

SAFETY DATA SHEET

PULY CAFF® VERDE Powder

1. IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

1.1 PRODUCT IDENTIFIER

UFI: CK00-V0H9-000E-PDNH

Commercial Name **PULY CAFF® VERDE Powder**

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

Cleaning detergent specific for espresso coffee and filter coffee machines

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 Italia - Tel. +390372830494 Fax. +390372830029

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)

Eye irritation, Category 2 - H319 Causes serious eye irritation.

SIGNIFICANT ADVERSE EFFECTS

The product causes eye irritation by contact

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

Caution



HAZARD STATEMENTS

H318 Causes serious eye irritation.

PRECAUTIONS

(P102 Keep out of the reach of children.)

(P103 Read the label before use.)

P264 After using the product, wash skin accurately.

P280 Wear protective gloves/eye protection/face protection

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.

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

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

3.1 SUBSTANCES

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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 n. CAS n. EINECS EC index number	REACH Reg. No.	Content %	Classification CLP CE 1272/2008	Specific limits concentration
Sodium carbonate 497-19-8 207-838-8	01-2119485498-19-xxxx	5-15	Eye Irrit. 2 H319	n.a.
Sodium percarbonate 15630-89-4 239-707-6 011-005-00-2	01-2119457268-30-xxxx	5-15	Acute Tox. 4 H302 Eye dam. 1 H318 Ox. Sol. 3 H272	>= 25% Acute Tox. 4 H302 Eye dam. 1 H318 Ox. Sol. 3 H272 10 -< 25% Eye Irrit. 2 H319
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1 273-257-1	01-2119490225-39-xxxx	<1	Skin irrit. 2 H315 Eye dam. 1 H318 Aquatic Chronic 3 H412	>= 20% Skin irrit. 2 H315 Eye dam. 1 H318 Aquatic Chronic 3 H412 10 -< 20% Eye Irrit. 2 H319

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 (CO₂).

5.2 SPECIAL HAZARDS ARISING FROM THE MIXTURE

Possible formation of carbon oxides

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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

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

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

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. 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

The product must be stored in environments with alkali-resistant floors, covered, dry, cool and ventilated. Keep product away from heat sources (temperatures not exceeding 20°C) and protected from sunlight. Keep packages well closed after use and away from acid products, alkali, reducing agents or metal salts (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 DNEL effect

Substances	Workers dermic acute	Workers inhalation long time effects	Consumers dermic acute	Consumers inhalation long time effects	Consumers ingestion long time effects
Sodium carbonate	na	10 mg/m ³	na	10 mg/m ³	na
Sodium percarbonate	12,8 mg/cm ²	5 mg/m ³	6,4 mg/cm ²	na	na
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts	4060 mg/Kg	285 mg/m ³	2440 mg/Kg	85 mg/m ³	24 mg/Kg

Predictable concentration without PNEC effects

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Substances	Water	Sea water	Depuration plants
Sodium carbonate	na	na	na
Sodium percarbonate	0,035 mg/l	na	16,24 mg/l
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts	0,098 mg/l	0,0098 mg/l	0,15 mg/l

8.2 EXPOSURE CONTROLS

- RESPIRATORY PROTECTION: avoid inhaling dusts. In presence of dusts, use a dust mask.
- HANDS PROTECION: use rubber gloves (pvc, etc).
- EYE PROTECTION: avoid contact with eyes. In presence dust in the air, wear sealed goggles.
- SKIN PROTECTION: use appropriate clothing to avoid direct dust contact with the skin.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

- APPEARANCE: white powder or tablets
- ODOUR: odourless
- pH: (solution 1% in water) 10 ± 0.5
- VOC (Volatile Organic Compounds) content: 0 g/L
- HIDROGEN PEROXIDE < 2%
- DENSITY VALUE: 900 – 1100 g/cm³
- MELTING POINT/FREEZING POINT: n.d.
- INITIAL BOILING POINT AND BOILING RANGE: n.d.
- FLAMMABILITY 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. 1.15 gr/ml)
- SOLUBILITY: rapidly soluble in water. Ca. 20 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.

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 dust, keep away from heat sources and humidity.

10.5 INCOMPATIBLE MATERIALS

Avoid contact with humid air, strong acids, thin aluminium.

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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
Sodium carbonate	2800 mg/Kg	na	2300 mg/m3
Sodium percarbonate	1034 mg/Kg	>2000 mg/Kg	na
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts	>2000-<=5000 mg/Kg	>2000 mg/Kg	na

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

- Acute toxicity, irritation and corrosiveness: according to our experience, the product is characterised by a degree of toxicity common to products of alkaline nature and, therefore, under normal handling conditions it presents hazards that are likened to those of products classified as irritant. In contact with the eyes it causes inflammatory manifestations.

-Sensitization:

Substances	Exposition way	Species	Result
Sodium carbonate	skin	Buehler Test cavia	Not sensitizer
Sodium percarbonate	skin	Buehler Test cavia	Not sensitizer
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts	skin	OECD 406	Not sensitizer

-Toxicity upon repeated doses: n.a.

-Carcinogenicity:

Substances	Exposition way	Species	Result
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts			Not cancerogenic for humans

-Mutagenicity:

Substances	Exposition way	Species	Result
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts			Not mutagenic

-Toxicity upon reproduction:

Substances	Exposition way	Species	Result
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts			Not Toxic upon reproduction

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.

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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

14.1 UN NUMBER

The product is not considered hazardous merchandise for both national and international transportation via roadways, railway, by sea and by air. (ADR, ICO, IATA)

14.2 UN SHIPPING NAME

The product is not considered hazardous merchandise for both national and international transportation via roadways, railway, by sea and by air. (ADR, ICO, IATA)

14.3 DANGER CLASS RELATED TO TRANSPORT

The product is not considered hazardous merchandise for both national and international transportation via roadways, railway, by sea and by air. (ADR, ICO, IATA)

14.4 PACKAGING GROUP

The product is not considered hazardous merchandise for both national and international transportation via roadways, railway, by sea and by air. (ADR, ICO, IATA)

14.5 HENVIROMENTAL HAZARD

The product is not considered hazardous merchandise for both national and international transportation via roadways, railway, by sea and by air. (ADR, ICO, IATA)

14.6 SPECIAL PRECAUTIONS FOR USERS

The product is not considered hazardous merchandise for both national and international transportation via roadways, railway, by sea and by air. (ADR, ICO, IATA)

14.7 TRANSPORT OF BULK IN ACCORDANCE WITH ANNEX II OF MARPOL 73/78 AND THE IBC CODE

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

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

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

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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;

Contains among other ingredients 5-15% oxygen base whitening; <1%, anionic surfactants.

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:

-H272 May cause fire. Oxidiser. Ox. Sol. 3

-H302 Harmful if swallowed. Acute Tox. 4

-H315 Causes skin irritation. Skin irrit. 2

-H318 Causes serious eye damage. Eye Dam. 1

-H319 Causes serious eye irritation. Eye Irrit. 2

-H412 Harmful to aquatic life with long lasting effects. Aquatic Chronic 3

Abbreviations and acronyms:

n.a.: Not available

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organization

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

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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bio accumulative and Toxic

vPvB: very Persistent and very Bio accumulative

NIOSH: National Institute for Occupational Safety

OECD: Organization for Economic Co-operation and Development

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.

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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.