

**Safety Data Sheet**
acc. to OSHA HCS

Printing date 01/24/2018

Version No: 2

Reviewed on 01/24/2018

1 Identification

- **Product identifier**
- **Trade name:** Puro Espresso Machine Cleaner
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture** Espresso machine cleaning tablets
- **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	
- **Information department:**

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

2 Hazard(s) identification

- **Classification of the substance or mixture**
Eye Irrit. 2 H319 Causes serious eye irritation.
- **Label elements**
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **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..
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.

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- Classification system:
- NFPA ratings (scale 0 - 4)



Health = 1
Fire = 0
Reactivity = 0

- HMIS ratings (scale 0 - 4)



Health = 1
Fire = 0
Reactivity = 0

- Other hazards
- Results of PBT and vPvB assessment
- PBT: Not determined
- vPvB: Not determined

3 Composition/information on ingredients

- Chemical characterization: Mixtures

- Dangerous components:

497-19-8	sodium carbonate	< 3.5%
15630-89-4	disodium carbonate, compound with hydrogenperoxide (2:3)	< 3.5%

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.
- After skin contact:
 - Immediately rinse with water.
 - If skin irritation continues, consult a doctor.
- 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.
 - Seek immediate medical advice.
- 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.

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5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire fighting measures that suit the environment.
- **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
- **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.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Pick up mechanically.
Ensure adequate ventilation.
Dispose of the collected material 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

- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Any deposit of dust which cannot be avoided must be regularly removed.
- **Information about protection against explosions and fires:** 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:**
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.

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8 Exposure controls/personal protection

- Control parameters

- Components with limit values that require monitoring at the workplace:

25322-68-3 Polyethylene glycol

WEEL	Long-term value: 10 mg/m ³ (H); MW>200
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- Additional Occupational Exposure Limit Values for possible hazards during processing:

PEL: 15* 5** mg/m³

* total dust **respirable fraction

REL: 10* 5** mg/m³

* total dust **respirable fraction

TLV: 10 mg/m³

Dust Value

- Exposure controls

- Personal protective equipment:

- General protective and hygienic measures:

Do not inhale dust / smoke / mist.

Avoid contact with the eyes and skin.

The usual precautionary measures for handling chemicals should be followed.

- Breathing equipment: Not necessary if room is well-ventilated.

- Protection of hands:



Protective gloves

Avoid direct contact with the chemical/ the product/ the preparation by organizational 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

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

> 480 min

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- For the permanent contact gloves made of the following materials are suitable: Nitrile rubber, NBR

- As protection from splashes gloves made of the following materials are suitable: Natural rubber, NR

- Eye protection: Safety glasses

- Body protection: Protective work clothing

9 Physical and chemical properties

- Information on basic physical and chemical properties

- General Information

- Appearance:

Form: Solid

Color: White

Odor: Characteristic

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· Odour threshold:	Not determined.
· pH-value (10 g/l) at 20 °C (68 °F):	11.2
· Change in condition	
Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	Not determined.
· Flash point:	Not determined.
· Flammability (solid, gaseous):	Not determined.
· Ignition temperature:	Not determined.
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Oxidizing properties	No
· Vapor pressure:	Not applicable.
· Density:	Not determined.
· Relative density	Not determined.
· Vapour density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with Water:	Soluble.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Other information	No further relevant information available.

10 Stability and reactivity

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

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11 Toxicological information

- Information on toxicological effects
- Acute toxicity:

· LD/LC50 values that are relevant for classification:		
497-19-8 sodium carbonate		
Oral	LD50	4090 mg/kg (Rat)
15630-89-4 disodium carbonate, compound with hydrogenperoxide (2:3)		
Oral	LD50	1034 mg/kg (Rat)

- Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

- Carcinogenic categories

· IARC (International Agency for Research on Cancer)
None of the ingredients is listed.
· NTP (National Toxicology Program)
None of the ingredients is listed.
· OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients is listed.

12 Ecological information

- Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability
Anorganic product, is not eliminable from water by means of biological cleaning processes.
The organic portion of the product is biodegradable.
- Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:
- General notes:
Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow product to reach ground water, water course or sewage system.

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- 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 packagings
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

· UN-Number	Void
· DOT, ADR, IMDG, IATA	Void
· UN proper shipping name	Void
· DOT, ADR, IMDG, IATA	Void
· Transport hazard class(es)	Void
· DOT, ADR, IMDG, IATA	Void
· Class	Void
· Packing group	Void
· DOT, ADR, IMDG, IATA	Void
· Environmental hazards:	No
· Marine pollutant:	No
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	No further relevant information available.
· 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
- Sara

· Section 355 (extremely hazardous substances):
None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):
All ingredients are listed.

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· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Cancerogenity categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

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.

· 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
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- ACGIH: American Conference of Governmental Industrial Hygienists
- 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)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

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

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