

# SAFETY DATA SHEET

**Product:** CIMENTO ASFÁLTICO CAP 50/70

Revision: 01

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## 1 - IDENTIFICATION

GHS Product identifier:	CIMENTO ASFÁLTICO CAP 50/70
Other means of identification:	CAP71K
Recommended use of the chemical:	Use in road and construction applications; use in waterproofing dams, rivers, canals and reservoirs; use as a waterproofing agent on slabs and roofs, in electrical and acoustic insulation; use in the production of paints, adhesives and asphaltic greases; use in encapsulation of hazardous substances and radioactive waste; use in pipeline coatings.
Specific restrictions on use:	There are not known restrictions on use.
Supplier's details:	Acelen <b>Address:</b> ROD BA 523, KM 4, MATARIPE, CEP: 43900-000 - BA - Brasil. <b>Phone number:</b> (71) 3511-8000 / (11) 5225-8900
Emergency phone number:	EMERGENCIall: 0800 729 2756 / (11) 94759-7282 (Whatsapp) (24h)

## 2 - HAZARD IDENTIFICATION

Classification of the substance or mixture:	Serious eye damage/eye irritation - Category 2A.
Classification system adopted:	Globally Harmonized System of Classification and Labeling of Chemicals (GHS), United Nations.

### GHS label elements, including precautionary statements

Pictograms:



Signal word:	WARNING
Hazard statement(s):	H319 Causes serious eye irritation.
Precautionary statement(s):	<b>PREVENTION:</b> P264 + P265 Wash hands thoroughly after handling. Do not touch eyes. P280 Wear protective gloves, protective clothing, eye protection, face protection and hearing protection.  <b>RESPONSE TO EMERGENCY:</b> 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 + P317 If eye irritation persists: Get medical help.
Other hazards which do not result in classification:	Liquid oxygen associated with aluminum causes a violent explosion.

## 3 - COMPOSITION/INFORMATION ON INGREDIENTS

<b>SUBSTANCE</b>	Petroleum Substance Group: This category comprises a group of heavy residues from high temperature and vacuum distillation of petroleum; all residues have high percentages of carbon and hydrogen and a carbon chain with more than 25 atoms and a boiling point greater than 450°C.
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Common chemical name:	Asphalt.
Common name(s), synonym(s) of the substance:	Bitumen; asphalt oil.
CAS:	8052-42-4
Impurities and stabilizing additives which are themselves classified and which contribute to the classification of the substance:	Does not contain components that contribute to the hazard.

### 4 - FIRST-AID MEASURES

#### Description of necessary first-aid measures

Inhalation:	Remove the victim to a well-ventilated area and keep at rest in a position that does not impede breathing. If you feel unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Take this MSDS.
Skin:	Wash exposed skin with sufficient amount of water to remove material. Remove and isolate contaminated clothing and shoes. In case of skin irritation: Consult a doctor. Take this MSDS.
Eye:	Rinse thoroughly with water for several minutes. If you wear contact lenses, remove them if that's easy. Keep rinsing. If eye irritation persists: consult a physician. Take this MSDS.
Ingestion:	Do not induce vomiting. Never give anything by mouth to an unconscious person. Wash the victim's mouth with plenty of water. If you feel unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Take this MSDS.
Most important symptoms/effects, acute and delayed:	Causes serious eye irritation with redness, pain and tearing.
Indication of immediate medical attention and special treatment needed, if necessary:	Avoid contact with the product when helping the victim. If necessary, symptomatic treatment should include, above all, support measures such as correction of hydroelectrolytic and metabolic disturbances, in addition to respiratory assistance. In case of contact with the skin, do not rub the affected area.

### 5 - FIRE-FIGHTING MEASURES

Extinguishing media:	Appropriate: Compatible with all means of extinguishing. Inappropriate: water jet directly.
Specific hazards arising from the chemical:	Combustion of the chemical or its packaging can form irritating and toxic gases such as carbon monoxide and carbon dioxide.
Special protective actions for fire-fighters:	Use self-contained breathing apparatus (SCBA) operated in positive pressure mode and complete protective clothing. Containers and tanks involved in the fire should be cooled with water mist.

### 6 - ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:	Do not smoke. Avoid contact with the product. If necessary, use personal protective equipment as described in section 8.
For emergency	Isolate leakage from ignition sources preventively.

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responders:

Environmental precautions: Prevent spilled product from reaching waterways and sewers.

Methods and materials for containment and cleaning up: Collect the product with a clean shovel or other instrument that will not disperse the product. Place material in appropriate containers and remove to a safe place. For final disposal, proceed according to Section 13 of this MSDS.

