

SAFETY DATA SHEET

PULY CLEANER polvere Series

1. IDENTIFICATION OF THE MIXTURE AND COMPANY/BUSINESS

1.1 PRODUCT IDENTIFIER

Trade name **PULY CLEANER - DECALCIFICANTE EASY - ECM ENTKALKER - ECOKAL**

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

Descaling powder for espresso coffee machines. Do not use for purposes other than those stated

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

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

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CONTACT

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1.4 EMERGENCY TELEPHONE NUMBER

Centro Antiveleni (poison control centre) - Niguarda (Milan hospital, Italy) +39 02 66101029

2 HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE classification of the substance or mixture EUROPEAN REGULATION (EC) no. 1272/2008 (CLP)

Eye irritation, Cat. 2 – H319 Causes serious eye irritation.

MAIN HARMFUL EFFECTS

The product causes irritation on contact with eyes.

With regard to its effect on the environment, it does not specifically cause significant hazards under normal handling and use.

2.2 LABEL ELEMENTS

Label in accordance with EC Regulation n° 1272/2008

HAZARD PICTOGRAMS

SIGNAL WORDS

Warning



HAZARD STATEMENTS

H319 Causes serious eye irritation.

PRECAUTIONARY STATEMENTS

(P102 Keep out of reach of children)

(P103 Read label before use)

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/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.

P337 + P313 If eye irritation persists: Get medical advice/attention.

(P101 If medical advice is needed, have product container or label at hand)

2.3 OTHER HAZARDS

No other hazards known in classification

Whatever the case, act in accordance with current legislative provisions concerning "risk assessment" by the employer for the purpose of worker health and safety.

The mixture does not meet the criteria for PBT/vPvB in accordance with Regulation (EC) 1907/2006, annex XIII, based on information available on its components.

3 COMPOSITION/INFORMATION ON INGREDIENTS

The product is a mixture of substances. Substances classified as hazardous are listed below together with their concentration range (89/542/EEC Recommendation), relevant hazard symbols/information and H-statements associated with them.

3.2 MIXTURES

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Substances CAS n° Acute oral toxicity, rat	REACH Reg. n° 1999/45/EC	Content	Classification EU-CLP EC 1272/2008
Citric acid 5949-29-1 LD50 = 11700mg/kg	01-2119457026-42	90-100%	Eye irrit. 2 H319
L(+)-Tartaric acid (Natural) 87-69-4 LD50 2000/5000 mg/kg	01-2119537204-47	<3%	Eye Dam. 1 H318

Chemical composition and/or concentration of the mixture with trademark registered by Asachimici.
H-statements are given in full in section 16.

4. FIRST AID MEASURES**4.1. DESCRIPTION OF FIRST AID MEASURES**

GENERAL ADVICE: if feeling unwell, seek medical advice. Show this safety data sheet to the doctor in attendance.

INHALATION: remove casualty from exposure, have them blow their nose and breathe fresh air.

SKIN CONTACT: rinse skin immediately with plenty of water.

EYE CONTACT: remove contact lenses, if present. Flush immediately with plenty of water under lids.

INGESTION: drink plenty of water. Do not induce vomiting.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

See section 11.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

See point 4.1

5. FIREFIGHTING MEASURES**5.1 EXTINGUISHING MEDIA**

Water fog, extinguishing foam, dry powder, sand, carbon dioxide (CO₂).

5.2 SPECIAL HAZARDS DERIVING FROM THE MIXTURE

The product is not classified as flammable. If you are caught in a fire, do not breathe in smoke.

5.3 ADVICE FOR FIREFIGHTERS

For personal protection, firefighting personal should wear suitable respiratory protection and appropriate protective equipment.

6. ACCIDENTAL RELEASE MEASURES**6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

Clean-up personnel should wear appropriate personal protective equipment (overalls, gloves, goggles and dust mask). Remove personnel not involved in the emergency clean-up from the spillage area.

