

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name DISHWASHER MAGIC

CAS # Mixture

Product use Dishwasher cleaner and Disinfectant

Manufacturer Iron Out dba Summit Brands

7201 Engle Road

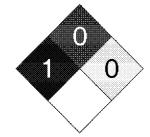
Fort Wayne, IN 46804-5875 US

Phone: 260-483-2519

Emergency Phone: 1-800-424-9300 (CHEMTREC)







2. Hazards Identification

Emergency overview CAUTION

EYE AND SKIN IRRITANT.

Potential short term health effects

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

Eyes Causes irritation.
Skin Causes irritation.

Inhalation May cause respiratory tract irritation.

Ingestion May cause stomach distress, nausea or vomiting.

Target organs Eyes. Skin. Respiratory system.

Chronic effects Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and

vomiting.

3. Composition / Information on Ingredients

Ingredient(s)	CAS#	Percent
Citric acid	77-92-9	15 - 40

4. First Aid Measures

First aid procedures

Eye contact Immediately flush with cool water. Remove contact lenses, if applicable, and continue

flushing for 15 minutes. Obtain medical attention immediately.

Skin contact Immediately flush with water. Wash with soap and water. Obtain medical attention if

irritation persists.

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

attention.

Ingestion Do not induce vomiting. Rinse mouth with water, then drink one or two glasses of water.

Obtain medical attention. Never give anything by mouth if victim is unconscious, or is

convulsing.

Notes to physician Symptoms may be delayed.

General advice

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

Flammable properties Not flammable by WHMIS/OSHA criteria.

Extinguishing media

Suitable extinguishing media Dry chemical. Water spray. Foam. Carbon dioxide.

Unsuitable extinguishing media Not available

Protection of firefighters

Specific hazards arising from

the chemical

Not available

Protective equipment for

firefighters

Firefighters should wear full protective clothing including self contained breathing

apparatus

Hazardous combustion products

Explosion data

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

Sensitivity to mechanical

impact

Not available

Sensitivity to static discharge No

Not available

6. Accidental Release Measures

Personal precautions Keep unnecessary personnel away. Do not touch or walk through spilled material. Do

not touch damaged containers or spilled material unless wearing appropriate protective

clothing. Keep people away from and upwind of spill/leak.

Methods for containment Stop leak if you can do so without risk. Prevent entry into waterways, sewers,

basements or confined areas. Use water spray to reduce vapors or divert vapor cloud

drift.

Methods for cleaning up Before attempting clean up, refer to hazard data given above. Small spills may be

absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency

services and supplier for advice. Never return spills in original containers for re-use.

7. Handling and Storage

Handling Use good industrial hygiene practices in handling this material.

Storage Keep out of reach of children. Store in a closed container away from incompatible

materials.

8. Exposure Controls / Personal Protection

Exposure limits

Ingredient(s) Exposure Limits

Citric acid ACGIH-TLV

TWA: 10 mg/m3
OSHA-PEL
TWA: 10 mg/m3

Engineering controlsUse only under good ventilation conditions or with respiratory protection.

Personal protective equipment

Eye / face protection Safety goggles or glasses.

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

Skin and body protection As required by employer code.

Respiratory protection Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical & Chemical Properties

Appearance Clear. Color Transparent Form Liquid Odor Citrus. Odor threshold Not available Physical state Liauid 1.2 - 1.5Ηq Not available Melting point Not available Freezing point Not available **Boiling point**

Flash point None

Evaporation rate Not available **Flammability limits in air, lower,** % Not available

by volume

Flammability limits in air, upper, %

by volume

Not available

Vapor pressure

Vapor density

Not available

Not available

Not available

1.1 g/mL

Octanol/water coefficient

Auto-ignition temperature

Not available

Percent volatile

Not available

10. Chemical Stability & Reactivity Information

Chemical stability Stable under recommended storage conditions.

Conditions to avoid Do not mix with other chemicals.

Incompatible materials Caustics. Oxidizers. Reducing agents.

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

Possibility of hazardous reactions Hazardous polymerization does not occur.

11. Toxicological Information

Component analysis - LC50

Ingredient(s) LC50

Citric acid Not available

Component analysis - Oral LD50

Ingredient(s) LD50

Citric acid 5040 mg/kg mouse; 3000 mg/kg rat

Effects of acute exposure

Eye Causes irritation.
Skin Causes irritation.

Inhalation May cause respiratory tract irritation.

Ingestion May cause stomach distress, nausea or vomiting.

Sensitization

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

Chronic effects

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

Carcinogenicity

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

Mutagenicity

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

Reproductive effects

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

Teratogenicity

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

#7855 Page 3 of 5 Issue date 22-Aug-2008

12. Ecological Information

Ecotoxicity Not available

Ecotoxicity - Freshwater Fish Species Data

Citric acid 77-92-9 96 Hr LC50 Lepomis macrochirus: 1516 mg/L [static]; 96 Hr LC50 Leuciscus idus: 440

mg/L [static]

Ecotoxicity - Microtox Data

Citric acid 77-92-9 15 Min EC50 Photobacterium phosphoreum: 14 mg/L

Ecotoxicity - Water Flea Data

Citric acid 77-92-9 72 Hr EC50 Daphnia magna: 120 mg/L

Environmental effects

Aquatic toxicity

Persistence / degradability

Bioaccumulation / accumulation

Partition coefficient

Mobility in environmental media

Chemical fate information

Not available

Not available

Not available

13. Disposal Considerations

Waste codes Not available

Disposal instructions Review federal, provincial, and local government requirements prior to disposal.

Waste from residues / unused

products

Not available

Contaminated packaging Not available

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 MSDS contains all the information required by the

Controlled Products Regulations.

Canada - WHMIS - Ingredient Disclosure List

Citric acid 77-92-9 1 %

US Federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

CERCLA/SARA Hazardous Substances - Not applicable.

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous Ye

chemical

CERCLA (Superfund) reportable quantity

None

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

Section 302 extremely

hazardous substance

Section 311 hazardous chemical Yes

Clean Air Act (CAA) Not available
Clean Water Act (CWA) Not available

Safe Drinking Water Act (SDWA) Not available
Drug Enforcement Agency (DEA) Not available
Food and Drug Administration Not available

(FDA)

WHMIS status Controlled

WHMIS classification Class D - Division 2B

WHMIS labeling



State regulations This product does not contain a chemical known to the State of California to cause

cancer, birth defects or other reproductive harm.

Inventory name

Country(s) or regionInventory nameOn inventory (yes/no)*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

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

16. Other Information

Disclaimer 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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#7855 Page 5 of 5 Issue date 22-Aug-2008