

SAFETY DATA SHEET

1. Product and Company Identification

Product identifier Kleenwise Distiller Cleaner & Descaler

Other means of identification

Not available

Recommended use

Water Processing Equipment Cleaner

Recommended restrictions

None known.

Manufacturer information

Waterwise Inc Leesburg, FL 34748-4900 US

Phone 352-787-5008

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

Same as above Supplier

2. Hazards Identification

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

Environmental hazards WHMIS 2015 defined hazards Not classified. Not classified

Label elements



Signal word Danger

Hazard statement May be corrosive to metals.

Causes severe skin burns and eye damage.

Precautionary statement

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

gloves/protective clothing/eye protection/face protection.

Absorb spillage to prevent material-damage. Response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. Specific treatment (see information on this label). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing

Store in a corrosion resistant container with a resistant inner liner. Store locked up. Storage

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

WHMIS 2015: Health Hazard(s)

not otherwise classified

(HHNOC)

None known

WHMIS 2015: Physical None known Hazard(s) not otherwise

classified (PHNOC)

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	10-30*
Sulfamic acid		5329-14-6	65-85*

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

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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.

*CANADA GHS: The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First Aid Measures

Inhalation IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a

POISON CENTER/doctor.

Skin contact IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash

contaminated clothing before reuse. Specific treatment (see information on this label). Immediately

call a POISON CENTER/doctor.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present Eye contact

and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON Ingestion

CENTER/doctor.

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

blindness could result. Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

Burning pain and severe corrosive skin damage. Causes serious eve damage. Symptoms may

include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

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. Wear rubber gloves and chemical splash goggles. Keep out of reach of children.

5. Fire Fighting Measures

Firefighters should wear a self-contained breathing apparatus.

Suitable extinguishing media Unsuitable extinguishing media

Carbon dioxide. Water spray. Dry chemical powder. Foam.

None known.

Specific hazards arising from

the chemical

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

and precautions for firefighters Fire-fighting

In the event of fire, cool tanks with water spray. Cool containers with flooding quantities of water until well after fire is out.

equipment/instructions Specific methods

Hazardous combustion products

Cool containers exposed to flames with water until well after the fire is out.

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

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. Absorb spillage to prevent material damage. Use water spray to reduce vapors or divert vapor cloud drift. 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. Prevent entry into waterways, sewers, basements or confined areas.

Do not discharge into lakes, streams, ponds or public waters.

7. Handling and Storage

Environmental precautions

Precautions for safe handling

Use only with adequate ventilation. Avoid breathing dust. Avoid prolonged exposure. Wear appropriate personal protective equipment. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. Do not get in eyes, on skin or on clothing.

Conditions for safe storage, including any incompatibilities Store locked up. 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. Keep out of the reach of children.

8. Exposure Controls/Personal Protection

Occupational exposure limits

No exposure limits noted for ingredient(s).

#29237 Page: 2 of 7 Issue date 04-May-2018 **Biological limit values** No biological exposure limits noted for the ingredient(s). **Exposure guidelines** This material does not have established exposure limits.

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 (or goggles) and a face shield.

Skin protection

Impervious gloves. Confirm with reputable supplier first. Hand protection As required by employer code. Rubber apron recommended. Other

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. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Appearance Free-flowing Powder.

Physical state Solid. Solid. **Form** Yellow Color Odorless Odor Not available. Odor threshold

рΗ 0.89 (10% w/w), Acid reserve 33.56g NaOH/100g Not available.

Melting point/freezing point Initial boiling point and boiling

range

Not available. Not available.

Pour point Not available. Specific gravity Partition coefficient Not available.

(n-octanol/water) Flash point

Flammability (solid, gas)

Evaporation rate

Not available. Not available. Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

Flammability limit - upper

Not available.

Not available. Explosive limit - lower (%) Explosive limit - upper (%) Not available. Not available. Vapor pressure

Vapor density Not available. Relative density Not available. Not available. Solubility(ies) Not available. Auto-ignition temperature Not available. **Decomposition temperature** Not available. **Viscosity**

10. Stability and Reactivity

Reactivity Possibility of hazardous reactions

This product may react with reducing agents. May react with strong bases or oxidizing agents.

