Safety data sheet
according to 1907/2006/EC, Article 31

Printing date: 08.10.2014 *Version No: 2* *Revision: 08.10.2014*

1 Identification of the substance/mixture and of the company/undertaking

· ***Product identifier***

· ***Trade name: Keurig® Descaling Solution***

· ***Relevant identified uses of the substance or mixture and uses advised against***

· ***Application of the substance / the preparation:*** *Descaler for coffee and food service equipment*

· ***Details of the supplier of the safety data sheet***

· ***Manufacturer/Supplier:***

Urnex Brands, Inc.
700 Executive Blvd.
Elmsford, NY 10523 USA
Phone: +1-914-963-2042
Fax: +1-914-963-2145
Email: info@urnex.com

Urnex Brands, Inc.
29 Harley Street, London, W1G 9QR
United Kingdom
Tel: +44 (0)20 7927 6881

· ***Emergency telephone number:***
Tel.: 800-424-9300 (USA)
Tel.: 001-703-527-3887 (INTERNATIONAL COLLECT ACCEPTED)

2 Hazards identification

· ***Classification of the substance or mixture***
· ***Classification according to Regulation (EC) No 1272/2008***
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.

· ***Label elements***
· ***Labelling according to Regulation (EC) No 1272/2008***
The product is classified and labelled according to the CLP regulation.
· ***Hazard pictograms***



GHS07

· ***Signal word*** *Warning*
· ***Hazard statements***
H315 Causes skin irritation.
H319 Causes serious eye irritation.
· ***Precautionary statements***

P264	*Wash thoroughly after handling.*
P305+P351+P338	*IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*
P362	*Take off contaminated clothing and wash before reuse.*
P332+P313	*If skin irritation occurs: Get medical advice/attention.*
P337+P313	*If eye irritation persists: Get medical advice/attention.*
P302+P352	*IF ON SKIN: Wash with plenty of soap and water.*

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· ***Other hazards***
· ***Results of PBT and vPvB assessment***
· ***PBT:*** *Not determined*
· ***vPvB:*** *Not determined*

3 Composition/information on ingredients

· ***Chemical characterization: Mixtures***

· ***Dangerous components:***

CAS: 77-92-9 EINECS: 201-069-1	citric acid Skin Irrit. 2, H315; Eye Irrit. 2, H319	< 12%

4 First aid measures

· ***Description of first aid measures***
· ***General information:*** *Take affected persons out of danger area and lay down.*
· ***After inhalation:*** *Supply fresh air; consult doctor in case of complaints.*
· ***After skin contact:*** *Immediately wash with water and soap and rinse thoroughly.*
· ***After eye contact:***
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· ***After swallowing:***
Rinse out mouth and then drink plenty of water.
If symptoms persist consult doctor.
· ***Information for doctor:***
· ***Most important symptoms and effects, both acute and delayed*** *No further relevant information available.*
· ***Indication of any immediate medical attention and special treatment needed***
No further relevant information available.

5 Firefighting measures

· ***Extinguishing media***
· ***Suitable extinguishing agents:***
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire extinguishing methods suitable to surrounding conditions.
· ***Special hazards arising from the substance or mixture*** *Carbon monoxide (CO)*
· ***Advice for firefighters***
· ***Protective equipment:*** *Wear self-contained respiratory protective device.*
· ***Additional information***
Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

· ***Personal precautions, protective equipment and emergency procedures***
Ensure adequate ventilation
Wear protective clothing.
· ***Environmental precautions:*** *Dilute with plenty of water.*
· ***Methods and material for containment and cleaning up:***
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.

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Dispose of the material collected according to regulations.
· ***Reference to other sections***
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

· ***Handling:***
· ***Precautions for safe handling***
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
· ***Information about fire and explosion protection:*** *Keep respiratory protective device available.*

· ***Conditions for safe storage, including any incompatibilities***
· ***Storage:***
· ***Requirements to be met by storerooms and receptacles:*** *Store only in the original receptacle.*
· ***Information about storage in one common storage facility:*** *Store away from oxidizing agents.*
· ***Further information about storage conditions:***
Keep container tightly sealed.
Store under lock and key and out of the reach of children.
· ***Specific end use(s)*** *No further relevant information available.*

8 Exposure controls/personal protection

· ***Control parameters***
· ***Ingredients with limit values that require monitoring at the workplace:***
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· ***Exposure controls***
· ***Personal protective equipment:***
· ***General protective and hygienic measures:***
Do not inhale gases / fumes / aerosols.
The usual precautionary measures are to be adhered to when handling chemicals.
· ***Respiratory protection:*** *Not necessary if room is well-ventilated.*
· ***Protection of hands:*** *Not required.*
· ***Material of gloves***
Natural rubber, NR
Nitrile rubber, NBR
· ***Penetration time of glove material***
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
· ***Eye protection:*** *Safety glasses*
· ***Body protection:*** *Protective work clothing*

9 Physical and chemical properties

· ***Information on basic physical and chemical properties***
· ***General Information***
· ***Appearance:***

Form:	*Fluid*
Colour:	*According to product specification*

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· **Odour:**	Characteristic
· **pH-value (10 g/l) at 20°C:**	2.5-3.0
· **Change in condition** **Melting point/Melting range:** **Boiling point/Boiling range:**	 Not determined. Not determined.
· **Flash point:**	Not determined.
· **Self-igniting:**	Product is not selfigniting.
· **Danger of explosion:**	Product does not present an explosion hazard.
· **Density:**	Not determined.
· **Solubility in / Miscibility with water:**	Soluble.
· **Solvent content:** **Organic solvents:**	 0.0 %
Solids content:	<12 %
· **Other information**	No further relevant information available.

10 Stability and reactivity

· **Reactivity**
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**

· **LD/LC50 values relevant for classification:**		
77-92-9 Citric acid		
Oral	LD50	5040 mg/kg (mouse), 11700mg/kg (Rat)

· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** No irritating effect.
· **Sensitization:** No sensitizing effects known.

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.
· **Behaviour in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.

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· **Mobility in soil** No further relevant information available.

· **Additional ecological information:**
· **General notes:** Generally not hazardous for water
· **Results of PBT and vPvB assessment**
· **PBT:** Not determined
· **vPvB:** Not determined
· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:** Smaller quantities can be disposed of with household waste.

· **Uncleaned packaging**
· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **UN-Number** · **ADR, IMDG, IATA**	Void
· **UN proper shipping name** · **ADR, IMDG, IATA**	Void
· **Transport hazard class(es)** · **ADR, IMDG, IATA** · **Class**	Void
· **Packing group** · **ADR, IMDG, IATA**	Void
· **Environmental hazards:** · **Marine pollutant:**	No
· **Special precautions for user**	Not applicable.
· **Transport in bulk according to Annex I I of MARPOL73/78 and the IBC Code:**	Not applicable.
· **Transport/Additional information:**	Not dangerous according to the above specifications.
· **UN "Model Regulation":**	-

15 Regulatory information

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**
H315 Causes skin irritation.
H319 Causes serious eye irritation.

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· ***Abbreviations and acronyms:***
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent