

SAFETY DATA SHEET

PULY DESCALER ESPRESSO Liquid

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

1.1 PRODUCT IDENTIFIER

Trade name: **PULY DESCALER Espresso Liquid**

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

De-scaling powder for espresso coffee machines. Do not use for purposes other than those listed

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

1.3 INFORMATION ON THE SUPPLIER OF THE SAFETY DATA SHEET

ASACHIMICI SNC di Carubelli G. & C. - Via N.Sauro, 24 - 26039 VESCOVATO CR Italy - Tel. +390372830494
Fax. +390372830029

CONTACT US:

e-mail: info@asachimici.com

1.4 EMERGENCY TELEPHONE NUMBER

Poison Control Centre of Milan Niguarda 02 66101029

2 HAZARDS IDENTIFICATION

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

Skin irrit. 2 - H315 Causes skin irritation.

Eye irrit. 2 - H319 Causes serious eye irritation.

Aquatic chronic 4 - H413 Can be harmful to aquatic organisms with long-lasting effects

2.2 LABEL ELEMENTS

Label compliant with EC Regulation no. 1272/2008

HAZARD PICTOGRAMS

WARNINGS

Caution



HAZARD STATEMENTS

H315 causes skin irritation.

H318 Causes serious eye irritation.

H413 Can be harmful to aquatic organisms with long-lasting effects.

PRECAUTIONS

P273 Avoid release to the environment

P280 Wear protective gloves/eye protection/face protection

P332 + P313 In case of skin irritation, consult a doctor.

P337 + P313 Should eye irritation persist, consult a doctor.

P305 + P351 + P338 IN CASE OF CONTACT WITH EYES: rinse accurately with water for several minutes.

Remove contact lenses, if it is easy to do. Continue to rinse.

P302 + P352 IN CASE OF CONTACT WITH SKIN, wash with plenty of water and soap.

P362 Remove contaminated clothing and wash them before wearing them again.

P501 Dispose of product/containers in compliance with local regulations.

2.3 OTHER HAZARDS

No other hazards known in the classification

Anyway, operate according to existing laws concerning employer "risk assessment" and health and safety of workers.

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

This product is a mixture of substances. Substances classified as dangerous are listed below together with their concentration range (Range set by RECOMMENDATION CEE 89/542), to the relative danger symbols / instructions and to the H phrases assigned to them.

SAFETY DATA SHEET
PULY DESCALER ESPRESSO Liquid

3.2 MIXTURES

Hazardous substances no. CAS no. EINECS	no. Reg. REACH 1999/45/EC Acute oral toxicity on rat	Content %	Classification UE-CLP EC 1272/2008
Sulphamic acid 5329-14-6 226-218-8	01-2119488633-28 LD50 => 1600 mg/Kg	15	Skin irritation 2 H315 Eye irrit. 2 H319 Aquatic chronic 3 H412
Citric acid 5949-29-1 201-069-1	01-2119457026-42 LD50 = 11700mg/Kg	<5	Eye irrit. 2 H319
Tartaric acid 87-69-4 201-766-0	01-2119537204-47 LD50 2000/5000 mg/Kg	<3	Eye Dam. 1 H318

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: remove the person from the area, make him blow his nose and breathe fresh air; if signs of illness should occur, seek medical assistance.

SKIN CONTACT: Wash with water and rinse. Change clothes if necessary. If the irritation persists or tissue damage becomes evident, consult a doctor.

EYE CONTACT: Rinse with running water for several minutes, holding the eyelids open. If pain persists, consult a physician.

INGESTION: Never give anything by mouth if the victim is unconscious. Do not induce vomiting. Call 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

Water mist, fire foam, powder, sand, carbon dioxide (CO₂).

5.2 SPECIAL HAZARDS ARISING FROM THE MIXTURE

This product is not considered flammable. If it was involved in a fire, do not breathe fumes.

5.3 ADVICE FOR FIRE-FIGHTERS

For individual protection of fire-fighting personnel, use suitable protection equipment for respiratory tract, adopting appropriate means of protection.

6 ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

The intervention personnel should wear appropriate personal protective equipment (overalls, gloves, goggles and a dust mask). Keep unauthorized personnel away from the affected area.

6.2 ENVIRONMENTAL PRECAUTIONS

Contain the spill and transfer the contents into a new packaging. Keep away from drains. 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

Carefully collect the spilled product. Contain and absorb spills with inert absorbent material (e.g. sand, dirt, vermiculite, diatomaceous earth). Place the contaminated material in suitable container for waste disposal. Wash the area with water, collecting the used water and eventually sending it for disposal to approved facilities. Dispose of unusable product in accordance with relevant regulations.

6.4 REFERENCE TO OTHER SECTIONS

If necessary, see sections 8 and 13.

SAFETY DATA SHEET

PULY DESCALER ESPRESSO Liquid

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. If product dust is present it is recommended that appropriate protective equipment be used: dust mask, gloves and goggles (see section 8).

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage must take place in environments with acid-resistant floors, covered, dry, cool and well aerated. Keep product away from heat sources (temperatures above 30 °C / 86 °F) and protected from sunlight. Keep packages well closed after use and away from alkaline products or oxidising agents (see sections 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.

8.2 EXPOSURE CONTROLS

- RESPIRATORY PROTECTION: avoid inhaling dusts. In presence of dusts, use a dust mask.
- HAND PROTECTION: avoid skin contact. Use rubber gloves (PVC, etc.).
- EYES PROTECTION: avoid contact with eyes. In presence of dust in the air, wear sealed 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

- APPEARANCE: Colourless liquid
- ODOUR: odourless
- pH: (solution 1% in water) approx. > 2
- MELTING POINT/FREEZING POINT: n.d.
- INITIAL BOILING POINT AND BOILING RANGE: n.d.
- FLASH POINT: n.d.
- 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. 1.54 gr/ml)
- SOLUBILITY: rapidly soluble in water. Ca. 880 g/L at 20°C
- 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

SAFETY DATA SHEET

PULY DESCALER ESPRESSO Liquid

The product is characterised by excellent stability under normal conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

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

10.4 CONDITIONS TO AVOID

No information available on this product.

10.5 INCOMPATIBLE MATERIALS

Cl₂, metallic nitrates and nitrites + heat, HNO₃ in smoke form. Avoid contact with moist air, strong bases, oxidising agents and certain metals.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Can develop NO_x, SO₂, SO₃, NH₃ and NH₄HSO₄

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.

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

- Acute toxicity, irritation and corrosivity: in our experience the product is characterised by a degree of toxicity common to products of acid nature and, therefore, at normal handling conditions exposes to dangers referable to those of products classified as irritants. coming into contact with skin and eyes causes inflammation.

-SENSITIZATION: n.a.

-Repeated dose toxicity: n.a.

-Carcinogenicity: n.a.

-Mutagenicity: n.a.

-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 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

SAFETY DATA SHEET

PULY DESCALER ESPRESSO Liquid

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.

NOT SUBJECTED TO TRANSPORT REGULATORY STANDARDS (ADR)

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);

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

An assessment of the chemical safety 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:

H315 Causes skin irritation.

H318 Causes serious eye irritation.

H413 Can be harmful to aquatic organisms with long-lasting effects.

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 are 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.