



SAFETY DATA SHEET

Product Names: Coffee Machine Descaler & Cleaner - 2 Uses.
(1 Bottle) Universal Descaling Solution Compatible with Keurig,
Nespresso, Delonghi and All Single Use Coffee and Espresso Machines

Revision number: 001 Date: 23/10/2023

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Trade name: Coffee Machine Descaler & Cleaner - 2 Uses. (1 Bottle)
Universal Descaling Solution Compatible with Keurig,
Nespresso, Delonghi and All Single Use Coffee and
Espresso Machines

Brand: Bastion

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Coffee Machine Descaler Cleaner.
Uses advised against: All other uses.

1.3 Details of the supplier of the Safety Data Sheet

Rutledge Brands
40 Washburns Lane,
Stony Point, NY, 10980,
USA

Phone: (800) 606-6031
E-mail: Info@rutledgebrands.com

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to OSHA Hazardous Communication Standard 29 CFR 1910.1200.

Eye irritation, category 2

2.2 Label elements

Labelling according to OSHA Hazardous Communication Standard 29 CFR 1910.1200.



Signal word: Warning

Hazard statements:

H319 Causes serious eye irritation.

Precautionary statements:

P264 – Wash hands thoroughly after handling.
P280 – Wear eye protection.
P302 + P352 – IF ON SKIN: Wash with plenty of water/soap.



SAFETY DATA SHEET

Product Names: Coffee Machine Descaler & Cleaner - 2 Uses. (1 Bottle) Universal Descaling Solution Compatible with Keurig, Nespresso, Delonghi and All Single Use Coffee and Espresso Machines

Revision number: 001 Date: 23/10/2023

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332 + P313 – If skin irritation occurs: Get medical advice/attention.

P337 + P313 – If eye irritation persists: Get medical advice/ attention.

P501 – Dispose of contents/container to national/local/international regulations.

2.3 Other hazards

None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

This product does contain hazardous chemicals according to the OSHA Hazardous Communication Standard 29 CFR 1910.1200.

Hazardous ingredients:

Name	CAS No.	GHS classification	% (w/v)
Citric acid	77-92-9	Eye Irrit. 2, H319	Proprietary

The exact percentages (concentration) of composition have been withheld as a trade secret.

Additional information:

For the full text of the H-statements mentioned in this section, see Section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Following inhalation: If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

Following skin contact: IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical attention. Specific treatment (see information on this label). Take off contaminated clothing and wash it before reuse.

Following eye contact: 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 attention.

Following ingestion: Rinse mouth. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious or is convulsing. Obtain medical attention.

Protection of first aider: Not applicable.



SAFETY DATA SHEET

Product Names: Coffee Machine Descaler & Cleaner - 2 Uses.
(1 Bottle) Universal Descaling Solution Compatible with Keurig,
Nespresso, Delonghi and All Single Use Coffee and Espresso
Machines

Revision number: 001 Date: 23/10/2023

4.2 Most important symptoms and effects

Symptoms: The known symptoms and effects are described in section 2.2 of this SDS.

Risks: Untreated symptoms may result in additional health risks.

4.3 Indication of any immediate medical and special treatment

The physician may contact the national poison centre for advice.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Dry chemical, CO₂, water spray or alcohol-resistant foam.

Unsuitable extinguishing media: No data available.

5.2 Specific hazards arising from mixture

Thermal decomposition can lead to release of irritating gases and vapors.

5.3 Advice for fire fighters

Special protective equipment for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear.

5.4 Other information

No other information available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 NOTES FOR NON-EMERGENCY PERSONNEL: Keep unnecessary personnel away. 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.

6.2 Environmental precautions:

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.



SAFETY DATA SHEET

Product Names: Coffee Machine Descaler & Cleaner - 2 Uses.
(1 Bottle) Universal Descaling Solution Compatible with Keurig,
Nespresso, Delonghi and All Single Use Coffee and Espresso
Machines

Revision number: 001 Date: 23/10/2023

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Notes for those trained to participate in an emergency:

6.3 ACCIDENTAL RELEASE MEASURES: Provide adequate ventilation. Avoid excessive inhalation of vapors. Contain spillage immediately by use of sand or inert powder. Dispose of according to local regulations.

Recommendations for personal protective equipment selection are noted above. Dispose in accordance with section 13 of this document.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. When using do not eat or drink.

7.2 Conditions for safe storage, including any incompatibilities

Storage Conditions: Keep out of the reach of children. Store in original tightly closed container. Store away from incompatible materials.

Incompatible materials: See section 10.

7.3 Specific end uses

See section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Control parameters according to the local regulations should be taken into account.

8.2 Exposure controls

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.

