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SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 – Product Identifier

AQUA PATCH

1.2 - Relevant identified uses of the substances or mixture and uses advised against:

Relevant uses: Asphalt Macadam

Uses advised against: All uses not specified in this section or in section 7.3.

1.3 - Details of the supplier of the safety data sheet

ANTEROS EMPREITADAS, SOCIEDADE DE CONSTRUÇÕES E OBRAS PÚBLICAS, S.A.

Estrada nacional nº 103, nº 20, São Fraústo, 5400-283 CHAVES

Tel: 276 340 800

Email: geral@anteros.pt

Alvará nº. 6176-PUB

1.4 - Emergency telephone number

National emergency number: 112

National Anti-Poison information center: Centro informação Anti-Venenos-CIAV: 800 250 250

SECTION 2. HAZARDS IDENTIFICATION

2.1 – Classification of the substance or mixture:

This product contains less than 1% respirable crystalline sílica, so it does not require classification

Regulation n.º 1272/2008 (CLP):

Classification of this product has been carried out in accordance with CLP Regulation (EC) n.º 1272/2008

This product is not classified as hazardous according to CLP Regulation (EC) 1272/2008.

2.2 – Label elements:

Hazard Statements:



Non-applicable

Precautionary statements:

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

P102 – Keep out of reach of children

P501 – Dispose of contents/container according to the separated collection system in your municipality

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2.3 – Other hazards

Prodcy fails to meet PBT/vPvB criteria

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 – Substance

Non-applicable

3.2 – Mixture

Chemical description: Bitumen (Asphalt)

Componentes:

None of the substances contained in the mixture are above the values fixed in Annex II of Regulation (EC) 1907/2006.

SECTION 4. FIRST AID MEASURES

4.1 – Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistente discomforty, showing the SDS of this product.

By inhalation:

In case of symptoms of intoxication remove the person affected from exposure área and provide with fresh air.

By skin contact:

In case of contact it is recommended to clean the affected área thoroughly with water and neutral soap. In case of modifications on the skin (stinging, redness, rashes, blisters,...) seek medical advice with this Safety Data Sheet.



By eye contact:

Rinse eyes with water until the product as been eliminated. In case of problems, consult a dictor showing the SDS for the product.

By ingestion/aspiration:

In case of consumption in large quantities, i tis recommended to seek medical assistance showing the SDS of this product.

4.2 – Most importante symptoms and effects, both acute and delayed: Acute and delayed effects are indicated in sections 2 and 11.

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4.3 – Indication of any immediate medical attention and special treatment needed: Non-applicable

SECTION 5. FIREFIGHTING MEASURES

5.1 – Extinguishing media:

Product is non-flammable, with a low risk of fire due to flammability characteristics of the product in normal conditions of storage, handling and use. In case of the existence of sustained combustion as a result of improper handling, storage or use any type of extinguishing agent can be used (ABC powder, water,..).

5.2 – Special hazards arising from the substance or mixture:

Due to its non-flammable nature, the product does not present a fire risk under normal conditions of storage, handling and use.

5.3 – Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit, ...) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 – Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task.

6.2 – Environmental precautions:



This product is not classified as hazardous to the environment. Keep product away from drains, surface and ground water.

6.3 – Methods and material for containment and cleaning up:

It is recommended:

Sweep up and shovel product or other means and place in container for reuse (preferred) or disposal

6.4 – Reference to other sections: See sections 8 and 13.

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SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

A-Precautions for safe manipulation:

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B – Technical recommendations for the prevention of fires and explosions.

It is recommended to transfer at a slow speed to avoid the creation of electrostatic charges that could affect flammable products. Consult section 10 for conditions and materials that should be avoided.

C- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D – Technical recommendations to prevent environmental risks.

It is not necessary to take special measures to prevent environmental risks. For more information see subsection 6.2

7.2 - Condições for safe storage, including any incompatibilities:

A.- Technical measures for storage:

Minimum temperature: 5 °C

Maximum temperature: 20 ° C

Maximum time: 12 months

B-General conditions for storage:

Avoid sources of heat, radiation, static electricity and contact with food. –for additional information see subsection 10.5

7.3 – Specific end use (s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 – Control parameters:

Substances whose occupational exposure limits have to be monitored in the work environment

Calcium Oxide, CAS: 1305-78-8, EINECS: 215-138-9



Identification

Calcium Oxide, CAS: 1305-78-8, EINECS: 215-138-9

Environmental Limits

IOELV (8h): 1 mg/m³

IOELV (STEL): 4 mg/m³

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DNEL (Workers):

Non-applicable

DNEL (General population):

Non-applicable

PNEC:

Non-applicable

8.2 – Exposure controls:

A –General security and hygiene measures in the work place

As a preventive measure it is recommended to use basic Personal Protection Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection, ..) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is known whether the company has additional measures at its disposal.

