

SAFETY DATA SHEET

1. Product and Company Identification

Product identifier	Glisten DISHWASHER MAGIC		
Other means of identification	Not available		
Recommended use	Dishwasher Cleaner and Disinfectant		
Recommended restrictions Manufacturer	None known. Iron Out dba Summit Brands 7201 Engle Road Fort Wayne, IN 46804-5875 US Phone: 260-483-2519 Emergency Phone: 1-800-424-9300 (CHE	:MTREC)	
	2. Hazards Identifica	tion	
Physical hazards	Corrosive to metals	Category 1	
Health hazards	Skin corrosion/irritation	Category 2	
	Serious eye damage/eye irritation	Category 2A	
Environmental hazards	Not classified.		
OSHA defined hazards	Not classified.		
Label elements			
Signal word Hazard statement	Warning May be corrosive to metals.		
	Causes skin irritation. Causes serious eye irritation.		
Precautionary statement			
Prevention	Keep only in original container. Wash thore eye/face protection.	oughly after handling. Wear pr	otective gloves. Wear
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 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.		
Storage	Store in corrosive resistant container with	a resistant inner liner.	
Disposal	Dispose of waste and residues in accorda	nce with local authority require	ements.
Hazard(s) not otherwise classified (HNOC)	None known.		
Supplemental information	Not applicable.		
	3. Composition/Information o	n Ingredients	
Mixture			
Chemical name	Common name and synonym	s CAS number	%
Citric Acid		77-92-9	15 - 40
Composition comments	US GHS: The exact percentage (concentring secret in accordance with paragraph (i) of		n withheld as a trade
	4. First Aid Measu	es	
Inhalation	If symptoms develop move victim to fresh	air. If symptoms persist, obtai	n medical attention.
Skin contact	If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Specific treatment (see product label).		
Eye contact	If in eyes: Rinse cautiously with water for easy to do. Continue rinsing. If eye irritation		

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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. Eye wash facilities and emergency shower must be available when handling this product. Provide eyewash station. 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.
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.
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

	Clear
Physical state	Liquid.
Form	Liquid
Color	Colorless
Odor	Citrus
Odor threshold	Not available.
рН	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.
Pour point	Not available.
Specific gravity	1.109 - 1.121 g/ml
Partition coefficient (n-octanol/water)	Not available.
Flash point	None
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or expl	losive 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.
Relative density	Not available.
Solubility(ies)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	2.117 centipoises

10. Stability and Reactivity

Reactivity	Reacts vigorously with alkaline material. This product may react with strong reducing agents.
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. Reducing agents.
Hazardous decomposition	May include and are not limited to: Oxides of carbon.

	11. Toxicologica	I Information	
Routes of exposure	Eye, Skin contact, Ingestion.		
Information on likely routes o	of exposure		
Ingestion	Expected to be a low ingestion ha	zard.	
Inhalation	No adverse effects due to inhalation	on are expected.	
Skin contact	Causes skin irritation. This produc	t is non-corrosive based on test data.	
Eye contact	Causes serious eye irritation. This	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, to cause redness and pain.	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May	
Information on toxicological e	effects		
Acute toxicity			
Product	Species	Test Results	
Glisten DISHWASHER MAGIC	(CAS Mixture)		
Acute			
Dermal			
LD50	Rat	> 2000 mg/kg	
Oral		5000	
LD50	Rat	> 5000 mg/kg	
Components	Species	Test Results	
Citric Acid (CAS 77-92-9) Acute			
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		Causes serious eye irritation. This product is non-corrosive based on test data.	
irritation			
Corneal opacity value	Not available.		
Iris lesion value	Not available.		
Conjunctival reddening value	Not available.		
Conjunctival oedema val	ue Not available.		
Recover days	Not available.		
Respiratory or skin sensitizat	ion		
Respiratory sensitization	Not available.		

Skin sensitization

Germ cell mutagenicity

Reproductive toxicity

Specific target organ toxicity -

Mutagenicity

Carcinogenicity

Teratogenicity

single exposure

This product is not expected to cause skin sensitization.

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

Non-hazardous by WHMIS/OSHA criteria.

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Not classified.

Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not available.
Chronic effects	Non-hazardous by WHMIS/OSHA criteria.
Further information	Not available.
Name of Toxicologically Synergistic Products	Not available.
	12. Ecological Information
Ecotoxicity	No ecotoxicity data noted for the ingredient(s).
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. 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).
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
General	DOT - 49 CFR 173.154 (d)(1) - Metal exemption
U.S. Donortmont of Transportati	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 Transportati Not regulated as dangerous g	
Transportation of Dangerous Go	
Basic shipping requirement	
UN number	UN3265
Proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Citric Acid)
Hazard class	Limited Quantity - Canada III
Packing group Special provisions	16
TDG	

F F Canada WHMIS Ingredient Dis Citric Acid (CAS 77-92-9)	1 % Exempt - Registered product - (DIN 02415569)	
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	Exempt - Registered product - (DIN 02415569)	
WHMIS classification		
	big product is a "Uszardous Chemical" as defined by the OSUA Uszard	
	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Standard, 29 CFR 1910.1200.	Communication
E	EPA Reg. # 9902-2	
C	CAUTION: KEEP OUT OF THE REACH OF CHILDREN.	
C v e	PRECAUTIONARY STATEMENTS: Hazardous to humans and domestic CAUTION: Harmful if absorbed through the skin. Causes moderate eye in vith skin, eyes and clothing. Wash thoroughly with soap and water after heating, drinking, chewing gum, using tobacco or using the toilet. DO NOT or any other product as harmful fumes may result.	ritation. Avoid contact and ling and before
	tification (40 CFR 707, Subpt. D)	
Not regulated. CERCLA Hazardous Substanc Not listed.		
. ,	2(r) Accidental Release Prevention (40 CFR 68.130)	
Not regulated. Clean Air Act (CAA) Section 11 Not regulated.	2 Hazardous Air Pollutants (HAPs) List	
Superfund Amendments and Reau	thorization Act of 1986 (SARA)	
U E E E E E E E E E E E E E E E E E E E	mmediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No	
SARA 302 Extremely Nazardous substance	lo	
SARA 311/312 Hazardous N chemical	10	
SARA 313 (TRI reporting) Not regulated.		
Other federal regulations		
Safe Drinking Water Act N (SDWA)	lot regulated.	
,	lot regulated.	
0	California Safe Drinking Water and Toxic Enforcement Act of 1986 (Properson of the second secon	,
•	n 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance	•
Not listed. US - Texas Effects Screen	ing Levels: Listed substance	
Citric Acid (CAS 77-92- US. Massachusetts RTK -	9) Listed.	
Not regulated. US. Pennsylvania RTK - Ha	azardous Substances	
Not regulated. US. Rhode Island RTK Not regulated.		
Inventory status		
	nventory name	On inventory (yes/no)*
	Domestic Substances List (DSL)	Yes
Canada N	Ion-Domestic Substances List (NDSL)	No

Country(s) or region

Inventory name

Toxic Substances Control Act (TSCA) Inventory

Yes

United States & Puerto Rico *A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) 16. Other Information

LEGENDSevere4Serious3Moderate2Slight1Minimal0	HEALTH / 1 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.
Issue date	27-April-2015
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