

## SAFETY DATA SHEET

### PULY CAFF Plus® NSF POWDER/TABLET

#### 1. IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

##### 1.1 PRODUCT IDENTIFIER

POWDER UFI: 3200-U0CW-500F-QC4R

TABLET UFI: R500-C029-F00X-DPQV

Trade name: **PULY CAFF Plus® NSF POWDER/TABLET**

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

Cleaning detergent specifically for espresso and filter coffee brewer

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

##### 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 DETAILS

e-mail: info@asachimici.com

##### 1.4 EMERGENCY TELEPHONE NUMBER

Poison Control Centre – Ospedale Niguarda - +39(0)2 66101029 - Poison Control Centre –Roma Policlinico Gemelli +39(0)6 3054343

#### 2 HAZARDS IDENTIFICATION

##### 2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE REGULATION (EC) No. 1272/2008 (CLP)

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

##### ADVERSE PHYSICO-CHEMICAL EFFECTS, FOR HUMAN HEALTH AND FOR THE ENVIRONMENT

The product causes irritation when in contact with eyes

When used in normal environments, according to correct usage conditions, the product does not present specific hazards.

##### 2.2 LABEL ELEMENTS

Label compliant with EC Regulation No. 1272/2008

##### HAZARD PICTOGRAMS



##### WARNINGS

Attention

##### HAZARD STATEMENTS

H319 Causes serious eye irritation.

##### PRECAUTIONS

(P102 Keep out of the reach of children.)

(P103 Read label before using.)

P264 Wash skin thoroughly after use.

P280 Wear protective gloves/eye protection/face protection.

P305 + P351 + P338 IN CASE OF CONTACT WITH EYES: Rinse thoroughly with water for several minutes. Remove contact lenses, if it is easy to do. Continue to rinse.

(P101 Where a doctor's visit is required, bring along the container or label.)

##### 2.3 OTHER HAZARDS

No other known hazards

Employers must respect legal conditions in force relative to "risk assessment" to protect the health and safety of employees.

The mixture does not meet PBT/vPvB criteria as per Regulation (EC) 1907/2006, attachment XIII, based upon the information available on components.

#### 3 COMPOSITION/INFORMATION ON 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 with their symbols/hazard signals and assigned H phrases.

Substances n. CAS n. EINECS EC index number	REACH Reg. No.	Content %	Classification CLP CE 1272/2008	Specific limits concentration
Sodium sulphate 7757-82-6 231-820-9	01-2119519226-43-xxxx	65-75	Not classified	n.d.
Sodium carbonate 497-19-8 207-838-8	01-2119485498-19-xxxx	5-15	Eye Irrit. 2 H319	n.d.
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 mixture concentration, intellectual property of Asachimici.  
The complete H phrase test is documented in section 16.

**4 FIRST AID MEASURES**

**4.1 FIRST AID MEASURES DESCRIPTION**

**GENERAL MEASURES:** where discomfort is experienced, consult a physician. Show the physician the present safety data sheet.

**INHALATION:** remove the injured person from the danger zone to a well-ventilated room; if any symptoms of discomfort should occur, seek medical advice.

**CONTACT WITH SKIN:** rinse the skin immediately using plenty of water and change clothing where necessary. If irritation persists or tissue damage occurs, consult a physician.

**CONTACT WITH EYES:** remove any contact lenses. Rinse immediately using plenty of water and with eyelids open for at least 10 minutes. Where discomfort persists, immediately consult an ophthalmologist.

**INGESTION:** Never administer anything orally where the victim is not conscious; rinse the mouth; make sure the person drinks plenty of water; consult a physician.

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

See section 11.

**4.3 INDICATION OF IMMEDIATE NEED FOR MEDICAL ATTENTION AND SPECIFIC TREATMENTS**

See section 4.1.

**5 FIRE MEASURES**

**5.1 EXTINGUISHERS**

The product itself does not burn. Use water mist extinguishers, fire-fighting foam, powder, sand, Carbon dioxide (CO<sub>2</sub>).

**5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE**

Possible formation of carbon monoxide

**5.3 ADVICE FOR FIRE-FIGHTERS**

To protect fire-fighters, suitable breathing protection means must be employed along with suitable protective equipment.

**6 ACCIDENTAL RELEASE MEASURES**

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

Intervention personnel must wear suitable personal protective equipment (overalls, gloves, goggles and dust mask). Personnel not trained to deal with emergency interventions must stay away from the area concerned.

