



# Keurig Descaling Solution

## Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

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### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : Keurig Descaling Solution

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

Use of the substance/mixture : Descaler for coffee and other foodservice equipment

#### 1.3. Details of the supplier of the safety data sheet

**Manufacturer**  
Urnex Brands, LLC  
700 Executive Blvd.  
10523 Elmsford, NY - USA  
T 1-914-963-2042  
F 1-914-963-2145  
[info@urnex.com](mailto:info@urnex.com)

#### Distributor

#### 1.4. Emergency telephone number

Emergency number : International (Infotrac): +1 (352) 323-3500  
US (CHEMTREC): 800-424-9300

### SECTION 2: Hazard identification

#### 2.1. Classification of the substance or mixture

##### GHS classification

Eye Irrit. 2A

#### 2.2. Label elements

##### GHS labelling

Hazard pictograms (GHS) :



GHS07

Signal word (GHS) : Warning  
Hazard statements (GHS) : Causes serious eye irritation.  
Precautionary statements (GHS) : Wash hands thoroughly after handling. Wear protective gloves/eye protection. 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 advice/attention.

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity

Not applicable.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%
Citric acid	(CAS-No.) 77-92-9	7 - 13

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

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### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

- |                                       |  |
|---------------------------------------|--|
| First-aid measures after inhalation   | : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.                           |
| First-aid measures after skin contact | : If skin irritation occurs: Wash skin with plenty of water. Obtain medical attention if irritation persists.  |
| First-aid measures after 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 advice/attention. |
| First-aid measures after ingestion    | : Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.                                     |

#### 4.2. Most important symptoms and effects, both acute and delayed

- |                                     |   |
|-------------------------------------|---|
| Symptoms/effects after inhalation   | : May cause irritation to the respiratory tract.  |
| Symptoms/effects after skin contact | : May cause skin irritation. Repeated exposure may cause skin dryness or cracking.  |
| Symptoms/effects after eye contact  | : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. |
| Symptoms/effects after ingestion    | : May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.  |

#### 4.3. Indication of any immediate medical attention and special treatment needed

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### SECTION 5: Fire-fighting measures

#### 5.1. Extinguishing media

- |                                |   |
|--------------------------------|---|
| Suitable extinguishing media   | : Carbon dioxide (CO <sub>2</sub> ). Dry chemical powder. Water spray. For large fire: Water spray. Alcohol foam. |
| Unsuitable extinguishing media | : Do not use water jet.   |

#### 5.2. Special hazards arising from the substance or mixture

- |             |   |
|-------------|---|
| Fire hazard | : Products of combustion may include, and are not limited to: oxides of carbon. |
|-------------|---|

#### 5.3. Advice for firefighters

- |                                |   |
|--------------------------------|---|
| Protection during firefighting | : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Cool closed containers exposed to fire with water spray. |
|--------------------------------|---|

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

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|------------------|--|
| General measures | : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. |
|------------------|--|

##### 6.1.1. For non-emergency personnel

No additional information available

##### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

#### 6.3. Methods and material for containment and cleaning up

- |                         |   |
|-------------------------|---|
| For containment         | : Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment. |
| Methods for cleaning up | : Sweep or shovel spills into appropriate container for disposal. Provide ventilation.  |

#### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- |                               |  |
|-------------------------------|--|
| Precautions for safe handling | : Avoid contact with skin and eyes. Avoid breathing mist, vapours, dust. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Avoid formation of aerosol. |
| Hygiene measures              | : Wash contaminated clothing before reuse. Always wash hands after handling the product.   |

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### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep out of the reach of children. Keep away from oxidizing agents. Keep container tightly closed. Store locked up.
- Packaging materials : Keep only in the original container.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Citric acid (77-92-9)

Not applicable

### 8.2. Exposure controls

- Appropriate engineering controls : Ensure good ventilation of the work station.
- Hand protection : Wear suitable gloves.
- Eye protection : Wear eye/face protection.
- Skin and body protection : Wear suitable protective clothing.
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Environmental exposure controls : Avoid release to the environment.
- Other information : Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Appearance : Clear liquid.
- Colour : Colourless
- Odour : None
- Odour threshold : No data available
- pH : 1.86 (Undiluted); Acid Reserve = 1.61
- Melting point : No data available
- Freezing point : No data available
- Boiling point : No data available
- Flash point : No data available
- Relative evaporation rate (butylacetate=1) : No data available
- Flammability (solid, gas) : Not flammable
- Vapour pressure : No data available
- Relative vapour density at 20 °C : No data available
- Relative density : 1.05
- Solubility : No data available
- Partition coefficient n-octanol/water : No data available
- Auto-ignition temperature : No data available
- Decomposition temperature : No data available
- Viscosity, kinematic : No data available
- Viscosity, dynamic : No data available
- Explosive limits : No data available
- Explosive properties : No data available
- Oxidising properties : No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

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### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Heat. Incompatible materials.

### 10.5. Incompatible materials

Oxidizing agents.

### 10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified.
Acute toxicity (dermal)	: Not classified.
Acute toxicity (inhalation)	: Not classified.

Citric acid (77-92-9)	
LD50 oral rat	3 g/kg
LD50 dermal rat	> 2000 mg/kg
ATE CA (oral)	3000 mg/kg bodyweight

Skin corrosion/irritation	: Not classified. pH: 1.86 (Undiluted); Acid Reserve = 1.61
Serious eye damage/irritation	: Causes serious eye irritation. pH: 1.86 (Undiluted); Acid Reserve = 1.61
Respiratory or skin sensitisation	: Not classified.
Germ cell mutagenicity	: Not classified.
Carcinogenicity	: Not classified.
Reproductive toxicity	: Not classified.
STOT-single exposure	: Not classified.
STOT-repeated exposure	: Not classified.
Aspiration hazard	: Not classified.
Symptoms/effects after inhalation	: May cause irritation to the respiratory tract.
Symptoms/effects after skin contact	: May cause skin irritation. Repeated exposure may cause skin dryness or cracking.
Symptoms/effects after eye contact	: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Symptoms/effects after ingestion	: May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: May cause long-term adverse effects in the aquatic environment.
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Citric acid (77-92-9)	
LC50 fish 1	1516 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)

### 12.2. Persistence and degradability

Keurig Descaling Solution	
Persistence and degradability	Not established.

### 12.3. Bioaccumulative potential

Keurig Descaling Solution	
Bioaccumulative potential	Not established.

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### Citric acid (77-92-9)

Partition coefficient n-octanol/water	-1.72 (at 20 °C)
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#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Other information : No other effects known.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Recycle empty containers where allowed.

### SECTION 14: Transport information

#### Department of Transportation (DOT) and Transportation of Dangerous Goods (TDG)

In accordance with DOT/TDG

Not regulated

### SECTION 15: Regulatory information

#### 15.1. Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

#### 15.2. International regulations

No additional information available

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

### SECTION 16: Other information

Revision date : 06/27/2019

Other information : None.

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