B –Respiratory protection:

The use of protection equipment will be necessary if a mist forms or if the professional exposure limits are exceeded.

C –Specific protection for the hands

- Protective gloves against minor risks, CE Cat I
- Remarks: Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420: 2003+A1 and EN 374-1: 2016.

D – Ocular and facial protection

- Panoramic glasses against liquid splash, CE Cat II, Standards EN 166: 2001, EN ISO 4007: 2018
- Remarks: Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E – Bodily protection

- Work clothing, CE Cat I, Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in Standard EN 6529: 2013, EN ISO 6530: 2005, EN ISO 13688: 2013, EN 464: 1994.
- Anti-slip work shoes: CE cat II, Standards EN ISO 20347: 2012, Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 20345: 2012 y EN 13832-1: 2007.

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F – Additional emergency measures

It is not necessary to take additional emergency measures.

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1 D

Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply): 0 % weight

V.O.C. Density at 20°C: 0 Kg/m³, (0 g/L)

Average Carbon number: Non-applicable

Average molecular weight: Non-applicable



SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 – Informations on basic physical and chemical properties:

For complete information see the product datasheet

Physical state at 20°C	Liquid
Appearance	Undefinie
Boiling point at atmospheric pressure	2230 - 3600 °C
Vapour pressure at 20°C	Non-applicable
Vapour pressure at 50°C	<300000 Pa (300 kPa)
Evaporation rate at 20°C	Non-applicable
Densidade, 20°C	2479 Kg/ m ³
Density at 20°C	2,479
Dynamic viscosity, 20°C	Non-applicable*
Concentration	Non-applicable*
pH	Non-applicable*
Vapour density at 20°C	Non-applicable*
Partition coefficient n-octanol/water at 20°C	Non-applicable*
Solubility in water at 20°C	Non-applicable*
Solubility properties	Non-applicable*
Decomposition temperature	Non-applicable*
Melting point / freezing point	Non-applicable*
Flash point	Non-flammable (>60°C)
Autoignition temperature	Non-applicable*
Lower flammability limit	Non-applicable*
Upper flammability limit	Non-applicable*

*Non-applicable due to the nature of the product

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9.2 – Other informations:

Surface tension at 20°C: Non-applicable*

Refraction index: Non-applicable*

SECTION 10. STABILITY AND REACTIVITY

10.1 - Reactivity:

No hazardous reactions are expected if the following technical instructions storage of chemicals. See section 7.

10.2 – Chemical stability:

Chemical stable under the conditions of storage, handling and use.

10.3 – Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 – Conditions to avoid:

Applicable for handling and storage at room temperature:

- Shock and friction: Not applicable
- Contact with air: Not-applicable
- Increase in temperature: Not applicable
- Sunlight: Not applicable
- Humidity: Not applicable

10.5 – Incompatible materials:

- Acids: Avoid strong acids
- Water: Not applicable
- Combustive materials: Not applicable
- Combustive materials: Not applicable
- Others: Avoid alkalis or strong bases

10.6 – Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.



SECTION 11. TOXICOLOGICAL INFORMATION

11.1 - Informações on toxicological effects:

LD50 oral > 2000 mg/kg (rat)

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse on health depending on the means of

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exposure:

A- Ingestion:

- Acute toxicity: Based on available data, the classification criteria are not met.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met.

B- Inhalation:

- Acute toxicity: Based on available data, the classification criteria are not met.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met.

C- Contact with skin and eyes:

- Contact with skin: Based on available data, the classification criteria are not met.
- Contact with eyes: Based on available data, the classification criteria are not met.

D- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met.

IARC: Quartz (RCS<1%) (1); Asphalt (2B); Styrene-Butadiene copolymer (3)

- Mutagenicity: Based on available data, the classification criteria are not met.
- Reproductive Toxicity: Based on available data, the classification criteria are not met.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met.
- Cutaneous: Based on available data, the classification criteria are not met.

F- Specified target organ toxicity (STOT), time of exposure:

Based on available data, the classification criteria are not met.

G- Specific target organ toxicity (STOT), repeated exposure:

- specific target organ toxicity (STOT), repeated exposure: Based on available data, the classification criteria are not met.
- Skin: Based on available data, the classification criteria are not met.

H- Aspiration hazard:

Based on available data, the classification criteria are not met.



