

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

Printing date: 14.08.2014

Version No.: 3

Revision: 14.08.2014

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

- **Product identifier**
- **Trade name: Puro Coffee Descaling Tablets**
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the preparation: Descaler for Coffee and other food service equipments**
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**

| | |
|------------------------|-----------------------------------|
| Urnex Brands, Inc. | Urnex Brands, Inc. |
| 700 Executive Blvd. | 29 Harley Street, London, W1G 9QR |
| Elmsford, NY 10523 USA | United Kingdom |
| Phone: +1-914-963-2042 | Tel: +44 (0)20 7927 6881 |
| Fax: +1-914-963-2145 | |
| Email: info@urnex.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 Regulation (EC) No 1272/2008**
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
STOT SE 3 H335 May cause respiratory irritation.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
Xi; Irritant
R36/37/38: Irritating to eyes, respiratory system and skin.
Xi; Sensitising
R43: May cause sensitisation by skin contact.
- **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 Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.

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Hazard pictograms



GHS07

· **Signal word** Warning

· **Hazard-determining components of labelling:**

maleic acid

· **Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

· **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/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.

P321 Specific treatment (see on this label).

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **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 ◊ Eye Irrit. 2, H319 | < 50% |
| CAS: 110-16-7 EINECS: 203-742-5 Index number: 607-095-00-3 | maleic acid ☒ Xn R22; ☒ Xi R36/37/38; ☒ Xi R43 ◊ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 | < 24.5% |
| CAS: 5329-14-6 EINECS: 226-218-8 Index number: 016-026-00-0 | subphamidic acid ☒ Xi R36/38 ◊ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412 | ca. 10% |

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· **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 and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
- **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.
Remove contact lenses, if present and easy to do. Continue rinsing.
- **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.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
In case of fire, the following can be released:
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.
Avoid formation of dust.
- **Environmental precautions:** Dilute with plenty of water.
- **Methods and material for containment and cleaning up:**
Pick up mechanically.

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- *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.*
- **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*

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· **Body protection:** Protective work clothing

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

| | |
|---------------------------|-----------------|
| · Form: | Solid |
| · Colour: | White |
| · Odour: | Characteristic |
| · Odour threshold: | Not determined. |

· **pH-value (10 g/l) at 20°C:** 2 - 2.5

· **Change in condition**

| | |
|---------------------------------------|-----------------|
| · Melting point/Melting range: | Not determined. |
| · Boiling point/Boiling range: | Not determined. |

· **Flash point:** Not determined.

· **Flammability (solid, gaseous):** Not determined.

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**

| | |
|-----------------|-----------------|
| · Lower: | Not determined. |
| · Upper: | Not determined. |

· **Density:** Not determined.

· **Solubility in / Miscibility with water:** Soluble.

· **Partition coefficient (n-octanol/water):** Not determined.

· **Solvent content:**

· **Organic solvents:** 0.0 %

· **Solids content:** 100.0 %

· **Other information** No further relevant information available.

10 Stability and reactivity

· **Reactivity**

· **Chemical stability** 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
Reducing agent
Strong acids and bases

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· **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) |
| | | 11700 mg/kg (Rat) |

110-16-7 maleic acid

| | | |
|--------|------|---------------------|
| Oral | LD50 | 708 mg/kg (Rat) |
| Dermal | LD50 | 1560 mg/kg (Rabbit) |

5329-14-6 sulphamidic acid

| | | |
|------|------|------------------|
| Oral | LD50 | 3160 mg/kg (Rat) |
|------|------|------------------|

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Irritant

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** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow product 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.

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13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:** Must be specially treated adhering to official regulations.
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

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 II 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

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008**
- **Precautionary statements**
 - Avoid breathing dust/fume/gas/mist/vapours/spray.
 - Wear protective gloves/protective clothing/eye protection/face protection.
 - Wash thoroughly after handling.
 - Use only outdoors or in a well-ventilated area.
 - Contaminated work clothing should not be allowed out of the workplace.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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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**

- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H400 Very toxic to aquatic life.
- H412 Harmful to aquatic life with long lasting effects.
- R21/22 Harmful in contact with skin and if swallowed.
- R22 Harmful if swallowed.
- R34 Causes burns.
- R36 Irritating to eyes.
- R36/37/38 Irritating to eyes, respiratory system and skin.
- R36/38 Irritating to eyes and skin.
- R43 May cause sensitisation by skin contact.
- R50 Very toxic to aquatic organisms.
- R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **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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