6.2 ENVIRONMENTAL PRECAUTIONS

No special precautionary measures are required to protect the environment. Contain the spill and transfer the contents to a new container. Prevent from entering drains. If large amounts of the product have drained away or have caused contamination, advise the relevant authorities.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Collect up spilled material thoroughly (vacuum cleaner is the best method) and then wash spill site with plenty of water. Dispose of any non-reusable contents in accordance with current regulations.

6.4 REFERENCE TO OTHER SECTIONS

Where necessary, see sections 8 and 13.

7. HANDLING AND STORAGE**7.1 PRECAUTIONS FOR SAFE HANDLING**

Adhere to usual chemical handling precautions. Keep rooms suitably ventilated; where necessary, work with equipment fitted with suitable extraction devices to prevent dust being released into the air. Keep away from food and drink. Do not knock or mishandle containers as this can result in product spills. Make sure the work space is

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clean and tidy when handling materials. If dust is present, the use of suitable protective equipment is recommended: dust mask, gloves and goggles (see section 8).

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store indoors in a dry, cool, well ventilated room with acid-resistant flooring. Keep away from heat sources (temperatures not to exceed 30°C / 86°F) and out of direct sunlight. Keep containers tightly closed after use and away from alkaline products or oxidizing agents (see sections 10 and 14). Decomposition will not occur if stored and used as directed.

7.3 SPECIFIC END USES

No specific advice available

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Exposure limit values: in the absence of experimental data for the mixture itself, it is advisable to take into account the concentration of the individual components of the preparation (see section 3) to determine an estimated value based on and with reference to their individual properties and toxicological classification.

8.2 EXPOSURE CONTROLS

- RESPIRATORY PROTECTION: do not breathe in dust. In case of dust, use a dust mask.
- HAND PROTECTION: use rubber gloves (PVC, etc.).
- EYE PROTECTION: avoid contact with eyes. In case of dust, use tight-fitting safety goggles.
- SKIN PROTECTION: use suitable clothing and prevent the powder coming into direct contact with the skin.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

- APPEARANCE: white crystalline powder
- ODOUR: odourless
- pH: (5% solution in water) approx. 1.85
- MELTING POINT/FREEZING POINT: no data available
- INITIAL BOILING POINT AND BOILING RANGE: no data available
- FLASH POINT: no data available
- EVAPORATION RATE: no data available
- FLAMMABILITY (SOLID, GAS): not applicable
- UPPER/LOWER FLAMMABILITY OR EXPLOSION LIMIT: not applicable
- VAPOUR PRESSURE: no data available
- VAPOUR DENSITY: no data available
- RELATIVE DENSITY: no data available (apparent density approx. 1.54 g/ml)
- SOLUBILITY: readily soluble in water. approx. 880 g/l at 20°C
- PARTITION COEFFICIENT N-OCTANOL/WATER: no data available
- AUTOIGNITION TEMPERATURE: no data available
- DECOMPOSITION TEMPERATURE: no data available
- VISCOSITY: not applicable
- EXPLOSIVE PROPERTIES: not applicable
- OXIDIZING PROPERTIES: no data available

9.2 OTHER INFORMATION

- None.

10 STABILITY AND REACTIVITY

10.1 REACTIVITY

You are advised not to release product to the environment. It is good practice never to mix different substances and/or chemical preparations together.

10.2 CHEMICAL STABILITY

Highly stable under normal conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

The product's acidic level may cause reactions with alkaline substances (exothermic reaction) and with substances that generate alkalis.

10.4 CONDITIONS TO AVOID

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Avoid generating dust, heat sources and moisture.

10.5 INCOMPATIBLE MATERIALS

Avoid contact with damp air, strong bases and oxidizing agents.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

There may be the risk of toxic vapours being liberated in the event of fire or high temperatures.

11 TOXICOLOGICAL INFORMATION

In the absence of experimental data for the mixture itself, take into account the concentration of the individual substances contained in the preparation (see section 3) to evaluate the toxicological effects of exposure to the product.

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

-Acute toxicity, irritation and corrosion: based on our experience, the product features a level of toxicity common to products of an acidic nature and consequently, under normal handling conditions, it presents hazards associated with products classified as irritants. Results in inflammation in contact with the eyes.