Personal Protective equipment:

Hand: Wear protective gloves



SAFETY DATA SHEET

Product Names: Coffee Machine Descaler & Cleaner - 2 Uses.
(1 Bottle) Universal Descaling Solution Compatible with Keurig,
Nespresso, Delonghi and All Single Use Coffee and Espresso
Machines

Revision number: 001 Date: 23/10/2023

<u>Body protection:</u>	Impervious clothing.
<u>Eye:</u>	Depending on the use of this product splash or safety glasses may be worn in an industrial setting.
<u>Respiratory:</u>	In the case of respirable dust and/or fumes, use self-contained breathing apparatus.
<u>Other measures:</u>	No statement available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Powder
Color:	No data available
Odor:	No data available
Odor threshold:	No data available
pH:	No data available
Melting point/range:	No data available
Boiling point/range:	No data available
Flash point:	No data available
Evaporation rate:	No data available
Flammability:	No data available
Upper/lower flammability or explosive limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Relative Density:	No data available
Solubility(ies):	No data available
Partition coefficient (n-octanol/water):	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Explosive properties:	No data available
Oxidizing properties:	No data available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

None under normal use conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.



SAFETY DATA SHEET

Product Names: Coffee Machine Descaler & Cleaner - 2 Uses.
(1 Bottle) Universal Descaling Solution Compatible with Keurig,
Nespresso, Delonghi and All Single Use Coffee and Espresso
Machines

Revision number: 001 Date: 23/10/2023

10.4 Conditions to avoid

Do not mix with other chemicals.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

In case of fire: see section 5.2

No other data available.

SECTION 11: TOXICOLOGICAL INFORMATION

General information:

This product does not contain known human carcinogens.

11.1 Information on toxicological effects

Acute Toxicity:

No statements available for any of the ingredients.

Skin corrosion/irritation:

No statements available for any of the ingredients.

Serious eye damage/irritation:

Causes serious eye irritation.

Respiratory or skin sensitization:

No statements available for any of the ingredients.

Germ cell mutagenicity:

No statements available for any of the ingredients.

Carcinogenicity:

This product does not contain known human carcinogens.

Reproductive toxicity:

No statements available for any of the ingredients.

STOT – single exposure:

No statements available for any of the ingredients.

STOT – repeated exposure:

No statements available for any of the ingredients.

Aspiration hazard:

No statements available for any of the ingredients.

Likely route(s) of exposure:



SAFETY DATA SHEET

Product Names: Descaling Powder Solution (6-Uses) Coffee Machine
Descaler Cleaner | Compatible with Breville Keurig Nespresso Delonghi
Ninja & More | To Descale Automatic Coffee Pots & Makers & Espresso
Machines

Revision number: 001 Date: 23/10/2023

Skin exposure and eye exposure are the most likely to occur. Accidental ingestion is also possible.

SECTION 12: ECOLOGICAL INFORMATION

General information:

No statements available for any of the ingredients.

12.1 Toxicity

No statements available for any of the ingredients.

12.2 Persistence and degradability

Physical- and photochemical elimination:

No statements available for any of the ingredients.

Biodegradation:

No statements available for any of the ingredients.

12.3 Bioaccumulative potential

No statements available for any of the ingredients.

12.4 Mobility in soil

Known/Predicted environmental distribution:

No statements available for any of the ingredients.

Surface tension:

No statements available for any of the ingredients.

Adsorption/Desorption:

No statements available for any of the ingredients.

12.5 Results of PBT and vPvB assessment

This product does not contain components which are considered to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

No statements available for any of the ingredients.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product:



SAFETY DATA SHEET

Product Names: Coffee Machine Descaler & Cleaner - 2 Uses.
(1 Bottle) Universal Descaling Solution Compatible with Keurig,
Nespresso, Delonghi and All Single Use Coffee and Espresso
Machines

Revision number: 001 Date: 23/10/2023

Can be disposed of with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations. Smaller quantities can be disposed of with household waste.

Waste material:

Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT Not regulated as a dangerous material.

14.2. In Accordance with IMDG Not regulated as a hazardous good.

14.3. In Accordance with IATA Not regulated as a hazardous good.

SECTION 15: REGULATORY INFORMATION

International Inventories

TSCA: Complies

DSL: No components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL -
Canadian Domestic Substances List/Non-Domestic Substances List.

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

Acute health hazard: No

Chronic Health Hazard: No

Fire hazard: No

Sudden release of pressure hazard: No

Reactive Hazard: No

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



SAFETY DATA SHEET

Product Names: Coffee Machine Descaler & Cleaner - 2 Uses.
(1 Bottle) Universal Descaling Solution Compatible with Keurig,
Nespresso, Delonghi and All Single Use Coffee and Espresso
Machines

Revision number: 001 Date: 23/10/2023

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.

Canada

WHMIS Hazard Class

Not determined.

SECTION 16: OTHER INFORMATION

Complete text of Globally Harmonized System of Classification and Labelling of Chemicals hazard statements as listed in section 3:

H319 – Causes serious eye irritation

Further information

The information presented in this Safety Data Sheet (SDS) is accurate to the best of our knowledge at the date of publication. The information given within the SDS is meant solely as a guide for safe handling, use, transportation, processing, storage, release and disposal. In no means can the information within the SDS be considered as a warranty or specification for quality.