | |
| Skin sensitization | This product is not expected to cause skin sensitization. | |
| Mutagenicity | Non-hazardous by WHMIS/OSHA criteria. | |
| Carcinogenicity | Not classified or listed by IARC, NTP, OSHA and ACGIH. | |
| OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052) | Not listed. | |
| Reproductive toxicity | Non-hazardous by WHMIS/OSHA criteria. | |
| Teratogenicity | Non-hazardous by WHMIS/OSHA criteria. | |
| Specific target organ toxicity - single exposure | May cause respiratory irritation. | |
| Specific target organ toxicity - repeated exposure | Not classified. | |
| Aspiration hazard | Not an aspiration hazard. | |
| Chronic effects | Non-hazardous by WHMIS/OSHA criteria. | |

12. Ecological information

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|--------------------------------------|---|
| Ecotoxicity | See below |
| 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

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| 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. 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. |
| Local disposal regulations | Dispose in accordance with all applicable regulations. |
| Hazardous waste code | D002: Waste Corrosive material [pH ≤2 or ≥12.5, or corrosive to steel] 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.

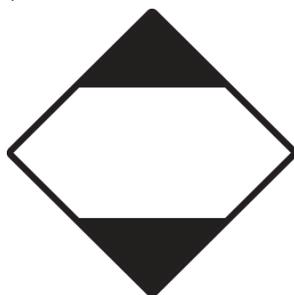
U.S. Department of Transportation (DOT)**Basic shipping requirements:**

UN number UN3265
Proper shipping name Corrosive liquid, acidic, organic, n.o.s.
Technical name Citric Acid
Hazard class Limited Quantity - US
Packing group III
Special provisions 386, IB3, T7, TP1, TP28

Transportation of Dangerous Goods (TDG - Canada)**Basic shipping requirements:**

UN number UN3265
Proper shipping name CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Technical name Citric Acid
Hazard class Limited Quantity - Canada
Packing group III
Special provisions 16

DOT; TDG



15. Regulatory information

Canadian federal regulations Exempt - Registered product - (DIN 02415569).
 This product is not subject to the Hazardous Products Act (HPA) Part II (Hazardous Products) as per paragraph 12(j); Schedule 1 (Non-Application of Part II).
 This restriction states that Part II does not apply in respect of the sale or importation of anything listed in Schedule 1 which includes any pest control product as defined in subsection 2(1) of the Pest Control Products Act, any explosive as defined in section 2 of the Explosives Act, any cosmetic, device, drug or food, as defined in section 2 of the Food and Drugs Act, any consumer product as defined in section 2 of the Canada Consumer Product Safety Act and any wood or product made of wood.

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.

EPA Reg. # 9902-2

CAUTION: KEEP OUT OF THE REACH OF CHILDREN.

PRECAUTIONARY STATEMENTS: Hazardous to humans and domestic animals.
 CAUTION: Harmful if absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. DO NOT mix with chlorine bleach or any other product as harmful fumes may result.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

No

Classified hazard categories

Corrosive to metal
Acute toxicity (any route of exposure)
Serious eye damage or eye irritation
Specific target organ toxicity (single or repeated exposure)

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.

US state regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US - Texas Effects Screening Levels: Listed substance

Citric Acid (CAS 77-92-9)

Listed.

US. California Proposition 65

Not Listed.

Inventory status

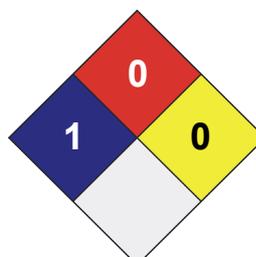
| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory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

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



Disclaimer

The information in the safety data sheet was written by Dell Tech Laboratories Ltd. (www.delltech.com) based on the best knowledge and experience currently available. 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.

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04

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Prepared by

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

Further information

Not available.

Other information

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