

**SAFETY DATA SHEET**  
**PULY MILK VERDE® liquid**

**1. IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/ENTERPRISE**

**1.1 PRODUCT IDENTIFIER**

Commercial name **PULY MILK VERDE® liquid**

**1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST**

steam wand and milk frother cleaner, for milk and coffee residues

**Uses advised against:** do not use for purposes other than those listed

**1.3 INFORMATION ON THE SUPPLIER OF THE SAFETY DATA SHEET**

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**CONTACT US:**

e-mail: info@asachimici.com

**1.4 EMERGENCY TELEPHONE NUMBER**

Milan Niguarda Hospital - National poisons centre - Ph. 02 66101029 - Rome Policlinico Gemelli - National poisons centre - Ph. 06 3054343

**2 HAZARDS IDENTIFICATION**

**2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE**

**REGULATION (EC) No. 1272/2008 (CLP)**

Not classified

**SIGNIFICANT ADVERSE EFFECTS**

As for the environmental impact, it is not specific cause of significant hazards under normal conditions of use.

**2.2 LABEL ELEMENTS**

Label compliant with EC Regulation no. 1272/2008

**HAZARD PICTOGRAMS**

**WARNINGS**

No warnings

**HAZARD STATEMENTS**

No known significant effects or critical hazards

**PRECAUTIONS**

(P102 Keep out of the reach of children.)

(P103 Read the label before use.)

(P101 If medical advice is needed, make available the container or label.)

**2.3 OTHER HAZARDS**

The mixture does not meet the criteria for PBT/vPvB according to Regulation (EC) No. 1907/2006, Annex XIII, on the basis of available information on the components.

**3. COMPOSITION/INFORMATION ON THE INGREDIENTS**

**3.1 SUBSTANCES**

Not applicable

**3.2 MIXTURES**

This product is a mixture of substances. Substances classified as dangerous are listed below together with their concentration range (Range set by RECOMMENDATION EEC 89/542), with their symbols/hazard signals and assigned R phrases.

Substances no. CAS no. CE	no. Reg. REACH 1999/45/EC	Content %	Classification UE-CLP EC 1272/2008

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Tetrasodium dihydrogen (1-hydroxyethylidene) bisphosphonate 3794-83-0 223-267-7	01-2119510382-52-0000	<0,5%	Acute Tox. 4 H302 Eye dam. 2 H319
BENZENESULPHONIC ACID, DECYL(SULPHOPHOENOXO)-DISODIUM SALT 3645-71-3 253-040-8		<0,1%	Eye dam. 1 H318 Aquatic Chr. 2 - H411
BENZENESULPHONIC ACID, OXYBIS(DECYL)-DISODIUM SALT 70146-13-3 274-342-6		<0,1%	Eye Dam. 1 - H318 Aquatic Chr. 2 - H411
Water		>90	n.c.

Chemical composition and/or concentration of the mixture intellectual property of Asachimici.  
 The full text of the H-phrases is specified in section 16.

**4 FIRST AID MEASURES**

**4.1 FIRST AID MEASURES DESCRIPTION**

**GENERAL INFORMATION:** if feeling unwell seek medical advice. Show this safety data sheet to the physician.

**INHALATION:** move the injured person away from the danger zone and to a well ventilated room; should discomfort symptoms occur, seek medical advice.

**CONTACT WITH SKIN:** rinse skin immediately with plenty of water; change clothing if necessary. If irritation persists or should tissue damage occur, consult a physician

**CONTACT WITH EYES:** remove any contact lenses in use. Rinse immediately with plenty of water, keeping eyelids open for at least 10 minutes. In case of persistent unwellness, promptly consult an oculist.

**SWALLOWING:** Never administer anything orally of the patient is unconscious; wash mouth, get the patient to drink plenty of water; consult a doctor.

**4.2 MAIN SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED**

See sect. 11.

**4.3 INDICATION OF IMMEDIATE NEED FOR MEDICAL ATTENTION AND SPECIAL TREATMENT**

See sect. 4.1.

**5 FIRE MEASURES**

**5.1 EXTINGUISHERS**

On its own, the product does not burn. Use water mist, fire foam, powder, sand, carbon dioxide (CO<sub>2</sub>).

**5.2 SPECIAL HAZARDS ARISING FROM THE MIXTURE**

Possible formation of carbon oxides, phosphorous oxides, phosphine

**5.3 ADVICE FOR FIRE-FIGHTERS**

For the protection of the individual fire-fighters, use suitable means of respiratory protection with proper protective equipment.

**6 ACCIDENTAL RELEASE MEASURES**

**6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

Rescue personnel must wear appropriate personal protective equipment (overalls, gloves, goggles). Keep unauthorized personnel away from the affected area.

**6.2 ENVIRONMENTAL PRECAUTIONS**

Comply with water protection regulations (collect, dam, cover. Prevent the product entering the following: surface waters, water tables. If the product is discharged in great amounts or causes contamination, notify the competent authorities.

