



# Dezcal Tablets

## Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Date of issue: 05/28/2018

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Version: 1.0

### SECTION 1: Identification

#### 1.1. Product identifier

Product form : Mixture  
Product name : Dezcal Tablets

#### 1.2. Recommended use and restrictions on use

Recommended use : Descaler

#### 1.3. Supplier

##### Manufacturer

Urnex Brands, LLC  
700 Executive Blvd.  
Elmsford, NY 10523 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: +1 (352) 323-3500

### SECTION 2: Hazard identification

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

##### Classification (GHS-CA)

|                       |      |
|-----------------------|------|
| Acute Tox. 4 (Oral)   | H302 |
| Acute Tox. 4 (Dermal) | H312 |
| Skin Irrit. 2         | H315 |
| Skin Sens. 1          | H317 |
| Eye Irrit. 2A         | H319 |
| STOT SE 3             | H335 |

#### 2.2. GHS Label elements, including precautionary statements

##### GHS-CA labelling

Hazard pictograms (GHS-CA) :



Signal word (GHS-CA) : Warning

Hazard statements (GHS-CA) : H302+H312 - Harmful if swallowed or in contact with skin  
H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.  
H335 - May cause respiratory irritation.

Precautionary statements (GHS-CA) : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product  
P271 - Use only outdoors or in a well-ventilated area.  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.  
P302+P352 - IF ON SKIN: Wash with plenty of water.  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P312 - Call a POISON CENTER or doctor if you feel unwell.  
P330 - Rinse mouth.  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P405 - Store locked up.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

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### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS-CA)

70% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name          | Product identifier  | %       |
|---------------|---------------------|---------|
| Citric acid   | (CAS-No.) 77-92-9   | 30 - 60 |
| Maleic acid   | (CAS-No.) 110-16-7  | 15 - 40 |
| Sulfamic acid | (CAS-No.) 5329-14-6 | 3 - 7   |

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

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

|                                       |   |
|---------------------------------------|---|
| First-aid measures after inhalation   | : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.  |
| First-aid measures after skin contact | : IF ON SKIN: Wash with plenty of Water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.  |
| 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    | : IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. |

### 4.2. Most important symptoms and effects (acute and delayed)

|                                     |   |
|-------------------------------------|---|
| Symptoms/effects after inhalation   | : May cause respiratory irritation.   |
| Symptoms/effects after skin contact | : Harmful in contact with skin. Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. May cause an allergic skin reaction. |
| 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    | : Harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.   |

### 4.3. Immediate medical attention and special treatment, if necessary

|                                   |  |
|-----------------------------------|--|
| Other medical advice or treatment | : 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. Suitable extinguishing media

|                              |   |
|------------------------------|---|
| Suitable extinguishing media | : Use extinguishing media appropriate for surrounding fire. |
|------------------------------|---|

### 5.2. Unsuitable extinguishing media

|                                |                         |
|--------------------------------|-------------------------|
| Unsuitable extinguishing media | : Do not use water jet. |
|--------------------------------|-------------------------|

### 5.3. Specific hazards arising from the hazardous product

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

### 5.4. Special protective equipment and precautions for fire-fighters

|                                |  |
|--------------------------------|--|
| Protection during firefighting | : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). |
|--------------------------------|--|

## SECTION 6: Accidental release measures

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

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

### 6.2. Methods and materials for containment and cleaning up

|                         |  |
|-------------------------|--|
| For containment         | : Contain spill, then place in a suitable container. Minimize dust generation. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE). |
| Methods for cleaning up | : Sweep or shovel spills into appropriate container for disposal. Provide ventilation.   |

### 6.3. Reference to other sections

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

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Avoid generating dust. Good housekeeping is important to prevent accumulation of dust.
- Hygiene measures : Take off contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace. Wash hands, forearms and face thoroughly after handling.

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

- Storage conditions : Keep out of the reach of children. Keep container tightly closed. Store in a well-ventilated place. Store locked up.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station.
- Environmental exposure controls : Avoid release to the environment.