Hazardous polymerization does not occur.

#29237 Page: 3 of 7 Issue date 04-May-2018 **Chemical stability** Stable under recommended storage conditions.

Conditions to avoid Do not mix with other chemicals.

Incompatible materials Caustics. Oxidizers. Bases. Reducing agents.

Hazardous decomposition products

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

sulfur.

11. Toxicological Information

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

Information on likely routes of exposure

Causes digestive tract burns. Ingestion

Inhalation May cause irritation to the respiratory system.

Skin contact Causes severe skin burns. Causes serious eye damage. Eye contact

Symptoms related to the physical, chemical and toxicological characteristics

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result.

Information on toxicological effects

Acute toxicity

Components **Species Test Results**

Citric Acid (CAS 77-92-9)

Acute

Dermal

LD50 Rat > 2000 mg/kg, 24 Hours, ECHA

Inhalation

Not available LC50

Oral

LD50 Mouse 5400 mg/kg, ECHA

5040 mg/kg, HSDB

Rat 11700 mg/kg, ECHA

6730 mg/kg, HSDB

Sulfamic acid (CAS 5329-14-6)

Acute

Dermal

Rat LD50 > 2000 mg/kg, 24 Hours

Inhalation

Not available LC50

Oral

LD50 Guinea pig 1050 mg/kg, SAX

> Mouse 1312 mg/kg, SAX

Rat > 2000 mg/kg

> 3160 mg/kg, SAX 2140 mg/kg, ECHA

Skin corrosion/irritation Causes severe skin burns and eye damage.

Exposure minutes Not available. Not available. Erythema value Oedema value Not available.

Serious eye damage/eye

irritation

Causes serious eye damage.

Not available. Corneal opacity value Iris lesion value Not available. Conjunctival reddening Not available.

value

Recover days

Conjunctival oedema value Not available. Not available.

#29237 Page: 4 of 7 Issue date 04-May-2018 Respiratory or skin sensitization

Respiratory sensitization Not available.

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

Mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

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 This product is not expected to cause reproductive or developmental effects.

Teratogenicity Non-hazardous by WHMIS/OSHA criteria.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Topoutou exposure

Aspiration hazard Not available.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological Information

Ecotoxicity See below

Ecotoxicological data

Components Species Test Results

Citric Acid (CAS 77-92-9)

Acute

Crustacea EC50 Daphnia magna 120 mg/L, 72 hr

Aquatic

Acute

Fish LC50 Bluegill (Lepomis macrochirus) 1516 mg/L, 96 hr

Sulfamic acid (CAS 5329-14-6)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) 14.2 mg/L, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Mobility in soil

Mobility in general

No data available.

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. 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 regulationsDispose 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 packagingEmpty 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

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

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 UN1759

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Proper shipping name Corrosive solids, n.o.s.

Technical name Sulfamic acid

Hazard class 8
Packing group III

Special provisions 128, IB8, IP3, T1, TP33 **Packaging exceptions** <11 lbs - Limited Quantity

Packaging non bulk 213 Packaging bulk 240

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

UN number UN1759

Proper shipping name CORROSIVE SOLID, N.O.S.

Technical name Sulfamic acid

Hazard class 8
Packing group III
Special provisions 16

Packaging exceptions < 5kg - Limited Quantity

DOT



TDG



15. Regulatory Information

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

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.

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed

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 No hazardous substance

SARA 311/312 Hazardous No

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 See below

US - New Jersey RTK - Substances: Listed substance

Sulfamic acid (CAS 5329-14-6)

US - Texas Effects Screening Levels: Listed substance

Citric Acid (CAS 77-92-9) Listed. Sulfamic acid (CAS 5329-14-6) Listed.

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

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.

Inventory status

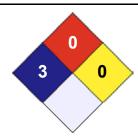
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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

16. Other Information







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.

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

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

document.

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