#### 6.2 ENVIRONMENTAL PRECAUTIONS

Comply with water protection standards (collect, control, cover). Do not place the product in the following areas: in surface water or drainage systems. In the instance where a large quantity of the product has leaked or caused contamination, the competent authorities must be informed.

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

Carefully collect the leaked product (better where aspirated) and using plenty of water, clean the affected area. Comply with current standards when disposing the non-reusable product.

#### 6.4 REFERENCE TO OTHER SECTIONS

Where necessary, see sections 8 and 13.

## 7 HANDLING AND STORAGE

#### 7.1 PRECAUTIONS FOR SAFE HANDLING

Comply with precautions overseeing the handling of chemical products. Adequately ventilate areas; where necessary, use equipment which feature ventilation devices to stop powder filling up the air. Keep away from food and drinks. Avoid knocking and incorrect handling of packages which may cause the product to leak. During handling, ensure surroundings are clean and organised. Where powder is present, we recommend using suitable protective means: dust mask, gloves and goggles (see section 8).

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

The product must be stored in covered areas, dry, cool and ventilated, away from heat sources, central heating (temperature must not exceed 40°C) and it must be shielded from the sun's rays. Keep packages securely closed after use and away from acidic, alkali products, reducing substances or mineral salts (see sections 10 and 14). There will be no decomposition where stored and used as indicated.

#### 7.3 SPECIFIC END USERS

No specific recommendations available

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 CONTROL PARAMETERS

Exposure threshold limit value: as there is no test data available on the component used in terms of professional exposure, we must consider the concentrations of the substances forming part of the preparation (see section 3) in order to assign an estimated value based upon and relative to 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	nd	10 mg/m3	nd	10 mg/m3	nd
Sodium percarbonate	12,8 mg/cm2	5 mg/m3	6,4 mg/cm2	nd	nd
Sodium alkyl sulphate	4060 mg/Kg	285 mg/m3	2440 mg/Kg	85 mg/m3	24 mg/Kg

Predictable concentration without PNEC effects

Substances	Water	Sea water	Depuration plants
Sodium carbonate	nd	nd	nd
Sodium percarbonate	0,035 mg/l	nd	16,24 mg/l
Sodium alkyl sulphate	0,098 mg/l	0,0098 mg/l	0,15 mg/l

#### 8.2 EXPOSURE CONTROLS

- RESPIRATORY PROTECTION: avoid inhaling powder. Use a dust mask in the presence of powder.
- HAND PROTECTION: use rubber gloves (PVC, etc.).
- EYE PROTECTION: avoid contact with eyes. Use protective, airtight goggles in the presence of powder.

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-SKIN PROTECTION: employ clothing which prevents direct contact between the powder and 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
- HYDROGEN PEROXIDE < 2%
- DENSITY VALUE: 900 – 1100 g/cm<sup>3</sup>
- MELTING POINT/FREEZING POINT: n.d.
- INITIAL BOILING POINT AND BOILING INTERVAL: n.d.
- FLAMMABILITY POINT: n.d.
- EVAPORATION RATE: n.d.
- FLAMMABILITY (SOLIDS, GAS): n.a.
- MAXIMUM/MINIMUM FLAMMABILITY LIMIT OR EXPLOSIVITY: n.a.
- VAPOUR PRESSURE: n.d.
- VAPOUR DENSITY: n.d.
- RELATIVE DENSITY: n.d. (apparent density approx 1.15 g/ml)
- SOLUBILITY: rapidly soluble in water. Approx. 20 g/L at 20°C
- N-OCTANOL/WATER PARTITION: n.d.
- AUTOIGNITION TEMPERATURE: n.d.
- DECOMPOSITION TEMPERATURE: n.d.
- VISCOSITY: n.a.
- EXPLOSIVE PROPERTIES: n.a.
- OXIDISING PROPERTIES: n.d.

### 9.2 OTHER INFORMATION

-No data available

## 10 STABILITY AND REACTIVITY

### 10.1 REACTIVITY

Avoid releasing the product in the environment and it is good practice to never mix substances and/or chemical preparations.

### 10.2 CHEMICAL STABILITY

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

### 10.3 POSSIBILITY OF HAZARDOUS REACTIONS

The alkaline content of the product reacts with acids (chemical reaction) and with substances which generate acids.

### 10.4 CONDITIONS TO AVOID

Avoid dust formation, heat sources and humidity.

