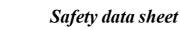


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## 1 Identification of the substance/mixture and of the company/undertaking

- · 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

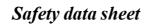
- Classification of the substance or mixture • Classification according to OSHA HCS 2012
- Skin Irrit. 2 H315 Causes skin irritation.
- Eye Irrit. 2 H319 Causes serious eye irritation.

#### · Label elements

- · Labelling according to OSHA HCS 2012
- The product is classified and labelled according to the CLP regulation.
- · Hazard pictograms



· 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. (Contd. on page 2)



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< 12%

• Other hazards

· Results of PBT and vPvB assessment

• **PBT:** Not determined

· vPvB: Not determined

## 3 Composition/information on ingredients

#### • Chemical characterization: Mixtures

•	Dangerous	components:
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CAS: 77-92-9

Skin Irrit. 2, H315; Eye Irrit. 2, H319

#### 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.

citric acid

- 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.

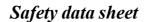
- Special hazards arising from the substance or mixture Carbon monoxide (CO)
- Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.
- Additional information
- Cool endangered receptacles with water spray.

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:FluidColour: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:		
· 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:
- Oral LD50 5040 mg/kg (mouse), 11700mg/kg (Rat)

77-92-9 Citric acid

- · 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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 $\cdot$  **Mobility in soil** No further relevant information available.

- Additional ecological information:
- $\cdot$  **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.

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	II of
MARPOL73/78 and the IBC Code:	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	<u>.</u>

## 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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# Safety data sheet



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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

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