

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

Printing date: 26.03.2014

Version No: 5

Revision: 22.01.2014

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

- **1.1 Product identifier**
- **Trade name: Puro Milk System Cleaning Liquid**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the preparation: Milk system cleaner**
- **1.3 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	
- **Further information obtainable from:**

Urnex Brands, Inc.  
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.: 800-424-9300 (USA)  
Tel.: 001-703-527-3887 (INTERNATIONAL COLLECT ACCEPTED)

**SECTION 2: Hazards identification**


- **2.1 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.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

Xi; Irritant  
R36/38: Irritating to eyes and skin.
- **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.
- **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**

(Contd. on page 2)

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

Printing date: 26.03.2014

Version No: 5

Revision: 22.01.2014

**Trade name: Puro Milk System Cleaning Liquid**

(Contd. of page 1)

· **Hazard statements**

H315 Causes skin irritation.

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.

P310 Immediately call a POISON CENTER/doctor/...

P362 Take off contaminated clothing.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P302+P352 **IF ON SKIN:** Wash with plenty of water/...

· **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 characterization: Mixtures**

· **Dangerous components:**

CAS: 9002-92-0 NLP: 500-002-6	Ethoxylated lauryl alcohol ☒ Xn R22; ☒ Xi R38-41 ☒ Eye Dam. 1, H318; ☒ Acute Tox. 4, H302; Skin Irrit. 2, H315	< 3%
CAS: 1310-73-2 EINECS: 215-185-5 Index number: 011-002-00-6	sodium hydroxide ☒ CR35 ☒ Met. Corr.1, H290; Skin Corr. 1A, H314	< 1%

· **Additional information:** For the wording of the listed risk 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.

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.

Remove contact lenses, if present and easy to do. Continue rinsing.

Call a doctor immediately.

· **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.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

GB

(Contd. on page 3)

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

Printing date: 26.03.2014

Version No: 5

Revision: 22.01.2014

**Trade name: Puro Milk System Cleaning Liquid**

(Contd. of page 2)

### **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 (CO)*
- **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.*
- **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:**  
*Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
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.  
Prevent formation of aerosols.*
- **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 oxidizing agents.*
- **Further information about storage conditions:**  
*Keep container tightly sealed.  
Store under lock and key and out of the reach of children.*
- **7.3 Specific end use(s)** *No further relevant information available.*

GB

(Contd. on page 4)

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

Printing date: 26.03.2014

Version No: 5

Revision: 22.01.2014

**Trade name: Puro Milk System Cleaning Liquid**

(Contd. of page 3)

**SECTION 8: Exposure controls/personal protection**

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

**1310-73-2 sodium hydroxide (< 3%)**

WEL Short-term value: 2 mg/m<sup>3</sup>

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

*Do not inhale gases / fumes / aerosols.*

*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:**



*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*

**SECTION 9: Physical and chemical properties**

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

· **General Information**

· **Appearance:**

**Form:** *Fluid*

**Colour:** *Light blue*

· **Odour:** *Characteristic*

· **Odour threshold:** *Not determined.*

· **pH-value (10 g/l) at 20 °C:** *11.0 - 11.45*

· **Change in condition**

**Melting point/Melting range:** *Not determined.*

**Boiling point/Boiling range:** *Not determined.*

(Contd. on page 5)

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

Printing date: 26.03.2014

Version No: 5

Revision: 22.01.2014

**Trade name: Puro Milk System Cleaning Liquid**

(Contd. of page 4)

· <b>Flash point:</b>	<i>Not determined.</i>
· <b>Flammability (solid, gaseous):</b>	<i>Not applicable.</i>
· <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>Oxidizing properties</b>	<i>No</i>
· <b>Vapour pressure:</b>	<i>Not determined.</i>
· <b>Density:</b>	<i>Not determined.</i>
· <b>Relative density</b>	<i>Not determined.</i>
· <b>Vapour density</b>	<i>Not determined.</i>
· <b>Evaporation rate</b>	<i>Not determined.</i>
· <b>Solubility in / Miscibility with water:</b>	<i>Fully miscible.</i>
· <b>Partition coefficient (n-octanol/water):</b>	<i>Not determined.</i>
· <b>Viscosity:</b>	
Dynamic:	<i>Not determined.</i>
Kinematic:	<i>Not determined.</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:** *No further relevant information available.*
- **10.6 Hazardous decomposition products:** *No dangerous decomposition products known.*

### SECTION 11: Toxicological information

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

· **LD/LC50 values relevant for classification:**

**9002-92-0 Ethoxylated lauryl alkohol**

Oral LD50 8600 mg/kg (Rat)

**1310-73-2 sodium hydroxide**

Oral LD50 2000 mg/kg (Rat)

- **Primary irritant effect:**
- **on the skin:** *Irritant to skin and mucous membranes.*
- **on the eye:** *Strong irritant with the danger of severe eye injury.*
- **Sensitization:** *No sensitizing effects known.*

(Contd. on page 6)

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

Printing date: 26.03.2014

Version No: 5

Revision: 22.01.2014

**Trade name: Puro Milk System Cleaning Liquid**

(Contd. of page 5)

· **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:**

**64-02-8 tetrasodium ethylenediaminetetraacetate**

EC50 (24h) 610 mg/L (Daphnia)

EC50 (48h) > 100 mg/L (Daphnia)

LC50 (96h) 486 mg/L (Fish)

· **12.2 Persistence and degradability** No further relevant information available.

· **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 2 (German Regulation) (Self-assessment): 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.

· **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, IMDG, IATA** Void

· **14.2 UN proper shipping name**

· **ADR, IMDG, IATA** Void

(Contd. on page 7)

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

Printing date: 26.03.2014

Version No: 5

Revision: 22.01.2014

**Trade name: Puro Milk System Cleaning Liquid**

(Contd. of page 6)

· <b>14.3 Transport hazard class(es)</b>	
· <b>ADR, IMDG, IATA</b>	
· <b>Class</b>	Void
· <b>14.4 Packing group</b>	
· <b>ADR, IMDG, IATA</b>	Void
· <b>14.5 Environmental hazards:</b>	
· <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**

- H290 May be corrosive to metals.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- R22 Harmful if swallowed.
- R35 Causes severe burns.
- R38 Irritating to skin.
- R41 Risk of serious damage to eyes.

· **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)
- PBT: persistent, bioaccumulative and toxic
- vPvB: very persistent and very bioaccumulative
- NOEC: No Observed Effect Concentration
- OECD: Organisation for Economic Co-operation and Development

(Contd. on page 8)

GB

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

Printing date: 26.03.2014

Version No: 5

Revision: 22.01.2014

**Trade name: Puro Milk System Cleaning Liquid**

(Contd. of page 7)

*ASTM: American Society for Testing and Materials*

*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*

*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*

*Met. Corr. 1: Corrosive to metals, Hazard Category 1*

*Acute Tox. 4: Acute toxicity, Hazard Category 4*

*Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A*

*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*

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