

**DRI-PAK LIMITED**

SAFETY DATA SHEET in accordance with Regulation (EC) 1907/2006 and Regulation (EU) 453/2010

Product: **APPLIANCE DESCALER 500ml**

MSDS 17/09/D

Version 3

Date compiled November 2014

Revision 2

Date revised October 2019

Page 1 of 6

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product Identifier**

Product Name **APPLIANCE DESCALER 500ml**

Chemical Name A liquid mixture

**1.2 Relevant identified uses of the substance/mixture and uses advised against**

Generally used as a domestic appliance descaler.

1.2.1 Uses advised against Do not mix with carbonates, alkalis, bleaches or other products.

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

Company Details (Manufacturer) Dri-Pak Limited,  
Furnace Road,  
Ilkeston, Derbyshire, DE7 5EP  
Telephone 0115 9 325165  
Fax 0115 9 440297  
E-mail address [bruce@dripak.co.uk](mailto:bruce@dripak.co.uk)

Company Details (Supplier) Ocado Retail Limited,  
Hatfield,  
Hertfordshire, AL10 9EX  
Telephone 0345 6561234  
E-mail address [ocado@ocado.com](mailto:ocado@ocado.com)

**1.4 Emergency Telephone Number**

Emergency Number 07836 697940

Contact [bruce@dripak.co.uk](mailto:bruce@dripak.co.uk)

**2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture**

2.1.1 Classification according to Regulation (EC) 1272/2008  
Eye irritant 2

**2.2 Label elements**

2.2.1 Labelling according to Regulation (EC) 1272/2008

Hazard Pictogram

Signal Word Warning

□



Hazard Statements

H319 Causes serious eye irritation

Precautionary Statements:



P102: Keep out of reach of children.  
P264: Wash hands thoroughly after handling.  
P280 Wear eye/face protection.  
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313: If eye irritation persists: Get medical advice/attention.  
P101: If medical advice is needed have product container or label at hand.

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Page 2 of 6

---

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### **3.1/2 Substance/Mixture**

Appliance descaler is an aqueous mixture.

#### **3.2.1/2 Hazardous components in mixture**

Citric acid	Concentration less than 40%	
	CAS Number	EC Number
Citric acid	77-92-9	201-069-1

#### **2.1.1 Classification according to Regulation (EC) 1272/2008**

Citric acid Eye irritant 2

#### **3.2.3 Other hazardous components in mixture**

None identified.

REACH Registration number of citric acid 01-2119457026-42-0006

### **4. FIRST AID MEASURES**

#### **4.1 Description of first aid measures**

4.1.1 General advice	Take off all contaminated clothing. Move to fresh air, keep warm and at rest. If symptoms persist seek medical advice.
Skin contact	Remove contaminated clothing. Wash the skin with plenty of water until no adverse feeling remains. Obtain medical attention if symptoms, e.g. redness or irritation, develop.
Eye contact	Remove contact lenses if present. The eye should be thoroughly irrigated with clean water for not less than 15 minutes. Obtain medical attention if symptoms develop.
Ingestion	Wash out mouth with water and give plenty of water to drink. Do not induce vomiting. If patient feels unwell obtain medical attention.
Further Medical Treatment	Symptomatic treatment and supportive therapy as indicated.

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

**Skin contact: Irritation** may occur.

**Eye contact: Redness or irritation** may occur.

**Ingestion: May cause nausea and vomiting.**

**Inhalation:** There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing.

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

Treat symptomatically.

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Page 3 of 6

---

**5. FIRE FIGHTING MEASURES****5.1 Extinguishing media**

If evaporation occurs the residue will char and burn and packaging will burn.

**5.1.1 Suitable extinguishing media**

Use extinguisher suitable for surrounding fire conditions.

**5.1.2 Unsuitable extinguishing media**

No further information available.

**5.2 Special hazards arising from the substance or mixture**

When dried out, in combustion emits irritating and toxic fumes.

**5.3 Advice for fire fighters**

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

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**6. ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures****6.1.1 For non emergency personnel**

Avoid contact with skin and eyes. Absorb with inert, absorbent material and rinse well. Wash area with plenty of water.

**6.1.2 For emergency responders**

In the event of accidental release of bulk liquid wear suitable gloves and eye/face protection. Absorb with inert, absorbent material. Sweep up for disposal according to local legislation. The affected area can be cleaned with plenty of water.

**6.2 Environmental precautions**

Prevent uncontrolled discharges into the environment.

**6.3 Methods and material for containment and cleaning up**

Refer to 6.1 above.

**6.4 Reference to other sections**

For personal protection see Section 8.

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**7. HANDLING AND STORAGE****7.1 Precautions for safe handling**

Always follow good personal hygiene when working with this product. Wash promptly with soap and water if skin becomes contaminated. Avoid contact with skin and eyes. Ensure adequate ventilation.

**7.2 Conditions for safe storage, including any incompatibles**

Store in a cool well-ventilated place in the original closed containers. Avoid contact with alkalis and finely divided metals.