There is no distinction between the actions of large and small leaks for this product.

### 7 - HANDLING AND STORAGE

#### Precautions for safe handling

Precautions for safe handling: Handle in a well ventilated area or with general system of ventilation/local exhaust. Avoid dust formation. Avoid contact with incompatible materials.

General hygiene: Wash hands and face thoroughly after handling and before eating, drinking, smoking or going to the bathroom.

#### Conditions for safe storage, including any incompatibilities

Technical measures for prevention of fire and explosion: The product is not expected to present a fire or explosion hazard.

Conditions for safe storage, including any incompatibilities: Store in a well ventilated place away from sunlight. Keep container closed. Keep away from high temperatures. Keep stored at room temperature not exceeding 35°C. It is not necessary addition of stabilizers and antioxidants to ensure the durability. This material may react dangerously with some incompatible materials as outlined in Section 10. Keep away from incompatible materials.

Packaging compatibilities: Similar to the original packaging.

Inadequate packaging materials: There are not known unsuitable material.

### 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Occupational exposure limit: The values below apply to workplaces.

OSHA - PEL - TWA: (29 CFR 1910.1002, Coal tar pitch volatiles; interpretation of term) (CFR);  
 NIOSH - REL - TWA: (Ca) (AA) (AC);  
 NIOSH - REL - Ceiling: 5 mg/m<sup>3</sup> [15-min];  
 ACGIH - TLV - TWA: 0.5 mg/m<sup>3</sup> (I).

I: Inhalable particulate matter;  
 Ca: Potential occupational carcinogen.  
 AA: See NIOSH REL Appendix A;  
 AC: See NIOSH REL Appendix C;  
 CFR: See mentioned item in OSHA CFR.

Biological limit: ACGIH - BEI: Determinant: 1-Hydroxypyrene in urine. Sampling time: End of shift at the end of the work week. Index: 2.5 µg/L<sup>\*\*\*</sup>. Notation: B. NOTE: H. Determinant: 3-Hydroxybenzo(a)pyrene in urine. Sampling time: End of shift at the end of the work week. Index: -. Notation: Nq. NOTE: H.

B: The determinant may be present in biological specimens collected from subjects who have not been occupationally exposed, at a concentration which could affect the interpretation of the results.

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Such background concentrations are incorporated in the BEI value;  
 Nq: Biological monitoring should be considered for this compound based on the review; however, a specific BEI could not be determined due to insufficient data.  
 H: The analytical method requires hydrolysis.  
 \*\*\*: Adjusted for the Pyrene to Benzo(a)pyrene ratio of the PAH mixture to which workers are exposed.

Other limits and values: Not established.

**Appropriate engineering controls:** Promote mechanical ventilation and direct exhaust system to the outside environment. These measures help reduce exposure to the product. Maintain atmospheric concentrations, of the constituents of the product, below the indicated occupational exposure limits. Maintain atmospheric concentrations of the constituents of the material below occupational exposure limits indicated.

**Individual protection measures, such as personal protective equipment (PPE)**

**Eye/face protection:** Wide-view glasses with splash protection.

**Skin protection:** Safety shoes and safety clothing to protect the whole body from chemical splashes. Protective gloves against chemicals such as PVC.

**Respiratory protection:** Use of respirator with filter against vapors and organic mists is recommended for average exposures above half the TLV-TWA. In cases where exposure exceeds 3 times the TLV-TWA value, use a self-contained, full facepiece, air-supplied respirator (SCBA) operated in positive pressure mode. Follow guidance from the Respiratory Protection Program (PPR), 4th ed. São Paulo: Fundacentro, 2016.

**Thermal hazards:** It does not present thermal hazards.

### 9 - PHYSICAL AND CHEMICAL PROPERTIES

**Aspect:** Solid.

**Color:** Black or dark.

**Odour:** Of tar.

**Melting point/freezing point:** 128 °C (262.4 °F) at 101.3 kPa.

**Boiling point or initial boiling point and boiling range:** > 343 °C (649.4 °F) at 101.325 kPa.

**Flammability:** Not available.

**Lower and upper explosion limit/flammability limit:** Not available.

**Flash point:** > 235 °C (455 °F) - Closed cup.

**Auto-ignition temperature:** > 400 °C (752 °F).

**Decomposition temperature:** Not available.

**pH:** Not applicable.

**Kinematic viscosity:** ≤ 1382 mm<sup>2</sup>/s at 60 °C (140 °F).

**Solubility(ies):** Insoluble in water.

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Partition coefficient n-octanol/water (log value):	Not available.	
Vapour pressure:	< 0.1 kPa at 20 °C (68 °F).	
Relative vapour density:	Not available.	
Density and/or relative density:	Relative density: 1.001 at 20 °C (68 °F).	
Particle characteristics:	Not available.	
Other information:	Dynamic viscosity: ≥ 112 cP (≥ 0.112 Pa.s) at 150 °C (302 °F).	