#### 8.3. Individual protection measures/Personal protective equipment

##### Hand protection:

Wear suitable gloves resistant to chemical penetration

##### 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.

##### 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 : Solid
- Appearance : White granules / Powder
- Colour : White
- Odour : None
- Odour threshold : No data available
- pH : 1.88 (10% solution) Acid Reserve: 6.65g
- Relative evaporation rate (butylacetate=1) : No data available
- Relative evaporation rate (ether=1) : No data available
- Melting point : No data available
- Freezing point : No data available
- Boiling point : No data available
- Flash point : Not applicable
- Auto-ignition temperature : No data available
- Decomposition temperature : No data available
- Flammability (solid, gas) : Not flammable
- Vapour pressure : No data available
- Vapour pressure at 50 °C : No data available
- Relative density : 0.75
- Solubility : No data available
- Partition coefficient n-octanol/water : No data available
- Viscosity, kinematic : No data available

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Explosive limits : No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity : No dangerous reactions known under normal conditions of use.  
Chemical stability : Stable under normal conditions.  
Possibility of hazardous reactions : No dangerous reactions known under normal conditions of use.  
Conditions to avoid : Heat. Incompatible materials.  
Incompatible materials : Strong bases.  
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) : Harmful if swallowed.  
Acute toxicity (dermal) : Harmful in contact with skin.  
Acute toxicity (inhalation) : Not classified.

|                                 |   |
|---------------------------------|---|
| ATE CA (oral)                   | 1514.18 mg/kg bodyweight  |
| ATE CA (dermal)                 | 1578.109 mg/kg bodyweight   |
| Unknown acute toxicity (GHS-CA) | 70% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) |

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

LD50 oral rat : 3 g/kg

#### 2-Butenedioic acid (2Z)- (110-16-7)

LD50 oral rat : 708 mg/kg  
LD50 oral : 708 mg/kg  
LD50 dermal rabbit : 1560 mg/kg  
LD50 dermal : 1560 mg/kg  
LC50 inhalation rat : > 720 mg/m<sup>3</sup> (Exposure time: 1 h)

#### Sulfamic acid (5329-14-6)

LD50 oral rat : 1450 mg/kg

Skin corrosion/irritation : Causes skin irritation.  
pH: 1.88 (10% solution) Acid Reserve: 6.65g  
Serious eye damage/irritation : Causes serious eye irritation.  
pH: 1.88 (10% solution) Acid Reserve: 6.65g  
Respiratory or skin sensitization : May cause an allergic skin reaction.  
Germ cell mutagenicity : Not classified.  
Carcinogenicity : Not classified.  
Reproductive toxicity : Not classified.  
STOT-single exposure : May cause respiratory irritation.  
STOT-repeated exposure : Not classified.  
Aspiration hazard : Not classified.  
Symptoms/effects after inhalation : May cause respiratory irritation.  
Symptoms/effects after skin contact : Harmful in contact with skin. Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. May cause an allergic skin reaction.  
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 : 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.

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

LC50 fish 1 : 1516 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])

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| <b>2-Butenedioic acid (2Z)- (110-16-7)</b> |   |
|--|---|
| LC50 fish 1                                | 75 mg/l   |
| EC50 Daphnia 1                             | 250 - 400 mg/l (Exposure time: 48 h - Species: Daphnia magna) |

| <b>Sulfamic acid (5329-14-6)</b> |   |
|----------------------------------|---|
| LC50 fish 1                      | 14.2 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |

### 12.2. Persistence and degradability

| <b>Dezcal Tablets</b>         |                  |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

### 12.3. Bioaccumulative potential

| <b>Dezcal Tablets</b>     |                  |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |

| <b>Citric acid (77-92-9)</b>          |                  |
|---------------------------------------|------------------|
| Partition coefficient n-octanol/water | -1.72 (at 20 °C) |

| <b>2-Butenedioic acid (2Z)- (110-16-7)</b> |              |
|--|--------------|
| BCF fish 1                                 | 10           |
| Partition coefficient n-octanol/water      | -0.79 - 0.32 |

### 12.4. Mobility in soil

| <b>Citric acid (77-92-9)</b>          |                  |
|---------------------------------------|------------------|
| Partition coefficient n-octanol/water | -1.72 (at 20 °C) |

| <b>2-Butenedioic acid (2Z)- (110-16-7)</b> |              |
|--|--------------|
| Partition coefficient n-octanol/water      | -0.79 - 0.32 |

### 12.5. Other adverse effects

Ozone : Not classified.  
Other information : No other effects known.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. The generation of waste should be avoided or minimized wherever possible.

## SECTION 14: Transport information

### 14.1. Basic shipping description

In accordance with TDG

### Transportation of Dangerous Goods

Not regulated for transport

### 14.2. Transport information/DOT

No additional information available

### 14.3. Air and sea transport

No additional information available

## SECTION 15: Regulatory information

### 15.1. National regulations

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

## SECTION 16: Other information

Date of issue : 05/28/2018  
Revision date : 05/28/2018  
Other information : None.  
Prepared by : Nexreg Compliance Inc.  
[www.Nexreg.com](http://www.Nexreg.com)



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