

## SAFETY DATA SHEET

**Product:** SL300 Vulk Cement Multipurpose

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### SECTION 1: IDENTIFICATION

GHS product identifier:	SL300 Vulk Cement Multipurpose
Other means of identification:	475006
Recommended use of the chemical and restrictions on use:	In the process of retreading tires using the autoclave and hot methods, in repairing pits, in applying hot patches and in repairing inner tubes using the hot method. <b>Restrictions on use:</b> This product should not be used for applications other than those recommended in this section. For more information, consult the product's technical data sheet.
Supplier's details:	<b>BORRACHAS VIPAL S.A</b> <b>Address:</b> Rua Buarque de Macedo, 365, CEP: 95320-000 - Nova Prata - RS - Brasil. <b>Phone number:</b> (54) 3242-3800 <b>E-mail:</b> vipal@vipal.com.br
Emergency phone number:	(54) 3242-3800

### SECTION 2: HAZARD IDENTIFICATION

Classification of the substance or mixture:	Flammable Liquids - Category 2; Skin Corrosion/Irritation - Category 2; Specific Target Organ Toxicity – Single Exposure - Category 3 - Narcotic; Hazardous to the Aquatic Environment - Acute Hazard - Category 2; Hazardous to the Aquatic Environment - Chronic Hazard - Category 2.
Classification system adopted:	Globally Harmonized System of Classification and Labeling of Chemicals (GHS), United Nations.

#### GHS label elements, including precautionary statements

Pictograms:



Signal word: DANGER

Hazard statement(s):  
H225 Highly flammable liquid and vapour.  
H315 Causes skin irritation.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary statement(s):  
**PREVENTION:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
P240 Ground and bond container and receiving equipment.  
P241 Use explosion-proof electrical, ventilating and lighting equipment.  
P242 Use non-sparking tools.  
P243 Take action to prevent static discharges.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash hands thoroughly after handling.  
P271 Use only outdoors or in a with adequate ventilation.  
P273 Avoid release to the environment.

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P280 Wear protective gloves, protective clothing, eye protection, face protection and hearing protection.

**RESPONSE TO EMERGENCY:**

P302 + P352 IF ON SKIN: Wash with plenty of water.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water [or shower].

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P319 Get medical help if you feel unwell.

P321 Specific treatment.

P332 + P317 If skin irritation occurs: Get medical help.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

**STORAGE:**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

**DISPOSITION:**

P501 Dispose of contents and container in accordance with local regulations.

Other hazards which do not result in classification: The product has no other hazards.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****MIXTURE**

Components contributing to the hazard:

Product identifier	CAS/EC	Concentration range (%)
Naphtha (petroleum), full-range straight-run	64741-42-0 265-042-6	48.80 - 73.20
Zinc oxide	1314-13-2 215-222-5	0.51 - 0.77
Sulfur	7704-34-9 231-722-6	0.15 - 0.23
1,4-benzenodiamina, n- (1,3-dimetilbutil) -n'-fenil-	793-24-8 212-344-0	0.10 - 0.16

**SECTION 4: FIRST-AID MEASURES****Description of necessary first-aid measures**

**Inhalation:** Remove victim to fresh air and keep in a position that does not obstruct breathing. If you feel unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this document.

**Skin:** Wash exposed skin with sufficient amount of water to remove the product. Remove and isolate contaminated clothing and shoes. In case of skin irritation: Consult a doctor. Bring this document.

**Eye:** Rinse carefully with water for several minutes. If wearing contact lenses, remove them if it is easy and keep rinsing. If eye irritation persists: consult a doctor. Bring this document.

**Ingestion:** Wash the victim's mouth with plenty of water. Never give anything by mouth to an unconscious person. If you feel unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring

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	this document.
Most important symptoms/effects, acute and delayed:	Causes skin irritation with redness, pain and dryness. May cause drowsiness or dizziness, may cause dizziness and nausea.
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, supportive measures such as correction of hydro electrolytic and metabolic disorders and respiratory assistance. In case of skin contact, do not rub the affected area.

