

# SAFETY DATA SHEET

### 1. Product and Company Identification

**Product identifier** Kleenwise<sup>®</sup> Other means of identification Not available

Recommended use

**Recommended restrictions Responsible Party** 

Water Processing Equipment Cleaner None known.

Waterwise <sup>®</sup> Inc 3608 Parkway Blvd.

Leesburg, FL 34748-9399 US

Phone 352-787-5008

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

#### 2. Hazards Identification

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

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

Label elements



Signal word Danger

**Hazard statement** May be corrosive to metals.

Causes severe skin burns and eye damage.

**Precautionary statement** 

Prevention Keep only in original container.

Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/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. Immediately call a poison center/doctor.

If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash contaminated clothing before reuse.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

Specific treatment (see this label).

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

Store locked up.

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

**Disposal** 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	%
Sulfamic acid		5329-14-6	60 - 100
Citric Acid		77-92-9	10 - 30

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

If inhaled: Remove person to fresh air and keep comfortable for breathing. Inhalation

#24470 Page: 1 of 7 Issue date 12-February-2015 Skin contact If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash contaminated clothing before reuse.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and Eye contact

easy to do. Continue rinsing. Immediately call a poison center/doctor.

Ingestion

If swallowed: Rinse mouth. Do NOT induce vomiting.

Most important symptoms/effects, acute and

delayed

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.

Indication of immediate medical attention and special Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

treatment needed **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. Wear rubber gloves and chemical splash goggles.

### 5. Fire Fighting Measures

Suitable extinguishing media

Unsuitable extinguishing media

Carbon dioxide (CO2). Water spray. Dry chemical powder. Foam.

None known.

Specific hazards arising from the chemical

Special protective equipment

Firefighters should wear a self-contained breathing apparatus.

and precautions for firefighters

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

In the event of fire, cool tanks with water spray. Cool containers with flooding quantities of water

Fire-fighting equipment/instructions

until well after fire is out.

**Hazardous combustion** 

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

products

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

Ammonia.

**Explosion data** 

Specific methods

Sensitivity to mechanical

impact

Not available.

Sensitivity to static discharge

Not available.

## 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.

**Environmental precautions** 

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

# 7. Handling and Storage

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

**Biological limit values** 

**Exposure guidelines** 

Appropriate engineering controls

No exposure limits noted for ingredient(s).

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

This material does not have established exposure limits.

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.

#24470 Page: 2 of 7 Issue date 12-February-2015 Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields (or goggles) and a face shield. Eye/face protection

Skin protection

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

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.

# 9. Physical and Chemical Properties

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

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 Not available. **Evaporation rate** Not available. Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

Not available.

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%) Not available. Vapor pressure Not available. Vapor density Relative density Not available. Not available. Solubility(ies) **Auto-ignition temperature** Not available. Not available. **Decomposition temperature** 

Not available. Viscosity

# 10. Stability and Reactivity

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

Possibility of hazardous

reactions

Chemical stability

Stable under recommended storage conditions.

Hazardous polymerization does not occur.

Conditions to avoid Do not mix with other chemicals.

Caustics. Oxidizers. Bases. Reducing agents. Incompatible materials

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

### 11. Toxicological Information

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

#24470 Page: 3 of 7 Issue date 12-February-2015 Information on likely routes of exposure

**Ingestion** Causes digestive tract burns.

**Inhalation** May cause irritation to the respiratory system.

Skin contact Causes severe skin burns.

Eye contact Causes serious eye damage.

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

Inhalation

LC50 Not available

Oral

LD50 Mouse 5040 mg/kg

Rat 3000 mg/kg

Sulfamic acid (CAS 5329-14-6)

**Acute** 

Oral

LD50 Guinea pig 1050 mg/kg

Mouse 1312 mg/kg

Rat 3160 mg/kg

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

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

Serious eye damage/eye

irritation

Causes serious eye damage.

Corneal opacity value Not available.

Iris lesion value Not available.

Conjunctival reddening Not 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 mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

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.

**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 - Not classified.

repeated exposure

Aspiration hazard Not available.

**Chronic effects** Prolonged inhalation may be harmful. Non-hazardous by WHMIS/OSHA criteria.

Further information Not available.

Name of Toxicologically Not available.

**Synergistic Products** 

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12. Ecological Information

**Ecotoxicity** See below

Components **Species Test Results** 

Citric Acid (CAS 77-92-9)

Acute

EC50 Crustacea 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

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

Persistence and degradability

No data is available on the degradability of this product.

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

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects

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).

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

#### U.S. Department of Transportation (DOT)

Basic shipping requirements:

**UN** number UN1759

Corrosive solids, n.o.s. (Sulfamic acid) Proper shipping name

8 **Hazard class** Ш **Packing group** 

Special provisions 128, IB8, IP3, T1, TP33

**Packaging exceptions** 154 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. (Sulfamic acid)

**Hazard class** Packing group Ш **Special provisions** 16

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**TDG** 



# 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: Threshold limits** 

Citric Acid (CAS 77-92-9) 1 % Sulfamic acid (CAS 5329-14-6) 1 %

WHMIS status Controlled

WHMIS classification Class E - Corrosive Material

WHMIS labeling



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.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

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

No

SARA 311/312 Hazardous

ous

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Safe Drinking Water Act

(SDWA)

Not regulated.

Food and Drug

Administration (FDA)

Not regulated.

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

#### US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

**US - New Jersey RTK - Substances: Listed substance** 

Sulfamic acid (CAS 5329-14-6) Listed.

**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. Pennsylvania RTK - Hazardous Substances

Not regulated.

**US. Rhode Island RTK** 

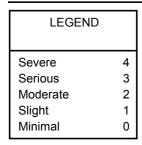
Not regulated.

#### **Inventory status**

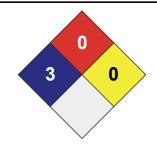
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<sup>\*</sup>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.

Issue date12-February-2015Effective date01-February-2015Expiry date01-February-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 # 1, 1/23/14

This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of

Chemicals (GHS).

This SDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.