- Sensitization: not applicable
- Repeated dose toxicity: not applicable
- Carcinogenicity: not applicable
- Mutagenicity: not applicable
- Reproductive toxicity: not applicable

12 ECOLOGICAL INFORMATION

12.1 TOXICITY

Use the preparation as directed for its intended purpose only. Use according to good working practices and do not release the product to the environment. Do not empty into surface water or sewers. Do not release product into soil. In the absence of data on the ecotoxicity of the mixture itself, please refer to toxicological information for the main substances contained in the mixture in question, as given in section 3.

12.2 PERSISTANCE AND DEGRADABILITY

The surfactants in the product meet the biodegradability criteria laid down by the Detergents Regulation (EC) N° 648/2004.

12.3 BIOACCUMULATIVE POTENTIAL

No data available

12.4 MOBILITY IN SOIL

No data available

12.5 RESULTS OF PBT AND vPvB ASSESSMENT

Based on available data, the mixture does not meet the criteria for PBT e vPvB.

12.6 OTHER ADVERSE EFFECTS

No other adverse effects known.

13 DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

When handling, adhere to due precautionary protection measures (see section 6, 7, 8).

Reuse wherever possible. Small amounts of product may be disposed of, once suitably diluted with water, through wastewater treatment plants or through a licenced company specialized in recycling special and/or industrial waste. Whatever the case, disposal should be in accordance with applicable local and national laws and regulations. Always decontaminate packaging before disposal or recycling, in all cases complying with the requirements of current waste disposal legislation.

14 TRANSPORT INFORMATION

The product may be contained and transported in bags or drums of various kinds, provided they are lined with polyethylene. Packaging must be kept tightly sealed at all times to prevent the product deteriorating and being packed down. During transit, packaging must be stowed carefully and kept away from heat and out of sunlight (keep in a cool place wherever possible). Make sure packaging is not exposed to rain or the elements while being transported (keep in a dry place wherever possible). In the event of accidental spills, comply with the precautionary instructions described in section 6.



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NOT SUBJECT TO TRANSPORT REGULATIONS (ADR)

15 REGULATORY INFORMATION

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

Directive 67/548/EEC (Classification, Packaging and Labelling of hazardous substances) as amended;
Directive 99/45/EC (Classification, Packaging and Labelling of hazardous preparations) as amended;
Regulation n° 1907/2006/EC (Reach);
Regulation n° 1272/2008/EC (CLP);
Regulation n° 790/2009/EC (amending, for the purpose of adaptation to technical progress (ATP) regulation n° 1272/2008/EC);
D.Lgs 81/2008 (Italian occupational health and safety code) as amended and Directive 2009/161/EU;
Detergents Regulation 648/2004/EC as amended;
Regulation 453/2010 (EU) on the carriage of dangerous goods by road/rail: ADR/RID agreement.

15.2 CHEMICAL SAFETY ASSESSMENT

No chemical safety assessment has been carried out on the mixture.

16 OTHER INFORMATION

Full text of H-statements, as mentioned in section 3 herein, relating to the individual components.

- H319 Causes serious eye irritation.
- H318 Causes serious eye damage.

It is the responsibility of the user to take all necessary measures to comply with local, national and community regulations.

Staff medical check-ups: staff should undergo regular, preventive medicals as required by law.

The information supplied herein is based on our current level of knowledge and must not be considered as exhaustive or binding. It applies to the product as is and in compliance with the specifications. Our company accepts no legal liability arising out of the use of said information or reliance thereon. Said information does not exonerate the user from complying with all laws, local regulations and standards that apply to the product and to occupational health and safety. While the information supplied herein is accurate to the best of our knowledge at the date of the latest revision, the user is advised to satisfy himself as to the suitability and completeness of such information, especially relative to the specific use for which the product in question is due to be used. The application, use and processing of the preparation are the sole responsibility of the customer. Read the instructions and labelling attached to the packaging prior to use.

Information contained herein meets the requirements of current regulations on hazardous substances as given in section 15.

Given the numerous changes that have led to this revision, there is no revision history listing the individual information added, deleted or edited, instead this sheet cancels and supersedes all previous editions.