### 10.5 INCOMPATIBLE MATERIALS

Avoid contact with humidity, strong acids, thin aluminium.

### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

The release of toxic vapours resulting from a fire or high temperatures may present risks.

## 11 TOXICOLOGICAL INFORMATION

As there is no test data available on the component, we must consider the concentrations of the substances forming part of the preparation (see section 3) in order to assess the toxicological effects arising from product exposure.

Substances	LD50 oral	LD50 skin	LC50 inhalation
Sodium carbonate	2800 mg/Kg	nd	2300 mg/m <sup>3</sup>
Sodium percarbonate	1034 mg/Kg	>2000 mg/Kg	n.d.
Sodium alkyl sulphate	>2000-<=5000 mg/Kg	>2000 mg/Kg	n.d.

### 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

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-Acute toxicity, irritation and corrosiveness: according to our experience, the product has a high toxicity level in line with alkaline type products however in standard handling conditions, it presents hazards attributable to products classified as irritating. when in contact with eyes it offsets inflammatory conditions.

-Sensitization:

Substances	Exposition way	Species	Result
Sodium carbonate	skin	Buehler Test cavia	Not sensitizer
Sodium percarbonate	skin	Buehler Test cavia	Not sensitizer
Sodium alkyl sulphate	skin	OECD 406	Not sensitizer

-Toxicity upon repeated doses: n.a.

-Carcinogenicity:

Substances	Exposition way	Species	Result
Sodium alkyl sulphate			Not cancerogenic for humans

-Mutagenicity:

Substances	Exposition way	Species	Result
Sodium alkyl sulphate			Not mutagenic

-Toxicity upon reproduction:

Substances	Exposition way	Species	Result
Sodium alkyl sulphate			Not Toxic upon reproduction

## 12 ECOLOGICAL INFORMATION

### 12.1 TOXICITY

Use the preparation as per the methods and for the objectives specified. Use according to good working practices, avoiding disposal in the environment. Do not dispose in surface water or drainage systems. Do not dispose in the ground. As there is no ecotoxicology data available on this mixture, we refer to the toxicology information relative to the main substances in the mixture itself, described in section 3.

### 12.2 PERSISTENCE AND DEGRADABILITY

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

### 12.3 POTENTIAL FOR BIOACCUMULATION

n.d.

### 12.4 MOBILITY IN SOIL

n.d.

### 12.5 RESULTS OF PBT AND vPvB ASSESSMENT

The mixture, based upon the information available does not meet PBT and vPvB criteria.

### 12.6 OTHER ADVERSE EFFECTS

No adverse effects have been identified.

## 13 DISPOSAL CONSIDERATIONS

### 13.1 WASTE TREATMENT METHODS

When handling, comply with the protective precautions established (see sections 6, 7, 8).

Recover if possible. Small product quantities may be disposed of subject to suitable dilution in water, in sewage water purification systems, or may be overseen by specialist companies dealing with specialist refuse and/or industrial waste disposal, as authorised by designated authorities. Operate according to local and national regulations. Clear packages before disposing or recycling them in compliance with legislation in force overseeing such.

## 14 TRANSPORT INFORMATION

### 14.1 UN NUMBER



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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

n.d.

Different types of bags or drums may be used for packaging and transportation however they must always be made of polyethylene. Packages must always be correctly sealed to prevent deterioration and compression. During transportation, the correctly loaded packages, must be protected from the sun's rays and heat (keep cool as much as possible). When transporting, take care to protect the packages from the rain and bad weather (keep dry as much as possible). In the case of accidental loss, refer to the precautionary instructions described in section 6.

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

## 15 REGULATORY INFORMATION

### 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS AND LEGISLATION SPECIFIC TO THE MIXTURE

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

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

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 overseeing detergents and subsequent modifications; Contains among other ingredients 5-15% oxygen base whitening; <5% phosphate, anionic surfactants.

Regulation 453/2010 (EU); standard overseeing the transportation of hazardous merchandise on road/railway: ADR/RID Agreement.

### 15.2 CHEMICAL SAFETY ASSESSMENT

A chemical safety assessment has not been completed 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. Aquatic Chronic 3

Abbreviations and acronyms:

n.a.: Not available

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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

It is the responsibility of the user to take all the measures necessary to ensure compliance with local, national and EU standards.

