

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- **1.1 Product identifier**
- **Trade name:** *Biocaf Coffee Tablets*
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation:** *Coffee/Esspresso machine/equipment cleaner*
- **Uses advised against:** *No further relevant information available.*
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**

|                               |   |
|-------------------------------|---|
| <i>Urnex Brands, Inc.</i>     | <i>Urnex Brands, Inc.</i>                 |
| <i>700 Executive Blvd.</i>    | <i>Olympisch Stadion 24-28</i>            |
| <i>Elmsford, NY 10523 USA</i> | <i>1076 DE Amsterdam, The Netherlands</i> |
| <i>Phone: +1-914-963-2042</i> | <i>NL Tel. +31.20.854.6030</i>            |
| <i>Fax: +1-914-963-2145</i>   |   |
| <i>Email: info@urnex.com</i>  |   |
- **Further information obtainable from:**

|                               |  |
|-------------------------------|--|
| <i>Urnex Brands, Inc.</i>     |  |
| <i>700 Executive Blvd.</i>    |  |
| <i>Elmsford, NY 10523 USA</i> |  |
| <i>Phone: +1-914-963-2042</i> |  |
| <i>Fax: +1-914-963-2145</i>   |  |
| <i>Email: info@urnex.com</i>  |  |
- **1.4 Emergency telephone number:**  
*Tel.: International: +1 (352) 323-3500*


**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
  - **Classification according to Regulation (EC) No 1272/2008**  
*Eye Irrit. 2 H319 Causes serious eye irritation.*

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  - **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.*

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  - **2.2 Label elements**
  - **Labelling according to Regulation (EC) No 1272/2008**  
*The product is classified and labelled according to the CLP regulation.*
  - **Hazard pictograms**
- 

GHS07
- **Signal word** *Warning*
  - **Hazard statements**  
*H319 Causes serious eye irritation.*

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**Precautionary statements**

- P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 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.  
 P337+P313 If eye irritation persists: Get medical advice/attention.

**2.3 Other hazards**
**Results of PBT and vPvB assessment**

- **PBT:** Not determined
- **vPvB:** Not determined

**SECTION 3: Composition/information on ingredients**
**3.2 Chemical characterisation: Mixtures**
**Dangerous components:**

|  |  |       |
|--|--|-------|
| CAS: 497-19-8<br>EINECS: 207-838-8<br>Index number: 011-005-00-2 | sodium carbonate<br>☒ Xi R36<br>◊ Eye Irrit. 2, H319   | < 40% |
| CAS: 15630-89-4<br>EINECS: 239-707-6                             | disodium carbonate, compound with hydrogenperoxide (2:3)<br>☒ Xn R22; ☒ Xi R41; ☒ O R8<br>◊ Ox. Liq. 2, H272; ◊ Eye Dam. 1, H318; ◊ Acute Tox. 4, H302 | < 25% |
| CAS: 77-92-9<br>EINECS: 201-069-1                                | citric acid<br>☒ Xi R36<br>◊ Eye Irrit. 2, H319  | < 15% |
| CAS: 25322-68-3<br>NLP: 500-038-2                                | Polyethylene glycol<br>◊ STOT SE 3, H335   | < 15% |
| CAS: 68955-19-1<br>EINECS: 273-257-1                             | Sulfuric acid, mono-C12-18-alkyl esters, sodium salts<br>☒ Xi R38-41<br>◊ Eye Dam. 1, H318; ◊ Skin Irrit. 2, H315; ◊ Aquatic Chronic 3, H412           | < 3%  |

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

**4.1 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.
- **After skin contact:** Immediately rinse with water.
- **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, 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.  
 Seek immediate medical advice.

- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

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- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 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.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 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
- **5.3 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.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation.  
Wear protective clothing.  
Avoid formation of dust.
- **6.2 Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Ensure adequate ventilation.  
Dispose of the material collected according to regulations.
- **6.4 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.

### SECTION 7: Handling and storage

- **7.1 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.
- **7.2 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 oxidising agents.
- **Further information about storage conditions:**  
Store under lock and key and out of the reach of children.  
Protect from humidity and water.

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· **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 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.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Do not inhale dust / smoke / mist.  
Avoid contact with the eyes.  
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Not necessary if room is well-ventilated.
- **Protection of hands:**  
No chemical-protective gloves required.  
Avoid direct contact with the chemical/ the product/ the preparation by organisational measures.  
To avoid skin problems reduce the wearing of gloves to the required minimum.  
Check protective gloves prior to each use for their proper condition.  
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  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **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

### SECTION 9: Physical and chemical properties

- **9.1 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:** 10.0 - 10.25
- **Change in condition**

|                              |                 |
|------------------------------|-----------------|
| Melting point/Melting range: | Not determined. |
| Boiling point/Boiling range: | Not determined. |
- **Flash point:** Not determined.
- **Flammability (solid, gaseous):** Not determined.

