

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

Printing date: 13.03.2012

Version-No: 3

Revision: 27.09.2011

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

- **Product identifier**
- **Trade name: Dezcal Descaler**
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation:** Descaler for coffee and other foodservice 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
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- **Further information obtainable from:**

Chemservice GmbH  
Von-Steuben-Straße 13  
D-67549 Worms, Germany  
Tel.: +49 6241-95480-0  
Fax: +49 6241-95480-25  
Email: sds@chemservice-group.com
- **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 Directive 67/548/EEC or Directive 1999/45/EC**

Xi; Irritant  
R36: Irritating to eyes.
- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
- **Label elements**
- **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.  
Observe the general safety regulations when handling chemicals.
- **Code letter and hazard designation of product:**

 Xi Irritant
- **Risk phrases:**

36 Irritating to eyes.
- **Safety phrases:**

2 Keep out of the reach of children.  
22 Do not breathe dust.

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- 25 Avoid contact with eyes.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 46 If swallowed, seek medical advice immediately and show this container or label.

- **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	☒ Xi R36	< 60%
CAS: 5329-14-6 EINECS: 226-218-8 Index number: 016-026-00-0	sulphamidic acid	☒ Xi R36/38 R52/53	< 5%
CAS: 17927-65-0	Aluminium Sulfate	☒ Xi R41	ca. 1%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

### 4 First aid measures

- **Description of first aid measures**
- **General information:**  
Take affected persons out of danger area and lay down.  
Immediately remove any clothing soiled by the product.
- **After inhalation:**  
Supply fresh air; consult doctor in case of complaints.  
Seek immediate medical advice.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
Seek immediate medical advice.
- **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:**  
CO<sub>2</sub>, 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)  
Under certain fire conditions, traces of other toxic gases cannot be excluded.
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**  
Cool endangered receptacles with water spray.

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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.

Avoid formation of dust.

· **Environmental precautions:** Dilute with plenty of water.

· **Methods and material for containment and cleaning up:**

Pick up mechanically.

Ensure adequate ventilation.

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.

Any unavoidable deposit of dust must be regularly removed.

· **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.

Protect from humidity and water.

· **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 dust / smoke / mist.

Immediately remove all soiled and contaminated clothing.

Avoid contact with the eyes and skin.

The usual precautionary measures are to be adhered to when handling chemicals.

· **Respiratory protection:** Not necessary if room is well-ventilated.

· **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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- **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:**

<b>Form:</b>	Solid
<b>Colour:</b>	White
<b>Odour:</b>	Characteristic

**pH-value (10 g/l) at 20°C:** 2.1 - 2.5**Change in condition****Melting point/Melting range:** Not determined.**Boiling point/Boiling range:** 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:** 100.0 %**Other information** No further relevant information available.

### 10 Stability and reactivity

**Reactivity****Chemical stability****Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

**Possibility of hazardous reactions**

Reacts with reducing agents.

Reacts with strong acids and oxidizing agents.

**Conditions to avoid** No further relevant information available.**Incompatible materials:** Strong oxidizing agents**Hazardous decomposition products:** No dangerous decomposition products known.

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### 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)
		11700 mg/kg (Rat)

**5329-14-6 sulphamidic acid**

Oral	LD50	3160 mg/kg (Rat)
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- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.

### 12 Ecological information

- **Toxicity**

**Aquatic toxicity:****77-92-9 citric acid**

EC0 (48h)	10000 mg/l (Bacteria)
LC50 (96h)	440-706 mg/l (Fish)

**Persistence and degradability**

Anorganic product, is not removable from water by biological cleaning process

**Behaviour in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.

**Additional ecological information:****General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**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

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

**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**

R36 Irritating to eyes.

R36/38 Irritating to eyes and skin.

R41 Risk of serious damage to eyes.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**· Department issuing SDS:**

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