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

1.1 Product identifier

· Trade name: Biocaf Coffee Equipment Cleaning Powder

1.2 Relevant identified uses of the substance or mixture and uses advised against

· Application of the substance / the preparation: Coffee/Espresso machine/equipment cleaner

· Uses advised against: No further relevant information available.

1.3 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

· Further information obtainable from:
  Urnex Brand, LLC.
  700 Executive Blvd.
  Elmsford, NY 10523 USA
  Phone: +1-914-963-2042
  Fax: +1-914-963-2145
  Email: info@urnex.com

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.

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.

· 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

(Contd. on page 2)
SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

| Dangerous components: |  
|-----------------------|-------------------------------------------------|
| CAS: 497-19-8         | sodium carbonate                                 |
| EINECS: 207-838-8     | Eye Irrit. 2, H319                               |
| Index number: 011-005-00-2 | < 50%                        |
| CAS: 15630-89-4       | disodium carbonate, compound with hydrogenperoxide (2:3) |
| EINECS: 239-707-6     | Ox. Liq. 2, H272; Eye Dam. 1, H318; Acute Tox. 4, H302 |
|                       | < 24%                                           |

- Regulation (EC) No 648/2004 on detergents / Labelling for contents

- oxygen-based bleaching agents 15 - 30%
- non-ionic surfactants < 5%

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General information:
  - Take affected persons out of danger area and lay down.
  - In case of irregular breathing or respiratory arrest provide artificial respiration.

- After inhalation:
  - Supply fresh air.

- After skin contact:
  - Immediately rinse with water.

- After eye contact:
  - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - Seek medical treatment.

- After swallowing:
  - Rinse out mouth and then drink plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

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:
  - 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

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
  - Carbon dioxide

5.3 Advice for firefighters

- Protective equipment: Wear self-contained respiratory protective device.
- Additional information
  - Cool endangered receptacles with water spray.

(Contd. on page 3)
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.

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**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td>Solid</td>
</tr>
<tr>
<td><strong>Form</strong></td>
<td>Solid</td>
</tr>
<tr>
<td><strong>Colour</strong></td>
<td>White</td>
</tr>
<tr>
<td><strong>Odour</strong></td>
<td>Characteristic</td>
</tr>
<tr>
<td><strong>Odour threshold</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>pH-value (10 g/l) at 20 °C:</strong></td>
<td>10.45 - 11.0</td>
</tr>
<tr>
<td><strong>Change in condition</strong></td>
<td></td>
</tr>
<tr>
<td>Melting point/Melting range:</td>
<td>Not determined</td>
</tr>
<tr>
<td>Boiling point/Boiling range:</td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Flash point:</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Flammability (solid, gaseous):</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Ignition temperature:</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Decomposition temperature:</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Self-igniting:</strong></td>
<td>Product is not selfigniting</td>
</tr>
<tr>
<td><strong>Danger of explosion:</strong></td>
<td>Product does not present an explosion hazard.</td>
</tr>
<tr>
<td><strong>Explosion limits:</strong></td>
<td></td>
</tr>
<tr>
<td>Lower</td>
<td>Not determined</td>
</tr>
<tr>
<td>Upper</td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Oxidising properties</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>Vapour pressure:</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Density:</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Relative density</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Vapour density</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Solubility in / Miscibility with water:</strong></td>
<td>Soluble</td>
</tr>
<tr>
<td><strong>Partition coefficient (n-octanol/water):</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>Dynamic</td>
</tr>
</tbody>
</table>
**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** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:**
  - **CAS: 497-19-8 sodium carbonate**
    - Oral LD50 4090 mg/kg (Rat)
  - **CAS: 15630-89-4 disodium carbonate, compound with hydrogenperoxide (2:3)**
    - Oral LD50 1034 mg/kg (Rat)

- **Primary irritant effect:**
  - **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
  - **Serious eye damage/irritation** Causes serious eye irritation.
  - **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
  - **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 (carcinogenity, mutagenicity and toxicity for reproduction)** No further relevant information available.
  - **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
  - **Carcinogenicity** Based on available data, the classification criteria are not met.
  - **Reproductive toxicity** Based on available data, the classification criteria are not met.
  - **STOT-single exposure** Based on available data, the classification criteria are not met.
  - **STOT-repeated exposure** Based on available data, the classification criteria are not met.
  - **Aspiration hazard** Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**

- **12.1 Toxicity** No further relevant information available.
- **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.
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 hazardous substances

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

14.1 UN-Number
ADR, RID, ADN, IMDG, IATA Void

14.2 UN proper shipping name
ADR, RID, ADN, IMDG, IATA Void

14.3 Transport hazard class(es)
ADR, RID, ADN, IMDG, IATA Class Void

14.4 Packing group
ADR, RID, ADN, IMDG, IATA Void

14.5 Environmental hazards:
Marine pollutant: No

14.6 Special precautions for user
Not applicable.

14.7 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": Void

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Directive 2012/18/EU
Named dangerous substances - ANNEX I None of the ingredients is listed.

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.

(Contd. on page 7)
· **Relevant phrases**
  
  H272 May intensify fire; oxidiser.
  H302 Harmful if swallowed.
  H318 Causes serious eye damage.
  H319 Causes serious eye irritation.

· **Department issuing SDS:**
  Chemservice GmbH
  Herrnsheimer Hauptstrasse 1b
  D-67550 Worms
  Tel.: +49 (0)6241-95480-0
  Fax: +49 (0)6241-95480-25
  Email: sds@chemservice-group.com

· **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
  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: Oxidizing liquids – Category 2
  Acute Tox. 4: Acute toxicity – Category 4
  Eye Dam. 1: Serious eye damage/eye irritation – Category 1
  Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

· **Data compared to the previous version altered.**