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Revision Number 2

SECTION I - IDENTIFICATION**Product identifier****Product Name:** Bar Keepers Friend Coffee Maker Descaler**Other means of identification****Product Codes(s):** 1424192**Recommended use of the chemical and restrictions on use****Recommended use:** General Purpose Cleaner - Non-aerosol**Restrictions on use:** No information available**Details of the supplier of the safety data sheet****Supplier Identification:** SerVaas Laboratories, Inc
5240 Walt Place
Indianapolis, IN 46254-5795
USA**Company Telephone Number:** 1-800-433-5818 (for USA callers)
1-317-636-7760 (for non-USA callers)**Email:** sison@barkeepersfriend.com**Emergency Phone Number:** 1-800-424-9300 (CHEMTREC)**SECTION 2 - HAZARDS IDENTIFICATION**

Classification:	Skin corrosion/irritation	Category 1
	Serious eye damage/eye irritation	Category 1

Appearance Clear to light yellow**Physical state** Liquid**Odor** Characteristic**GHS Label elements, including precautionary statements****Danger****Hazard statements:** Causes severe skin burns and eye damage**Precautionary Statements****- Prevention:**

Do not breathe dusts or mists.

Wash face, hands and any exposed skin thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements**- Response:**

Immediately call a POISON CENTER or doctor.

Specific treatment (see supplemental first aid instructions on this label).

Eyes

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 or doctor.



Skin	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. Wash contaminated clothing before reuse.
Inhalation	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.
Ingestion	IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.
Precautionary Statements	
- Storage:	Store locked up.
Precautionary Statements	
- Disposal:	Dispose of contents/container to an approved waste disposal plant.
Other information	<p>Unknown acute toxicity: 19.66 % of the mixture consists of ingredient(s) of unknown toxicity</p> <p>0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity</p> <p>19.66 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity</p> <p>19.66 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)</p> <p>19.66 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)</p> <p>12.89 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)</p>

SECTION 3 - COMPOSITION / INFORMATION ON THE INGREDIENTS

Substance: Not applicable

Mixture:

Chemical name	CAS No	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Citric acid	77-92-9	< 10	-	-
Glycolic acid	79-14-1	< 10	-	-
Sulfamic acid	5329-14-6	< 5	-	-

SECTION 4 - FIRST AID MEASURES

General advice: Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Inhalation: Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical advice/attention.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

Skin contact: Wash off immediately with soap and plenty of water while removing all

contaminated clothes and shoes. Get immediate medical advice/attention.

Ingestion: Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.

Self-protection of the first aider: Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Wear personal protective clothing (see section 8)

Most important symptoms/effects, both acute and delayed:

Symptoms: Burning sensation.

Indication of immediate medical attention and special treatment, if needed

Note to physicians: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.

SECTION 5 - FIREFIGHTING MEASURES

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical: The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products: Carbon oxides.

Explosion Data:

Sensitivity to Mechanical Impact: None

Sensitivity to Static Discharge: None

Special protective equipment and precautions for fire-fighters: Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Personal precautions: Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Methods and materials for containment and cleaning up

Methods for containment: Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other materials.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Limits: This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering controls: Showers. Eyewash stations. Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection: Face protection shield.

Hand protection: Wear suitable gloves. Impervious gloves.

Skin and body protection: Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

Respiratory protection: No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid

Appearance: Clear to light yellow

Odor: Characteristic

Color: No information available

Odor threshold: Not applicable

Property: **Values** **Remarks Method**

pH: 2

Melting / freezing point: No data available

None known

Boiling point / boiling range: No data available

None known

Flash Point:	No data available	None known
Evaporation Rate	No data available	None known
Flammability (solid, gas):	No data available	None known
Flammability Limit in Air:		None known
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Vapor pressure:	No data available	None known
Vapor density:	No data available	None known
Relative density:	1.076	
Water Solubility:	Miscible in water	
Solubility(ies):	No data available	None known
Partition coefficient:		
n-octanol/water:	Not applicable	
Autoignition temperature:	No data available	None known
Decomposition temperature:	No data available	None known
Kinematic viscosity:	No data available	None known
Dynamic viscosity:	No data available	None known

Other Information

Explosive properties:	No information available
Oxidizing properties:	No information available
Softening Point:	No information available
Molecular Weight:	No information available
VOC Content (%):	No information available
Liquid Density:	No information available
Bulk Density:	No information available
Particle Size:	No information available
Particle Size Distribution:	No information available

SECTION 10 - STABILITY AND REACTIVITY

Reactivity:	No information available
Chemical stability:	Stable under normal conditions
Possibility of Hazardous Reactions:	None under normal processing.
Hazardous Polymerization:	Hazardous polymerization does not occur.
Conditions to avoid:	Exposure to air or moisture over prolonged periods.
Incompatible materials:	Acids. Bases. Oxidizing agent.
Hazardous Decomposition Products:	Carbon oxides.

SECTION 11 - TOXICOLOGICAL INFORMATION**Information on likely routes of exposure****Product Information**

Inhalation:	Specific test data for the substance or mixture is not available. Corrosive by inhalation. (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin,
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decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal.

Eye Contact:

Specific test data for the substance or mixture is not available. Causes burns. (based on components). Corrosive to the eyes and may cause severe damage including blindness. May cause mild irritation. Causes serious eye damage. May cause irreversible damage to eyes.

Skin Contact:

Specific test data for the substance or mixture is not available. Corrosive. (based on components). Causes burns.