### 10 - STABILITY AND REACTIVITY

Reactivity:	Reactivity is not to be expected under normal conditions of temperature and pressure.
Chemical stability:	Stable product under normal conditions of temperature and pressure.
Possibility of hazardous reactions:	Naphtha, liquid oxygen and volatile solvents can form flammable or explosive mixtures.
Conditions to avoid:	Elevated temperatures. Ignition sources. Contact with incompatible materials.
Incompatible material:	Strong oxidizing agents.
Hazardous decomposition products:	When heated, it releases irritating and acrid fumes. When heated, it can release hydrogen sulfide.

### 11 - TOXICOLOGICAL INFORMATION

Acute toxicity:	It is not expected to be acutely toxic.
Skin corrosion/irritation:	Not classified for skin corrosion/irritation. Non-irritating to rabbit skin.
Serious eye damage/irritation:	Causes serious eye irritation with redness, pain and tearing.
Respiratory or skin sensitization:	Not classified for skin sensitization. Not sensitizing to guinea pig skin. It is not expected to cause respiratory sensitization.
Germ cell mutagenicity:	It is not expected to show mutagenicity in germ cells.
Carcinogenicity:	Not classified for carcinogenicity. Not classifiable as a human carcinogen (group a4 - acgih, 2016).
Reproductive toxicity:	It is not expected to be reproductively toxic.
STOT - Single exposure:	It is not expected to exhibit specific target organ toxicity by single exposure.
STOT - Repeated exposure:	It is not expected to exhibit specific target organ toxicity on repeated exposure.
Aspiration hazard:	It is not expected to present an aspiration hazard.

### 12 - ECOLOGICAL INFORMATION

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<p><b>Toxicity:</b> It is not expected to be ecotoxic.</p> <p><b>Persistence and degradability:</b> Due to the lack of data, it is expected to be persistent and not rapidly degraded.</p> <p><b>Bioaccumulative potential:</b> Due to the lack of data, bioaccumulative potential in aquatic organisms is not expected.</p> <p><b>Mobility in soil:</b> Not determined.</p> <p><b>Other adverse effects:</b> The release of large amounts of product can cause undesirable environmental effects, such as the reduction of oxygen availability in aquatic environments due to the formation of an oily layer on the surface, coating and consequent suffocation of animals.</p>		

### 13 - DISPOSAL CONSIDERATIONS

#### Disposal methods

Must be disposed of as hazardous waste in compliance with local regulations. The treatment and disposal should be evaluated for each specific product.  
 Keep the product remains in its original and properly closed containers. Disposal should be performed as established for the product.

### 14 - TRANSPORT INFORMATION

<b>Road:</b>	UN - United Nations: Model Regulations: • Recommendations on the Transport of Dangerous Goods.
UN number:	3257
Proper shipping name:	ELEVATED TEMPERATURE LIQUID, N.O.S. (Asphalt)
Primary risk class or division:	9
Subsidiary risk class or division:	NA
Packing group:	III
Environmental hazards:	The product is not considered dangerous for the environment for land transport.
<b>Railway regulations:</b>	COTIF - Convention concerning International Carriage by Rail: • Appendix C: RID - Regulations concerning the International Carriage of Dangerous Goods by Rail.
UN number:	3257
Proper shipping name:	ELEVATED TEMPERATURE LIQUID, N.O.S. (Asphalt)
Primary risk class or division:	9
Subsidiary risk class or division:	NA
Packing group:	III
Environmental hazards:	The product is not considered dangerous for the environment in rail transport.
<b>Sea:</b>	IMO - International Maritime Organization: • IMDG Code - International Maritime Dangerous Goods Code.
UN number:	3257

In accordance with Globally Harmonized System of Classification and Labelling of Chemicals (GHS)- Chapter 1.5 and Annex 4