**SECTION 5: FIRE-FIGHTING MEASURES**

Extinguishing media:	Appropriate: Compatible with all means of extinguishing.
Specific hazards arising from the chemical:	Combustion of the material or its packaging can form irritating and toxic gases such as carbon monoxide and dioxide. Very dangerous when exposed to excessive heat or other sources of ignition such as: sparks, open flames or flames from matches and cigarettes, welding operations, pilot lights and electric motors. May build up static charge by flow or agitation. Vapors from heated product can ignite by static discharge. Vapors are denser than air and tend to accumulate in low-lying or confined areas such as storm drains and basements. It can travel great distances causing the flame to retreat or new fires in both open and confined environments. Containers may explode if heated.
Special protective actions for fire-fighters:	If the load is involved in fire, isolate and evacuate the area to a minimum radius of 800 meters. Wear positive pressure self-contained breathing apparatus (SCBA) and full protective clothing. Containers and tanks involved in the fire must be cooled with water mist.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel:	Isolate the leakage from sources of ignition. Keep unauthorized persons out of the area and away from windows. Stop the leakage if it can be done without risk. Prevent sparks or flames. Do not smoke. Do not touch damaged containers or spilled product without proper clothing. Avoid exposure to the product. Stay in a safe place, with the wind at your back. Use personal protective equipment as described in section 8.
For emergency responders:	Wear complete PPE with safety glasses, safety gloves, suitable protective clothing and closed shoes. In case of leakage, where exposure is high, it is recommended to use a suitable respiratory protection mask.
Environmental precautions:	Avoid that the spilled product reaches waterways or sewage system.
Methods and materials for containment and cleaning up:	Use water mist to reduce the dispersion of vapors. Use natural or spill containment barriers. Collect spilled products and place them in appropriate containers. Adsorb the remaining product with dry sand, earth, vermiculite, or any inert product. Place the adsorbed product in proper containers and remove it to a safe place. Use non-sparking tools to pick up the product. All equipment used must not be electrically grounded. For final disposal, proceed according to Section 13 of this document. Large spill: confine the liquid into a dike away from the spills for later and proper disposition. Water mist can be used to reduce of vapors, but it wont prevent ignition in closed environments.

**SECTION 7: HANDLING AND STORAGE****Precautions for safe handling**

Precautions for safe	Handle in a well ventilated area or with general system of ventilation/local exhaust. Avoid vapors and
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**handling:** mists formation. Handling the product can result in electrostatic charge buildup. All ignition sources must be extinguished from areas during use. Use proper grounding procedures. Use personal protective equipment as described in section 8. Avoid contact with incompatible materials.

**General hygiene:** Wash hands and face thoroughly after handling and before eating, drinking, smoking, or using the toilet. Contaminated clothing should be changed and washed before reuse. Remove contaminated clothing and protective equipment before entering eating areas.

### Conditions for safe storage, including any incompatibilities

**Technical measures for prevention of fire and explosion:** Keep away from heat, sparks, open flame, and hot surfaces. Do not smoke. Keep the container tightly closed. Ground the container vessel and product receiver during transfers. Only use non-sparking tools. Avoid the accumulation of electrostatic charges. Use explosion-proof electrical, ventilation, and lighting equipment.

**Conditions for safe storage, including any incompatibilities:** Store in a dry, well-ventilated place away from sunlight. Keep the container closed. 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.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Occupational exposure limit:** The values below apply to workplaces.

- Carbon black:

OSHA - PEL - TWA: 3.5 mg/m<sup>3</sup> (29 CFR 1910.1000 Table Z-1) (CFR);  
NIOSH - REL - TWA: 3.5 mg/m<sup>3</sup> (CB); 0.1 mg PAHs/m<sup>3</sup> (Ca) (AA) (AC);  
ACGIH - TLV - TWA: 3 mg/m<sup>3</sup> (I);

- Zinc oxide:

OSHA - PEL - TWA: 5 mg/m<sup>3</sup> (29 CFR 1910.1000 Table Z-1) (CFR);  
NIOSH - REL - TWA: 5 mg/m<sup>3</sup> (TD) (FM);  
NIOSH - REL - STEL: 10 mg/m<sup>3</sup> (FM);  
NIOSH - REL - Ceiling: 15 mg/m<sup>3</sup> (TD);  
ACGIH - TLV - TWA: 2 mg/m<sup>3</sup> (R);  
ACGIH - TLV - STEL: 10 mg/m<sup>3</sup> (R);

- Stearic acid:

ACGIH - TLV - TWA: 10 mg/m<sup>3</sup> (I); 3 mg/m<sup>3</sup> (R).

I: Inhalable particulate matter;

Ca: Potential occupational carcinogen.

CB: without PAHs; when PAHs are present, NIOSH considers carbon black to be a potential occupational carcinogen.

AA: See NIOSH REL Appendix A;

AC: See NIOSH REL Appendix C;

CFR: See mentioned item in OSHA CFR;

TD: Total dust;

R: Respirable particulate matter;

FM: Fumes.

**Biological limit:**

- Carbon black:

ACGIH - BEI: Determinant: 1-Hydroxypyrene in urine. Sampling time: End of shift at the end of the

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workweek. Index: 2.5 ug/L, adjusted for the ratio of pyrene to benzo(a)pyrene in the polycyclic aromatic hydrocarbon (PAH) mixture to which workers are exposed. Notation: B. NOTE: H. Determinant: 3-Hydroxybenzo(a)pyrene in urine. Sampling time: End of shift at the end of the workweek. Notation: Nq.