Other informations: Non-applicable

Specific toxicology information on the substances:

Not available

Acute Toxicity Estimate (ATE mix):

	ATE (mix)	Ingrediente(s) of unknown toxicity
Inhalation	>20 mg/L (Calculation method)	Non-applicable
Dermal	>2000 mg/kg (Calculation method)	Non-applicable

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Oral >2000 mg/kg (Calculation method) Non-applicable

SECTION 12. ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

12.1 - Toxicity:

Not available

12.2 – Persistence and degradability:

Not available

12.3 Bioaccumulative potencial:

Not available

12.4 Mobility in soil:

Not available

12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

12.6 Other adverse effects:

Not described

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 – Waste Treatment methods:

Code: 17 03 02, Description: bituminous mixtures other than those mentioned in 17 03 01
 Waste class (Reg EU 1357/2014): Non-Dangerous

Type of waste (Regulamento (UE) n. °1357/2014): Non-applicable

Waste management (disposal and evaluation):

Consult the authorized waste servisse on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Diretive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommend disposal down the drain. See paragraph 6.2.

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Regulations related to waste management:

In accordance with Annex II of Regulation (EC) n° 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) 1357/2014

SECTION 14. TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2019 and RID 2019:

14.1 – UN Number	Non-applicable
14.2 – UN proper shipping name	Non-applicable
14.3 – Transport hazard class (es) Labels:	Non-applicable
14.4 – Packing group	Non-applicable
14.5 – Dangerous for the environment	No
14.6 – Special precautions for user Special regulations Tunnel restriction code Physico-Chemical properties Limited quantities	Non-applicable Non-applicable See section 9 Non-applicable
14.7 – Transport in bulk according to Annex II of Marpol and IBC Code	Non-applicable

Transport of dangerous goods by sea:

With regard to IMDG 39-18:

14.1 – UN Number	Non-applicable
14.2 – UN proper shipping name	Non-applicable
14.3 – Transport hazard class (es) Labels:	Non-applicable
14.4 – Packing group	Non-applicable
14.5 – Dangerous for the environment	No
14.6 – Special precautions for user Special regulations Tunnel restriction code Physico-Chemical properties Limited quantities	Non-applicable Non-applicable See section 9 Non-applicable
14.7 – Transport in bulk according to Annex II of Marpol and IBC Code	Non-applicable

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Transport of dangerous goods by air:

With regard to IATA/ICAO 2020:

14.1 – UN Number	Non-applicable
14.2 – UN proper shipping name	Non-applicable
14.3 – Transport hazard class (es) Labels:	Non-applicable
14.4 – Packing group	Non-applicable
14.5 – Dangerous for the environment	No
14.6 – Special precautions for user Physico-Chemical properties	See section 9
14.7 – Transport in bulk according to Annex II of Marpol and IBC Code	Non-applicable

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

Candidate substances for authorisation under Regulation (EC) 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorization list") and sunset date: Non-applicable

Regulation (EC) 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, Regulation 527/212: Non-applicable



REGULATION (UE) N.o 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

Seveso III:

Non-applicable

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII, REACH):

1. Cement and cement-containing mixtures shall not be placed on the market, or used, if they contain, when hydrated, more than 2 mg/kg (0,0002%) soluble chromium VI of the total dry weight of the cement.
2. If reducing agents are used, then without prejudice to the application of other Community provisions on the classification packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of cement or cement containing mixtures is visible, legibly and indelibly marked with information on the packing date, as well as on the storage conditions and the storage period appropriate to maintaining the activity of the reducing agent and to keeping the content of soluble chromium VI below the limit indicated in paragraph 1.

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3. By way derogation, paragraphs 1 and 2, shall not apply to the placing on the market for, and use in, controlled closed and totally automated processes in which cement and cement-containing mixtures are handled solely by machines and in which there is no possibility of contact with the skin.
Occupational exposure to respirable crystalline silica must be controlled pursuant to Directive (EU) 2019/1303.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislations:

The product could be affected by sectorial legislation

15.2 – Chemical safety assessment: the supplier has not carried evaluation of chemical safety

SECÇÃO 16. OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II – Guide to the compilation of Safety data sheets of Regulation (EC) N° 1907/2006 (Regulation (EU) N° 453/2010, Regulamento (EC) N° 2015/830)

Modifications related to the previous security card which concerns the ways of managing risks: Non-applicable

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are presented merely for informative purposes and refer to the individual components which appear in section 3.

CLP Regulation n°1272/2008:

Non-applicable

Advices related to training:



Minimal training is recommended to prevent industrial risks for the staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principais bibliographical sources:

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

Abbreviations and acronyms:

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(ADR) European agreement concerning the international carriage of dangerous goods by road
 (IMDG) International maritime dangerous goods code
 (IATA) International Air Transport Association
 (ICAO) International Civil Aviation Organisation
 (COD) Chemical Oxygen Demand
 (BOD5) 5 day biochemical oxygen demand
 (BCF) Bioconcentration factor
 (DL50) Lethal dose 50
 (CL50) Lethal concentration 50
 (EC50) Effective concentration 50
 (Log POW) Octanol-water partition coefficient
 (Koc) Partition coefficient of organic carbon

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the sheet only refers to this product, which should not be used for needs other than those specified.

End of Safety Data Sheet