Keep out of the reach of children.

**7.3 Specific end use(s)**

Refer to label on container.

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Page 4 of 6

---

**8. EXPOSURE CONTROLS /PERSONAL PROTECTION****8.1 Control parameters**

Currently no data available.

**8.2 Exposure controls****8.2.1 Appropriate engineering controls**

Provide adequate general ventilation.

**8.2.2 Personal protective equipment**

Respiratory protection Ensure adequate ventilation.

Eye protection Wear eye/face protection, goggles or face visor.

Skin protection Gloves are recommended for people with sensitive or damaged skin. Avoid prolonged contact with skin. Rinse hands after use.

Industrial Hygiene Normal standards of industrial hygiene should be observed.

Disposal Empty container thoroughly before disposal and recycle where possible.

**8.2.3 Environmental exposure controls**

Contain any large spillage, avoid large discharges to the environment. Dispose of any large rinse water in accordance with local and national regulations.

**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

Appearance	colourless liquid
Odour	odourless
Odour threshold	currently not available
pH	1 (neat)
Melting point/Freezing Point	About 0° C
Initial boiling point and boiling point range	about 100° C
Flash point	not applicable
Evaporation rate	not applicable
Flammability	currently not available
Upper flammability or explosive limits	currently not available
Vapour pressure	not applicable
Vapour density	not applicable
Relative density	1.12/1.13
Solubility(ies)	miscible with water
Partition coefficient: n-octanol/water	currently not available
Autoignition temperature	currently not available
Decomposition temperature	currently not available
Viscosity	as water
Explosive properties	not explosive
Oxidising properties	non-oxidising (by EC criteria)

**9.2 Other information**

No other information available.

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Page 5 of 6

---

**10. STABILITY AND REACTIVITY**

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|------|---|--|
| 10.1 | <u>Reactivity</u>                         | Stable under normal conditions.  |
| 10.2 | <u>Chemical stability</u>                 | Stable under normal conditions.  |
| 10.3 | <u>Possibility of hazardous reactions</u> | Liberates carbon dioxide when mixed with carbonates. Solutions may react with new surfaces of aluminium and zinc and their alloys to produce hydrogen. |
| 10.4 | <u>Conditions to avoid</u>                | Strong heat causing the product to evaporate and char and liberate toxic fumes,  |
| 10.5 | <u>Incompatible materials</u>             | Strong oxidising agents. Strong bases.   |
| 10.6 | <u>Hazardous decomposition products</u>   | When dried out, in combustion emits toxic fumes of carbon dioxide and carbon monoxide.   |
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**11. TOXICOLOGICAL INFORMATION**

- 11.1 Information on toxicological effects  
Currently no specific data available.
- |              |   |
|--------------|---|
| Inhalation   | May irritate the respiratory system.  |
| Skin contact | May cause skin irritation.  |
| Eye contact  | Irritating to the eyes. May cause corneal damage in severe circumstances.   |
| Ingestion    | May result in a burning sensation in the mouth and throat, inability to swallow, and irritation of the gastrointestinal tract with nausea and vomiting. |

**12. ECOLOGICAL INFORMATION**

- 12.1 Toxicity  
No specific information available.
- 12.2 Persistence and degradability  
No specific information available.
- 12.3 Bioaccumulative potential  
No specific information available.
- 12.4 Mobility in soil  
Soluble in water.
- 12.5 Results of PBT and vPvB assessment  
No component is identified as a PBT or a vPvB substance.
- 12.6 Other adverse effects  
No environmental hazard is likely provided the product is handled and disposed of with due care in accordance with normal household practice on following the instructions on the label.
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**13. DISPOSAL CONSIDERATIONS**

- 13.1 Waste treatment methods  
Disposal should be in accordance with local, county or national legislation. Small quantities may be washed away using plenty of water. Dispose of contents by using as per directions for use. Recycle empty container where possible.
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**14. TRANSPORT INFORMATION**

In its normal packaging this product is not classified as hazardous for transport.

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Revision 2

Date revised October 2019

Page 6 of 6

---

**15 REGULATORY INFORMATION****15.1 Safety, health and and environmental regulations/legislation specific for the substance or mixture**

Health, safety and environmental details to be shown on label. Ref. Regulation (EC) 1272/2008.

Refer to Section 2.

**15.2 Chemical safety assessment**

A chemical safety assessment has been undertaken on citric acid by our suppliers.

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**16. OTHER INFORMATION**

Changes to Revision 0: References to EU Directive 67/548/EEC and Directive 1999/45/EC deleted.

Revision 2: content reviewed : sole change: new MSDS code inserted.

Abbreviations and acronyms

PBT	Persistent, Bioaccumulative, Toxic
vPvB	very Persistent, very Bioaccumulative

The product information in this Data Sheet is, to the best of Dri-Pak's knowledge, correct as at the date of publication. No warranty is implied with respect to the quality or the specification of the product. The user must satisfy himself/herself that the product is suitable for his/her purpose.

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