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. 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.

Other limits and values: - Carbon black:  
IDLH (NIOSH 2011): 1750 mg/m<sup>3</sup>.

Appropriate engineering controls: A risk assessment is recommended to define the engineering control measures necessary to eliminate or minimize the risk. These measures help to reduce exposure to the product. 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: Fully enclosed protective goggles.

Skin protection: Impervious clothing or protective clothing chemically resistant to the product. Nitrile gloves.

Respiratory protection: Semifacial mask with filter for organic vapors.

Thermal hazards: It does not present thermal hazards.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid, viscous.

Colour: Black.

Odour: Characteristic.

Melting point/freezing point: Not available.

Boiling point or initial boiling point and boiling range: Not available.

Flammability: Flammable.

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

Flash point: -35 °C (-31 °F) - Closed cup.

Auto-ignition temperature: - Naphtha (petroleum), full-range straight-run:  
280 to 470 °C (536 to 878 °F).

Decomposition temperature: Not available.

pH: Not available.

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Kinematic viscosity:	Not available.
Solubility:	Immiscible in water.
Partition coefficient n-octanol/water (log value):	- <u>Naphtha (petroleum), full-range straight-run:</u> log $K_{ow}$ : 1.99 to 18.02 (calculated).
Vapour pressure:	- <u>Naphtha (petroleum), full-range straight-run:</u> ≤ 240 kPa at 37.8 °C (100.04 °F).
Density and/or relative density:	Absolute density: 0.7 to 0.74 g/cm <sup>3</sup> at 23 °C (73.4 °F).
Relative vapour density:	Not available.
Particle characteristics:	Not applicable.
Other information:	Dynamic viscosity: 420 to 520 cP (0.42 to 0.52 Pa.s) at 23 °C (73.4 °F).

**SECTION 10: STABILITY AND REACTIVITY**

Reactivity:	Reactivity is not to be expected under normal conditions of temperature and pressure.
Chemical stability:	Stable under normal temperature and pressure conditions.
Possibility of hazardous reactions:	- <u>Zinc oxide:</u> Reacts violently with oils, aluminum powder and chlorinated rubber. Risk of explosion on contact with magnesium. - <u>Sulfur:</u> Reacts with oxidizing agents with risk of explosion. Molten sulfur reacts with hydrocarbons to form toxic and flammable gases such as carbon disulfide and hydrogen sulfide.
Conditions to avoid:	High temperatures. Ignition sources. Contact with incompatible materials.
Incompatible materials:	Acids, aluminum, ammonia, carbon, carbon monoxide, chlorinated rubber, hydrocarbons, hydrogen, magnesium, metals, oils, oxidizing agents, phosphorus and strong oxidizers.
Hazardous decomposition products:	No dangerous decomposition products are known.

**SECTION 11: TOXICOLOGICAL INFORMATION**

Acute toxicity:	Product not classified as acute toxic. ATEmix Vapours (4h): > 20 mg/L. ATEmix Dusts and mists (4h): > 5 mg/L. ATEmix Oral: > 5000 mg/kg. ATEmix Dermal: > 5000 mg/kg.
Skin corrosion/irritation:	Causes skin irritation with redness, pain and dryness.
Serious eye damage/irritation:	It is not expected to cause eye irritation.
Respiratory or skin sensitization:	It is not expected to present respiratory or skin sensitization.  The ingredient 1,4-benzenodiamina, n- (1,3-dimethylbutyl) -n'-fenil-, classified as skin sensitizer - category 1, is in concentration < 1% and does not contribute to this classification of the product.
Germ cell mutagenicity:	It is not expected to show mutagenicity in germ cells.

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Carcinogenicity:	It is not expected to be carcinogenic.
Reproductive toxicity:	It is not expected to be reproductively toxic.
STOT - Single exposure:	May cause drowsiness or dizziness, may cause dizziness and nausea.
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.

### SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:	<p>Toxic to aquatic life with long lasting effects.</p> <p>Information regarding to:</p> <ul style="list-style-type: none"> <li>- <u>Naphtha (petroleum), full-range straight-run:</u> NOEC (<i>Daphnia magna</i>, 21 d): &gt; 1 mg/L; NOEC (<i>Pseudokirchneriella subcapitata</i>, 72 h): 0.5 mg/L; ErC<sub>50</sub> (<i>Pseudokirchneriella subcapitata</i>, 72 h): 3.1 mg/L; EC<sub>50</sub> (<i>Daphnia magna</i>, 48 h): 4.5 mg/L; LC<sub>50</sub> (<i>Pimephales promelas</i>, 96 h): 8.2 mg/L.</li> <li>- <u>Zinc oxide:</u> LC<sub>50</sub> (<i>Pseudokirchneriella subcapitata</i>, 72 h): 0.046 mg/L; NOEC (<i>Oncorhynchus mykiss</i>, 30d): 0.058 mg/L; NOEC (<i>Daphnia magna</i>, 21d): 0.058 mg/L; EC<sub>50</sub> (<i>Ceriodaphnia dubia</i>, 48 h): 0.147 - 0.228 mg/L; LC<sub>50</sub> (<i>Danio rerio</i>, 96 h): 0.330 - 0.760 mg/L.</li> <li>- <u>1,4-benzenodiamina, n- (1,3-dimetilbutil) -n'-fenil-:</u> LC<sub>50</sub> (<i>Oryzias latipes</i>, 96 h): 0.028 mg/L; EC<sub>50</sub> (<i>Daphnia magna</i>, 48 h): 0.23 mg/L; ErC<sub>50</sub> (Green algae, 72 h): 2.6 mg/L.</li> </ul>
Persistence and degradability:	It is not expected to present persistence and degradability.
Bioaccumulative potential:	<p>Presents high bioacumulative potencial in aquatic organisms.</p> <p>Informational regarding to:</p> <ul style="list-style-type: none"> <li>- <u>Naphtha (petroleum), full-range straight-run:</u> BCF: 0.4 to 6280 log <i>K</i><sub>ow</sub>: 1.99 to 18.02 (calculated)</li> <li>- <u>1,4-benzenodiamina, n- (1,3-dimetilbutil) -n'-fenil-:</u> log <i>K</i><sub>ow</sub>: 4.68.</li> </ul>
Mobility in soil:	Not determined.
Other adverse effects:	No other environmental effects known.

### SECTION 13: DISPOSAL CONSIDERATIONS

#### Disposal methods

Must be disposed of as 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

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product.

### SECTION 14: TRANSPORT INFORMATION

**Road:** UN - United Nations: Model Regulations:  
• Recommendations on the Transport of Dangerous Goods.

UN number: 1133

UN proper shipping name: ADHESIVES

Transport hazard class(es): 3

Packing group: II

Environmental hazards: The product is considered dangerous for the environment for land transport.

**Railway regulations:** COTIF - Convention concerning International Carriage by Rail:  
• Appendix C: RID - Regulations concerning the International Carriage of Dangerous Goods by Rail.

UN number: 1133

UN proper shipping name: ADHESIVES

Transport hazard class(es): 3

Packing group: II

Environmental hazards: The product is considered dangerous for the environment in rail transport.

**Sea:** IMO - International Maritime Organization:  
• IMDG Code - International Maritime Dangerous Goods Code.

UN number: 1133

UN proper shipping name: ADHESIVES

Transport hazard class(es): 3

Packing group: II

Environmental hazards: The product is considered a marine pollutant.

EmS: F-E,S-D

**Air:** IATA - International Air Transport Association:  
• DGR - Dangerous Goods Regulation.

UN number: 1133

UN proper shipping name: ADHESIVES

Transport hazard class(es): 3

Packing group: II

Environmental hazards: The product is considered dangerous for the environment for air transport.



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Special precautions for user: Not applicable.

Transport in bulk according to IMO instruments:

Consult regulations:

- 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;
- 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.

### SECTION 15: REGULATORY INFORMATION

#### Safety, health and environmental regulations specific for the product in question

Convention concerning Safety in the use of Chemicals at Work (Convention 170) - International Labour Organization, 1990.

**TSCA:** We certify that all the components of this product are listed on the TSCA Inventory Active.

**Prop.65:** ⚠️ **WARNING:** This product can expose you to Carbon black, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### SECTION 16: OTHER INFORMATION

This document 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 products, 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
00	03/03/2025	Elaboration

#### Abbreviations:

ACGIH - American Conference of Governmental Industrial Hygienists;  
 ATEmix - Acute Toxicity Estimate of the mixture;  
 BCF - Bioconcentration factor;  
 BEI - Biological Exposure Index;  
 CAS - Chemical Abstracts Service;  
 Ceiling - The concentration that should not be exceeded during any part of the working exposure;  
 EC<sub>50</sub>- Effective concentration of substance that causes 50 % of the maximum response;  
 ErC<sub>50</sub>- Effective concentration that results in a 50% reduction in the growth rate;  
 IARC - International Agency for Research on Cancer;  
 IDLH - Immediately Dangerous to Life or Health;  
 K<sub>ow</sub>- Octanol-water partition coefficient;  
 LC<sub>50</sub>- Lethal Concentration 50%;  
 NIOSH - National Institute for Occupational Safety and Health;  
 NOEC - No Observed Effect Concentration;  
 OSHA - Occupational Safety & Health Administration;  
 PEL - Permissible Exposure Limit;

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

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REL - Recommended Exposure Limit;  
STEL - Short Term 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, 2024.

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