**6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP**

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Carefully gather the spilled product (better if sucked up) then wash the area involved with plenty of water. Dispose of unusable product in accordance with relevant regulations.

**6.4 REFERENCE TO OTHER SECTIONS**

If necessary, see sections 8 and 13.

**7 HANDLING AND STORAGE**

**7.1 PRECAUTIONS FOR SAFE HANDLING**

Observe the normal precautions for handling chemical products. Suitably ventilate the area; if necessary, operate with equipment provided with suction devices to prevent dispersion in the air. Keep away from food and beverages. Avoid shock and mishandling of the packages that may cause leakage. During handling operate in clean and tidy conditions. Wear suitable personal protective equipment: gloves and goggles (see section 8).

**7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**

The product must be stored in environments with alkali-resistant floors, covered, dry, cool and ventilated. Keep product away from heat sources, from environmental heating (temperatures of not less than 0°C) and protected from sunlight. Keep packaging closed after use and away from oxidizing agents (see section 10 and 14). No decomposition if stored and applied as directed.

**7.3 SPECIFIC END USES**

No specific recommendations available

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 CONTROL PARAMETERS**

Exposure limit values: no data available on tests performed on the compound concerning occupational exposure; refer to the concentrations of substances constituting the preparation (see section 3) in order to assign a value estimated on the basis of and in relation to their individual characteristics and toxicological classifications.

Derivate level without effects DNEL

Substances	Workers dermic acute	Workers inhalation long time effects	Consumers dermic acute	Consumers inhalation long time effects	Consumers ingestion long time effects
Tetrasodium dihydrogen (1-hydroxyethylidene)bis phosphonate	n.d.	n.d.	n.d.	n.d.	6,5 mg/Kg bw/giorno

Predictable concentration without effects PNEC

Substances	Water	Sea water	Depuration plants
Tetrasodium dihydrogen (1-hydroxyethylidene)bis phosphonate	136 mg/l	5,9 mg/Kg wwt	20mg/l

**8.2 EXPOSURE CONTROLS**

- RESPIRATORY PROTECTION: avoid inhaling.
- HANDS PROTECION: use rubber gloves (pvc, etc).
- EYE PROTECTION: avoid eye contact. Use sealed protective goggles.
- SKIN PROTECTION: use appropriate clothing to avoid direct contact with the skin.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES**

- ASPECT: liquid
- ODOUR: odourless
- pH: (1% solution in water) 7 ± 0,5
- MELTING POINT/FREEZING POINT: n.d.
- INITIAL BOILING POINT AND BOILING RANGE: n.d.
- FLASH POINT: n.d.

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- EVAPORATION RATE: N.D.
- FLAMMABILITY (SOLID, GAS): n.a.
- UPPER/LOWER LIMIT OF FLAMMABILITY OR EXPLOSIVENESS: n.a.
- VAPOR PRESSURE: n.d.
- VAPOR DENSITY: n.d.
- RELATIVE DENSITY: n.d. (apparent density approx. 1.25 gr/ml)
- SOLUBILITY: rapidly soluble in water in all proportion.
- N-OCTANOL/WATER PARTITION COEFFICIENT: n.d.
- IGNITION TEMPERATURE: n.d.
- DECOMPOSITION TEMPERATURE: n.d.
- VISCOSITY: n.a.
- EXPLOSIVE PROPERTIES: n.a.
- OXIDIZING PROPERTIES: n.d.

**9.2 OTHER INFORMATION**

- No data.

**10 STABILITY AND REACTIVITY**

**10.1 REACTIVITY**

Do not release the product into the environment; never mix substances and/or chemical compounds different from each other.

**10.2 CHEMICAL STABILITY**

The product is stable under recommended storage and handling conditions (see paragraph 7).

**10.3 POSSIBILITY OF HAZARDOUS REACTIONS**

The product's alkaline content causes reactions with acids (exothermic reaction) and with acid-generating substances.

**10.4 CONDITIONS TO AVOID**

Avoid the formation of spray, keep away from heat sources and humidity.

**10.5 INCOMPATIBLE MATERIALS**

Avoid contact with strong acids.

**10.6 HAZARDOUS DECOMPOSITION PRODUCTS**

They can present risks when freeing toxic vapours in case of fire or high temperatures.

**11 TOXICOLOGICAL INFORMATION**

No data available on tests performed on the compound; refer to the concentrations of substances constituting the preparation (see section 3) in order to evaluate the toxicological effects resulting from exposure to the product.

Substances	LD50 oral	LD50 skin	LC50 inhalation
Tetrasodium dihydrogen (1-hydroxyethylidene) bisphosphonate	1512mg/Kg	>2000 mg/Kg	n.d.

**11.1 INFORMATION ON TOXICOLOGICAL EFFECTS**

- Acute toxicity, irritation and corrosiveness: according to our experience, the product is not classified as dangerous and, therefore, under normal handling conditions, it does not present significant effects or critical hazards.

-SENSITIZATION: n.a.