Personnel medical checks: preventive and periodic personnel medical checks are a legal requirement. The data provided is based on our knowledge up to the present day and is not considered exhaustive or binding. It is applicable to the product as per and in compliance with specifications. Our Company will not assume any legal responsibility arising from the use of such information or reliance upon the aforementioned. In no cases, will such information excuse the user from complying with all legislative, administrative and regulatory standards governing the product, in addition to health and safety standards in the workplace. Despite the information provided, such information being up-to-date at the time of the latest revision, we suggest users ensure the suitability and completeness of the aforementioned, primarily in relation to the specific use envisaged for the product in question. The application, use and modification of the preparation fall under the exclusive responsibility of the client. Read instructions and labels attached to packages before using.

The information described with this present data sheet complies with that prescribed by standards in force governing the hazardous substances described in section 15.

Owing to the numerous modifications, hence the reason for this revision, individual information which has been added, deleted or modified, has not been highlighted; this present data sheet entirely nullifies and replaces all previous versions.

## ANNEX:

### EXPOSURE SCENARIO -N. 1

**TRANSFER OF THE PROFESSIONAL PRODUCT INTO CONTAINER (BUCKET / MACHINERY)** (ref. AISE GEIS.8a .1.a.v1) -

Open transfer of a concentrated product (with or without dilution); the operator is directly exposed to the product.

#### OPERATING CONDITIONS

Maximum duration 50 minutes / day

Process conditions

The process takes place at room temperature. In case of dilution, tap water at a maximum temperature of 45 ° C. Local Ventilation (LEV) is not required; good general ventilation is sufficient in the workplace

#### RISK MANAGEMENT MEASURES

Conditions and measures in relation to personal protective equipment (PPE), to the assessment of hygiene and health

Use protective gloves and goggles. See section 8 for specifics Ensure adequate staff training in relation to use and maintenance

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### PULY CAFF Plus® NSF POWDER/TABLET

#### GOOD PRACTICE TIPS

Do not eat, drink, smoke or use naked flames  
Wash your hands after use Avoid contact with injured skin  
Do not mix with other products  
Spill instructions  
Dilute with water and collect.

#### Additional advice

Follow the instructions on the label, technical data sheet and SDS in sect. 7.

#### ENVIRONMENTAL MEASURES:

Prevent the undiluted product from reaching surface waters.

#### PROPERTY OF THE PRODUCT COMPOSITION

The classification of the concentrated product is found on the label and in section 2 of the SDS  
The classification of the product is based on that of the ingredients. The list of ingredients that contribute to the classification of the product is found in section 3 of the SDS.

The relevant limit values of the ingredients on which the exposure assessment is based are reported in section 8 of the SDS

The product may contain sensitizing components that can cause an allergic reaction in some subjects.

The section 15 of the SDS reports these sensitizers if applicable to the product.

#### DESCRIPTORS OF USE

SU 22: Professional use

PC 35: Washing and cleaning product (including solvent-based products)

PROC 8a: Transfer of substance or preparation (filling / emptying) from / to vessels / large containers, in non-dedicated facilities

ERC 8a: Wide dispersive indoor use of processing aids in open systems

## EXPOSURE SCENARIO -N. 4

#### USE OF THE PROFESSIONAL PRODUCT IN A SEMI-CLOSED SYSTEM (ref AISE GEIS 2.1.a.V1)

Use of a machine product where the operator could be exposed to product / vapors (eg: Tunnel washing)

#### OPERATING CONDITIONS

Maximum duration 480 minutes / day

#### Process conditions

The process takes place at room temperature. Local Ventilation (LEV) is not required; good general ventilation is sufficient in the workplace

#### RISK MANAGEMENT MEASURES

Conditions and measures in relation to personal protective equipment (PPE), to the assessment of hygiene and health

No personal protection devices are required.

#### GOOD PRACTICE TIPS

Do not eat, drink, smoke or use naked flames  
Wash your hands after use  
Avoid contact with injured skin  
Do not mix with other products  
Spill instructions  
Dilute with water and collect

#### Additional advice

Follow the instructions on the label, technical data sheet and SDS in sect. 7.

#### ENVIRONMENTAL MEASURES:

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#### DESCRIPTORS OF USE



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SU 22: Professional use

PC 35: Washing and cleaning product (including solvent-based products)

PROC 2: Use in closed and continuous circuit with occasional controlled exposure

ERC 8a: Wide dispersive indoor use of processing aids in open systems