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|   |  |
|---|--|
| · <b>Ignition temperature:</b>                    | <i>Not determined.</i>                               |
| · <b>Decomposition temperature:</b>               | <i>Not determined.</i>                               |
| · <b>Self-igniting:</b>                           | <i>Product is not selfigniting.</i>                  |
| · <b>Danger of explosion:</b>                     | <i>Product does not present an explosion hazard.</i> |
| · <b>Explosion limits:</b>                        |  |
| Lower:  | <i>Not determined.</i>                               |
| Upper:  | <i>Not determined.</i>                               |
| · <b>Oxidising properties</b>                     | <i>No</i>  |
| · <b>Vapour pressure:</b>                         | <i>Not applicable.</i>                               |
| · <b>Density:</b>                                 | <i>Not determined.</i>                               |
| · <b>Relative density</b>                         | <i>Not determined.</i>                               |
| · <b>Vapour density</b>                           | <i>Not applicable.</i>                               |
| · <b>Evaporation rate</b>                         | <i>Not applicable.</i>                               |
| · <b>Solubility in / Miscibility with water:</b>  | <i>Soluble.</i>                                      |
| · <b>Partition coefficient (n-octanol/water):</b> | <i>Not determined.</i>                               |
| · <b>Viscosity:</b>                               |  |
| Dynamic:  | <i>Not applicable.</i>                               |
| Kinematic:  | <i>Not applicable.</i>                               |
| · <b>9.2 Other information</b>                    | <i>No further relevant information available.</i>    |

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** *No further relevant information available.*
- **10.2 Chemical stability** *No decomposition if used and stored according to specifications.*
- **10.3 Possibility of hazardous reactions** *No dangerous reactions known.*
- **10.4 Conditions to avoid** *No further relevant information available.*
- **10.5 Incompatible materials:**  
*Reacts with strong acids and oxidising agents.*  
*Reducing agent*
- **10.6 Hazardous decomposition products:** *No dangerous decomposition products known.*

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

|  |             |                           |
|--|-------------|---------------------------|
| · <b>LD/LC50 values relevant for classification:</b>                       |             |                           |
| <b>497-19-8 sodium carbonate</b>   |             |                           |
| <i>Oral</i>  | <i>LD50</i> | <i>4090 mg/kg (Rat)</i>   |
| <b>15630-89-4 disodium carbonate, compound with hydrogenperoxide (2:3)</b> |             |                           |
| <i>Oral</i>  | <i>LD50</i> | <i>1034 mg/kg (Rat)</i>   |
| <b>77-92-9 citric acid</b>   |             |                           |
| <i>Oral</i>  | <i>LD50</i> | <i>5040 mg/kg (Mouse)</i> |
|  |             | <i>11700 mg/kg (Rat)</i>  |

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**68955-19-1 Sulfuric acid, mono-C12-18-alkyl esters, sodium salts**

|        |      |   |
|--------|------|---|
| Oral   | LD50 | 3350 mg/kg (Mouse)<br>>2000 mg/kg (Rat) |
| Dermal | LD50 | >10000 mg/kg (Rabbit)                   |

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitisation:** No sensitising effects known.
- **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
- **Toxicokinetics, metabolism and distribution** No further relevant information available.
- **Acute effects (acute toxicity, irritation and corrosivity)** No further relevant information available.
- **Repeated dose toxicity** No further relevant information available.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
 No further relevant information available.

**SECTION 12: Ecological information**

 · **12.1 Toxicity**

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

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

 · **12.2 Persistence and degradability**

Anorganic product, is not eliminable from water by means of biological cleaning processes.  
 The organic portion of the product is biodegradable.

 · **12.3 Bioaccumulative potential** No further relevant information available.

 · **12.4 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.

 · **12.5 Results of PBT and vPvB assessment**

- **PBT:** Not determined
- **vPvB:** Not determined

 · **12.6 Other adverse effects** No further relevant information available.

**SECTION 13: Disposal considerations**

 · **13.1 Waste treatment methods**

- **Recommendation:** Smaller quantities can be disposed of with household waste.

 · **European waste catalogue**

|           |  |
|-----------|--|
| 20 01 29* | detergents containing dangerous substances |
|-----------|--|

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- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### SECTION 14: Transport information

|  |  |
|--|--|
| · <b>14.1 UN-Number</b><br>· <b>ADR, IMDG, IATA</b>                                    | Void   |
| · <b>14.2 UN proper shipping name</b><br>· <b>ADR, IMDG, IATA</b>                      | Void   |
| · <b>14.3 Transport hazard class(es)</b><br>· <b>ADR, IMDG, IATA</b><br>· <b>Class</b> | Void   |
| · <b>14.4 Packing group</b><br>· <b>ADR, IMDG, IATA</b>                                | Void   |
| · <b>14.5 Environmental hazards:</b><br>· <b>Marine pollutant:</b>                     | No   |
| · <b>14.6 Special precautions for user</b>   | Not applicable.                                      |
| · <b>14.7 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. |
| · <b>UN "Model Regulation":</b>  | -  |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
No further relevant information available.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 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**  
H272 May intensify fire; oxidiser.  
H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H412 Harmful to aquatic life with long lasting effects.
- **R22 Harmful if swallowed.**
- **R36 Irritating to eyes.**
- **R38 Irritating to skin.**
- **R41 Risk of serious damage to eyes.**

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R8 Contact with combustible material may cause fire.

**· Abbreviations and acronyms:**

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

MARPOL: (from Marine Pollutant) International Convention for the Prevention of Marine Pollution from Ships

IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

UN: United Nations (also UNO: United Nations Organization)

NOEC: No Observed Effect Concentration

OECD: Organisation for Economic Co-operation and Development

ASTM: American Society for Testing and Materials

WAF: Water Accommodated Fraction

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 Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Ox. Liq. 2: Oxidising Liquids, Hazard Category 2

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

GB