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Proper shipping name:	ELEVATED TEMPERATURE LIQUID, N.O.S. (Asphalt)
Primary risk class or division:	9
Subsidiary risk class or division:	NA
Packing group:	III
Environmental hazards:	It's not considered a marine pollutant for transportation.
EmS:	F-A, <u>S</u> -P
<b>Air:</b>	IATA - International Air Transport Association: • DGR - Dangerous Goods Regulation.
UN number:	FORBIDDEN FOR AIR TRANSPORT
Special precautions for user:	Not applicable.
Maritime transport in bulk according to IMO instruments:	Consult regulations: <ul style="list-style-type: none"> <li>• International Maritime Organization: MARPOL: Articles, protocols, annexes, unified interpretations of the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto, consolidated edition. IMO, London, 2006;</li> <li>• International Maritime Organization: IBC code: International code for the construction and equipment of shipping carrying dangerous chemicals in bulk: With Standards and guidelines relevant to the code. IMO, London, 2007.</li> </ul>

### 15 - REGULATORY INFORMATION

Federal Decree No. 10,088, of November 5, 2019;  
 ABNT-NBR 14725 Standard;  
 Regulatory Norm nº 26 (Safety signs), from the Ministry of Labor and Social Security.

### 16 - OTHER INFORMATION

This SDS was prepared based on current knowledge about the proper product handling and under normal conditions of use, in accordance with the application specified on the packaging. Any other use of the product involving their combination with other materials, and use various forms of those indicated, are the responsibility of the user. Warns that the handling of any chemical substance requires the prior knowledge of its hazards for the user. In the workplace it is for the user company's product promotes training of its collaborators about the possible risks arising from exposure to the chemical.

#### Change control:

Version	Manufacture date	Changes
01	03/22/2023	Elaboration

#### Abbreviations:

ACGIH - American Conference of Governmental Industrial Hygienists;  
 BEI - Biological Exposure Index;  
 CAS - Chemical Abstracts Service;

In accordance with Globally Harmonized System of  
Classification and Labelling of Chemicals (GHS)- Chapter 1.5  
and Annex 4

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Ceiling - The concentration that should not be exceeded during any part of the working exposure.

EC - European Community;

EEC - European Economic Community;

IARC - International Agency for Research on Cancer;

NIOSH - National Institute for Occupational Safety and Health;

OSHA - Occupational Safety & Health Administration;

PEL - Permissible Exposure Limit;

REL - Recommended Exposure Limit;

TLV - Threshold Limit Value;

TWA - Time Weighted Average;

UN - United Nations.

### Bibliographic references:

ACGIH - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIALS HYGIENISTS. TLVs® and BEIs®: Based on the Documentation of the Threshold Limit Values (TLVs®) for Chemical Substances and Physical Agents & Biological Exposure Indices (BEIs®). Cincinnati-USA, 2023.

ECHA - EUROPEAN CHEMICAL AGENCY. Available at: < <http://echa.europa.eu/web/guest> >. Access in: Mar. 2023.

GESTIS - SUBSTANCE DATABASE. Available at: < [http://gestis-en.itrust.de/nxt/gateway.dll/gestis\\_en/000000.xml?f=templates\\$fn=default.htm\\$3.0](http://gestis-en.itrust.de/nxt/gateway.dll/gestis_en/000000.xml?f=templates$fn=default.htm$3.0) >. Access in: Mar. 2023.

GHS - GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS. 10th rev. ed. New York and Geneva: United Nations, 2023.

HSDB - HAZARDOUS SUBSTANCES DATA BANK. Available at: <http://pubchem.ncbi.nlm.nih.gov/>. Access in: Mar. 2023.

IARC - INTERNATIONAL AGENCY FOR RESEARCH ON CANCER. Available at: <http://monographs.iarc.fr/ENG/Classification/index.php>. Access in: Mar. 2023.

IPCS - INTERNATIONAL PROGRAMME ON CHEMICAL SAFETY - INCHEM. Available at: <http://www.inchem.org/>. Access in: Mar. 2023.

IUCLID - INTERNATIONAL UNIFORM CHEMICAL INFORMATION DATABASE. [S.1.]: European chemical Bureau. Available at: <http://ecb.jrc.ec.europa.eu>. Access in: Mar. 2023.

NIOSH - NATIONAL INSTITUTE OF OCCUPATIONAL AND SAFETY. International Chemical Safety Cards. Available at: <http://www.cdc.gov/niosh/>. Access in: Mar. 2023.

REACH - REGISTRATION, EVALUATION, AUTHORIZATION AND RESTRICTION OF CHEMICALS. Commission Regulation (EC) No 1272/2008 of December 2008 amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals. Available at: < <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2008:353:0001:1355:en:PDF> >. Access in: Mar. 2023.

TOXNET - TOXICOLOGY DATA NETWORKING. ChemIDplus Lite. Available at: <http://chem.sis.nlm.nih.gov/>. Access in: Mar. 2023.