Ingestion:

Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways.

Information on toxicological effects**Symptoms:**

Redness. Burning. May cause blindness. Coughing and/ or wheezing.

Numerical measures of toxicity**Acute Toxicity:**

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral) 11,320.00 mg/kg

ATEmix (inhalation-dust/mist) 99.10 mg/L

Unknown acute toxicity :

19.66 % of the mixture consists of ingredient(s) of unknown toxicity.

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

19.66 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

19.66 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

19.66 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

12.89 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information :

	Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Citric acid	= 3000 mg/kg (Rat) = 3 g/kg (Rat)	-	-	-
Glycolic acid	= 1950 mg/kg (Rat)	-	> 5.2 mg/L (Rat) 4 h = 3.6 mg/L (Rat) 4 h	
Sulfamic acid	= 1450 mg/kg (Rat)	-	-	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Skin corrosion/irritation:**

Classification based on data available for ingredients. Causes burns.

Serious eye damage/eye irritation:

Classification based on data available for ingredients. Risk of serious damage to eyes. Causes burns. No information available.

Respiratory or skin sensitization:

No information available.

Germ cell mutagenicity:

No information available.

Carcinogenicity:	No information available.
Reproductive toxicity:	No information available.
STOT - single exposure:	No information available.
STOT - repeated exposure:	No information available.
Aspiration hazard:	No information available.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: The environmental impact of this product has not been fully investigated.

Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Citric acid	-	96h LC50: = 1516 mg/L (Lepomis macrochirus)	-	72h EC50: = 120 mg/L
Glycolic acid	-	96h LC50: > 5000 mg/L (Brachydanio rerio)	-	-
Sulfamic acid	-	96h LC50: = 14.2 mg/L (Pimephales promelas)	-	-

Persistence and Degradability: No information available.

Bioaccumulation:	Chemical name	Log Pow
	Citric acid	-1.72
	Glycolic acid	-1.11

Mobility: No information available.

Other adverse effects: No information available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused products:	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging:	Do not reuse empty containers.
US EPA Waste Number:	D002
California Waste Codes:	791

SECTION 14 - TRANSPORT INFORMATION

DOT

Proper Shipping Name	CONSUMER COMMODITY
Hazard Class	ORM-D
Description	CONSUMER COMMODITY, ORM-D
Emergency Response Guide Number	153

TDG

UN-No.	UN3265
Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Hazard Class	8
Packing Group	II
Description	UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (CITRIC ACID, GLYCOLIC ACID), 8, II

MEX

UN-No.	UN3265
Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Hazard Class	8
Packing Group	II
Description	UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (CITRIC ACID, GLYCOLIC ACID), 8, II

ICAO

UN-No.	UN3265
Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Hazard Class	8
Packing Group	II
Description	UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (CITRIC ACID, GLYCOLIC ACID), 8, II

IATA

UN-No.	UN3265
Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Hazard Class	8
Packing Group	II
ERG Code	8L
Description	UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (CITRIC ACID, GLYCOLIC ACID), 8, II

IMDG/IMO

UN-No.	UN3265
Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Hazard Class	8
Packing Group	II
EmS-No	F-A, S-B
Description	UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (CITRIC ACID, GLYCOLIC ACID), 8, II

RID

UN-No.	UN3265
Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Hazard Class	8
Packing Group	II
Classification Code	C3
Description	UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (CITRIC ACID, GLYCOLIC ACID), 8, II
ADR/RID-Labels	8

ADR

UN-No.	UN3265
Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Hazard Class	8
Packing Group	II

Classification Code	C3
Tunnel Restriction Code	(E)
Description	UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (CITRIC ACID, GLYCOLIC ACID), 8, II, (E)
ADN	
UN-No.	UN3265
Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Hazard Class	8
Packing Group	II
Classification Code	C3
Special Provisions	274
Description	UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (CITRIC ACID, GLYCOLIC ACID), 8, II
Hazard Labels	8
Limited Quantity	1 L

SECTION 15 - REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Regulations

Ozone-depleting substances (ODS): Not applicable

Persistent Organic Pollutants: Not applicable

Export Notification requirements: Not applicable

International Inventories:	TSCA	Contact supplier for inventory compliance status.
	DSL/NDSL	Contact supplier for inventory compliance status.
	EINECS/ELINCS	Contact supplier for inventory compliance status.
	ENCS	Contact supplier for inventory compliance status.
	KECL	Contact supplier for inventory compliance status.
	PICCS	Contact supplier for inventory compliance status.
	AICS	Contact supplier for inventory compliance status.

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances **ENCS** - Japan Existing and New Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at

40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Citric acid 77-92-9			RQ Section number 180.950

US State Regulations**California Proposition 65:**

This product does not contain any Proposition 65 chemicals.

California SB-258 Compliance:

	CAS#	Ingredient Name	Function	California List/Website Active Link Reference
	7732-18-5	Water	Ingredient Coupler	No
	77-92-9	Citric Acid	Descaler	No
	79-14-1	Glycolic Acid	Descaler	No
	5329-14-6	Sulfamic Acid	Descaler	No

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Sulfamic acid 5329-14-6	X				

SECTION 16 - OTHER INFORMATION

NFPA Health hazards 3 Flammability 0 Instability 0 Physical and Chemical Properties - Personal Protection X

HMIS Health hazards 3 Flammability 0 Physical Hazards 0

Prepared By:
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1-800-572-6501

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Revision Note: No information available

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