Substances	Exposition way	Specie	Results
Tetrasodium dihydrogen (1-hydroxyethylidene) bisphosphonate	skin	n.d.	n.d.

-Repeated dose toxicity: n.a.

-Carcinogenicity: n.a.

-Mutagenicity: n.a.

Substances	Test	Experiment	Results
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Tetrasodium dihidrogen (1-hydroxyethylidene) bisphosphonate	471 Bacterial Reverse Mutation Test	In vitro; Bacteria	Negative
Tetrasodium dihidrogen (1-hydroxyethylidene) bisphosphonate	476 In vitro Mammalian Cell Gene Mutation Test	In vitro: Mammal Animal	Negative

-Reproductive toxicity: n.a.

**12 ECOLOGICAL INFORMATION**

**12.1 TOXICITY**

Use the preparation in the manner and for the purposes intended. Use according to good working practices, avoiding disposal in the environment. Do not discharge into surface water or drains. Avoid release to the soil. Since no toxicological data is available on the mixture, refer to the toxicological information relating to the main substances in the mixture itself, listed in section 3.

**12.2 PERSISTENCE AND DEGRADABILITY**

The surfactants contained in the product comply with the biodegradability criteria established by REGULATION (EC) No. 648/2004 on detergents.

**12.3 POTENTIAL FOR BIOACCUMULATION**

N.D.

**12.4 MOBILITY IN SOIL**

N.D.

**12.5 RESULTS OF PBT AND vPvB ASSESSMENT**

Based on the information available, the mixture does not meet the criteria for PBT and vPvB.

**12.6 ENDOCRINE DISRUPTING PROPERTIES**

n.a.

**12.7 OTHER ADVERSE EFFECTS**

No adverse effects.

**13 DISPOSAL CONSIDERATIONS**

**13.1 WASTE TREATMENT METHODS**

When handling, observe the necessary precautionary measures of protection (see section 6, 7, 8).

Recover if possible. Small quantities can be disposed of, after appropriate dilution with water, at sewage treatment plants, or given to companies specializing in the recovery of waste and/or industrial waste, authorized by the local authorities. Operate according to local and national regulations. Clean packaging before disposal or recycling, still operating in accordance with the legislation in force.

**14 TRANSPORT INFORMATION**

To contain and transport, bags or drums of various kinds can be used, but always of the polyethylene kind. Packages must always be tightly closed to prevent degradation or impacting phenomena. During transport, packaging carefully stowed must be protected from sunlight and heat (keep cool as much as possible). Transport protected from the rain and bad weather (keep dry as much as possible). In case of accidental loss, follow the precautionary instructions in section 6.

**The product is not dangerous for transportation both national and international by road, rail and for marine and air transportation.**

**15 REGULATORY INFORMATION**

**15.1 SAFETY, HEALTH, AND ENVIRONMENTAL REGULATIONS, LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE**

Directive 67/548/EEC (Classification, Packaging, and Labelling of dangerous substances) and subsequent amendments;

Directive 99/45/EC (Classification, Packaging and Labelling of Dangerous Preparations) and subsequent amendments;

Regulation no. 1907/2006/EC (Reach);

Regulation no. 1272/2008/EC (CLP);

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Regulation no. 790/2009/EC (amending, for the purposes of adaptation to technical and scientific progress, Regulation ATP no. 1272/2008/EC);  
Legislative Decree 81/2008 (Consolidated Law on the protection of health and safety in the workplace) and subsequent amendments and Directive 2009/161/EU;  
Regulation 648/2004/EC on detergents, as amended;  
Regulation 453/2010 (EU); rules on transport of dangerous goods by road/rail: ADR/RID Agreement.

#### 15.2 CHEMICAL SAFETY ASSESSMENT

A chemical safety assessment was not carried out on the mixture

## 16 OTHER INFORMATION

Text of H-phrases quoted in section 3 of the sheet for the individual components:

- H302 Harmful if swallowed.
- H319 Causes serious eye irritation
- H318 Causes serious eye damage
- H411 Harmful to aquatic life. Aquatic Chronic 2

The user should take all necessary measures for compliance with local, national, and European regulations.

Staff medical check: regular and preventive medical checks of personnel are required by law.

The above data is based on our current knowledge and is not considered as exhaustive or binding. It is applicable to the product as it conforms to the specifications. Our company does not assume any legal liability arising from the use of such information or reliance on it. In any case, the user is not exempted from observing all the legislative, regulatory and administrative provisions relating to the product, hygiene and safety at work. Despite the information provided here is the best in our possession at the time of last revision, we recommend to check its suitability and completeness, especially in relation to the specific use intended for the product in question. The application, use and processing of the preparation are the sole responsibility of the customer. Read the inscriptions and the labels affixed to the packaging before use.

The information contained in this sheet is in accordance with current legislation relating to dangerous substances listed in section 15.

Because of the many changes leading to this revision, all added, deleted, or modified information is not reported here, while this data sheet fully replaces all previous editions.