

SAFETY DATA SHEET

1. Product and Company Identification

Product identifier Glisten Dishwasher Magic Machine Cleaner

None known

Other means of identification

Not available Dishwasher Cleaner and Disinfectant

Recommended restrictions

Recommended use

Manufacturer information 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

Corrosive to metals Category 1 Physical hazards Category 2 **Health hazards** Skin corrosion/irritation Serious eye damage/eye irritation Category 2A

Environmental hazards Not classified. **OSHA** defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement May be corrosive to metals.

> Causes skin irritation. Causes serious eye irritation.

Precautionary statement

Prevention Keep only in original container. Wash thoroughly after handling. Wear protective gloves. Wear

eye/face protection.

Absorb spillage to prevent material damage. 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 occurs: Get medical advice/attention. Specific treatment (see this label). Take off contaminated clothing and wash it before reuse.

Store in corrosive resistant container with a resistant inner liner. Storage

Disposal Dispose of waste and residues in accordance with local authority requirements.

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	%
Citric Acid		77-92-9	15 - 40

US GHS: The exact percentage (concentration) of composition has been withheld as a trade **Composition comments**

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.

If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off Skin contact

contaminated clothing and wash it before reuse. Specific treatment (see product label).

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.

#7855 Page: 1 of 7 Issue date 06-September-2016 Ingestion

Most important symptoms/effects, acute and delayed

Rinse mouth. Do not induce vomiting. Get medical attention if symptoms occur. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.

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

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. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from the chemical

Special protective equipment

and precautions for firefighters Fire-fighting

equipment/instructions

Specific methods

Hazardous combustion products

Explosion data

Sensitivity to mechanical impact

Sensitivity to static

discharge

Foam. Dry chemical. Carbon dioxide.

Not available.

Not available.

Do not use water jet as an extinguisher, as this will spread the fire.

Firefighters should wear a self-contained breathing apparatus.

Cool containers with flooding quantities of water until well after fire is out.

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

Firefighters should wear full protective clothing including self contained breathing apparatus.

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

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

Large Spills: Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb spillage to prevent material damage. Absorb in vermiculite, dry sand or earth and place into containers. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements or confined areas. 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.

Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. 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. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. Avoid contact with eyes and skin.

Conditions for safe storage, including any incompatibilities

Store in corrosive resistant container with a resistant inner liner. 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 **Biological limit values**

No exposure limits noted for ingredient(s).

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

#7855 Page: 2 of 7 Issue date 06-September-2016 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. Use only under good ventilation conditions or with respiratory protection.

Individual protection measures, such as personal protective equipment

Eye/face protection Safety goggles or glasses.

Skin protection

Hand protection Rubber gloves. Confirm with a reputable supplier first.

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

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respiratory protection 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. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

Appearance Clear Physical state Liquid. Form Liquid Color Colorless Odor Citrus

Odor threshold Not available. 1.2 - 1.5

120 - 127 °F (48.89 - 52.78 °C) (wax plug) Melting point/freezing point

Initial boiling point and boiling

range

Not available.

Not available Pour point Specific gravity 1.109 - 1.121 g/ml

Partition coefficient (n-octanol/water)

Not available.

Flash point None

Not available. **Evaporation rate** Not applicable. Flammability (solid, gas) Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

Flammability limit - upper

(%)

Not available

Not available.

Not available. Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Vapor pressure Vapor density Not available. Not available. Relative density Not available. Solubility(ies)

Not available. **Decomposition temperature** 2.117 centipoises **Viscosity**

10. Stability and Reactivity

Possibility of hazardous

Auto-ignition temperature

reactions

Reactivity

Reacts vigorously with alkaline material. This product may react with strong reducing agents.

Hazardous polymerization does not occur.

Chemical stability Stable under recommended storage conditions.

Reacts violently with strong alkaline substances. This product may react with reducing agents. Do Conditions to avoid

not mix with other chemicals.

#7855 Page: 3 of 7 Issue date 06-September-2016 Incompatible materials This product may react with reducing agents. Incompatible with bases. Caustics. Oxidizers.

Reducing agents.

Hazardous decomposition

products

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

11. Toxicological Information

Routes of exposure Eye, Skin contact, 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. 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

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May

cause redness and pain.

Information on toxicological effects

Acute toxicity

Product Species Test Results

Glisten Dishwasher Magic Machine Cleaner (CAS Mixture)

Acute

Dermal

LD50

.D50 Rat > 2000 mg/kg

Oral

LD50 Rat > 5000 mg/kg

Components Species Test Results

Citric Acid (CAS 77-92-9)

Acute

Dermal

LD50 Not available

Inhalation

LC50 Not available

Oral

LD50 Mouse 5040 mg/kg

Rat 3000 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. This product is non-corrosive based on test data.

Corneal opacity valueNot available.Iris lesion valueNot available.Conjunctival reddeningNot available.

value

Conjunctival oedema value Not available.

Recover days Not available.

Respiratory or skin sensitization

Respiratory sensitization Not available.

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

Germ cell mutagenicityNon-hazardous by WHMIS/OSHA criteria. **Mutagenicity**Non-hazardous by WHMIS/OSHA criteria.

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

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity Non-hazardous by WHMIS/OSHA criteria.

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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

Non-hazardous by WHMIS/OSHA criteria.

Further information Name of Toxicologically **Synergistic Products**

Not available. Not available.

12. Ecological Information

Not available **Ecotoxicity**

Persistence and degradability

Other adverse effects

No data is available on the degradability of this product.

Bioaccumulative potential No data available. No data available. Mobility in soil Mobility in general Not available.

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

Review federal, state/provincial, and local government requirements prior to disposal. Collect and **Disposal instructions**

> 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 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).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport Information

General Canada: TDG Proof of Classification: In accordance with Part 2.2.1 (SOR/2014-152) of the

Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of issue. 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

Corrosive liquid, acidic, organic, n.o.s. Proper shipping name

Technical name Citric Acid

Limited Quantity - US **Hazard class**

Packing group

Special provisions IB3, T7, TP1, TP28 Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

UN3265 **UN** number

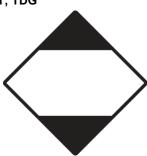
CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. Proper shipping name

Technical name Citric Acid

Hazard class Limited Quantity - Canada

Ш Packing group 16 Special provisions

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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: Listed substance

Citric Acid (CAS 77-92-9)

Listed.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

WHMIS classification Exempt - Registered product - (DIN 02415569)

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)

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

Nο

SARA 311/312 Hazardous

Nο

chemical

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.

#7855 Page: 6 of 7 Issue date 06-September-2016 **US. Massachusetts RTK - Substance List**

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Not regulated.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

Not Listed.

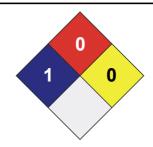
Inventory status

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

16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0





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 06-September-2016

Effective date 27-April-2015 **Expiry date** 27-April-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 # 14, 11/5/14

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)